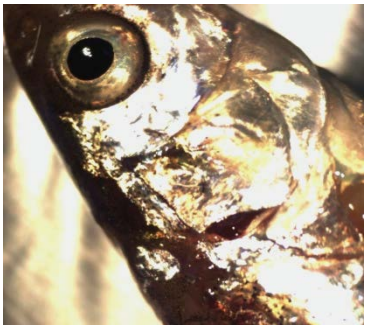
U.S. Fish & Wildlife Service

Rio Grande Silvery Minnow Health Study



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Report prepared by:

U.S. Fish and Wildlife Service
New Mexico Ecological Services Field Office
2105 Osuna Road NE
Albuquerque, New Mexico 87113
http://www.fws.gov/southwest/es/NewMexico/

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The findings, opinions, conclusions, and recommendations expressed in this report are those of the authors and have not been formally disseminated by the U.S. Department of the Interior, Fish and Wildlife Service, Bureau of Reclamation, or U.S. Geological Survey, and should not be construed to represent any agency determination or policy. Reference to any commercial product, process, or service by trade name, manufacturer, or otherwise, does not constitute endorsement by the United States Government.

Cover photography (beginning top left): 1) "Examination of fish health"; 2) "Rio Grande silvery minnow with shortened opercula"; 3) "Deployment of water quality monitoring equipment in the Rio Grande"; and 4) "Examination of fish for parasites" by U. S. Fish and Wildlife Service/J. Lusk (photographs 1, 3, and 4) and A. Davis (photograph 2).

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PROJECT SUMMARY

It is widely known that the health of fish can be adversely affected by exposure to water pollution. In 2005, the Middle Rio Grande Endangered Species Act Collaborative Program (Collaborative Program) requested proposals for monitoring the health conditions of Rio Grande silvery minnow (*Hybognathus amarus*; RGSM) in the mainstem of the Middle Rio Grande. In response, the U.S. Fish and Wildlife Service (Service) designed the RGSM Health Study to monitor and characterize the health conditions of RGSM in the MRG to provide baseline data on diseases and parasites, and document external and internal anomalies and pathologies in fish collected throughout the year. The Collaborative Program also requested that monitoring of RGSM health conditions be conducted in conjunction with a water-quality monitoring program to better link results to possible causes. In particular, the New Mexico Environment Department (2009) implemented (and reported separately) a companion water quality study that overlapped some of the same sites sampled during this RGSM Health Study.

Various agencies participated in the RGSM Health Study including the New Mexico Environment Department (NMED); the University of New Mexico, Museum of Southwestern Biology (Museum); the U.S. Geological Survey (USGS), New Mexico Ecological Services Field Office, and Dexter Fish Health Unit. We conducted the RGSM Health Study from July 2006 to July 2008 (Year 1 and Year 2). Rio Grande silvery minnows (*Hybognathus amarus*) were collected nearly every three months from six sites in the Rio Grande from Bernalillo to San Antonio, New Mexico. We used a suite of standard methods of observation of fish health conditions during necropsy to determine total length, mass, organ condition, the number and type of lesions and anomalies, the number and type of parasites and pathogens, and we analyzed their tissues for a variety of chemicals and genetic conditions. We also measured surface water quality parameters (i.e., dissolved oxygen (DO), oxygen saturation, temperature, pH, specific conductivity).

There are three chapters of this RGSM Health Study Report with three additional reports included as appendices, which describe the different activities undertaken during this RGSM Health Study. Chapter 1 includes introductory materials, selection of study sites, methods of fish and water quality data collection, results, and discussion including the use of oxygen measures to evaluate gross primary productivity (GPP) and ecosystem respiration (ER). Chapter 2 includes the Fish Health Assessment methods, necropsy results, and discussion. Chapter 3 includes the analytical methods, results, and discussion of chemicals in RGSM tissues. Literature cited and data appendices (Appendices 1A-1C, 2A-2K, and 3A-3F) are provided with the first three chapters. Some materials were made available online at http://www.fws.gov/southwest/es/newmexico/EC_reports.cfm. Appendix 4 includes the Fish Histology and Histopathology Report by Papoulias et al. (2009). Appendix 5 includes the Fish Pathogen Assessment Report that included methods of RGSM pathogen data collection, results, and discussion by Woodland (2012). Appendix 6

includes the Genetic Evaluation Report by Osborne and Turner (2009). Each chapter or appendix report also refers to their own figures, tables, and data appendices. We measured individual fish and dissected them to observe their external and internal conditions (Chapter 2). We measured total length and weight and found fish collected in Year 1 were significantly larger than those collected in Year 2 were. We found a significant relationship between fish length and weight with average annual water temperature. We observed shortened opercula, gill pathologies, liver anomalies, and degenerated kidney tubules as anomalies with the greatest frequency and these anomalies were observed at a greater frequency in Year 2 than in Year 1. Changes in water temperature, nutrition, or discharge appeared to be the most likely factors affecting skeletal development and therefore shortened opercula in silvery minnows. Mean Feeding Index was significantly lower in Year 1 than in Year 2, suggesting that food was more readily available during Year 1. The percent of fish with anomalies or pathological lesions tended to increase from upstream to downstream. Generally, the health of the Rio Grande silvery minnows was moderately affected, indicative of chronic stress, deteriorated from Year 1 to Year 2, from upstream to downstream, and during the summer (as measured during July) (Chapter 2, Appendix 4, and Appendix 5).

Additionally, we collected samples of spleen, gonad, and other tissues for histopathological examination and hematology (Appendix 4). All silvery minnows observed were experiencing chronic stress likely associated with poor water or sediment quality as evidenced by a suite of health indicators. Those silvery minnows collected in July tended to be the least healthy, having more macrophage aggregates, granulomas, lower liver glycogen and increased spleen size with fewer red blood cells. Gill abnormalities (e.g., discoloration, fraying, clubbing, fused lamellae, embolism, and parasites) were commonly observed in over 96 percent of the silvery minnow gills and could be related to bacterial or parasite infestations, or elevated copper.

Female gonads were observed in 58 percent of samples, but percentage of females was not significantly different by sample year, site, or month. However, there was a significant trend of more females in samples collected sites downstream than upstream. We observed some atretic oocytes in females (i.e., ectopic oocytes in liver and kidney tissues); however, no oocytes were positively detected in the testes of males evaluated.

The majorities of livers were low to moderate in glycogen content, and were lowest in silvery minnows collected in July. While gross liver abnormalities were high (e.g., discolored or mushy liver), liver pathologies (e.g., edema, high fat content, pigments and macrophages, granulomas, parasites, etc.) were low. Granulomas and macrophage aggregates were more prevalent in July 2008 samples and hemosiderin and melanin pigments were more common in livers collected in Year 2.

After necropsy, the silvery minnow carcasses were chemically analyzed for a variety of metals, hydrocarbons, organochlorine compounds, stable isotopes, and fire

retardant residues (Chapter 3). Generally, organic chemical concentrations in silvery minnows were low. However, semivolatile hydrocarbons, especially naphthalene and other PAHs, were moderately elevated in silvery minnows. Several organochlorine pesticides, PCBs, and BDEs (flame-retardants), were also elevated in silvery minnows collected from Site 3 and Site 4. The bioaccumulation of chlorinated and brominated organic chemicals at these sites may have been related to silvery minnow size, lipid content, or potential site or dietary differences. Concentrations of inorganic contaminants in Rio Grande silvery minnow were similar to those in other fish species collected from the Rio Grande and were generally low, with the exception of aluminum, copper, nickel, vanadium, and zinc. Additional research was recommended for those contaminants in fish that were elevated.

We measured water quality parameters (e.g., dissolved oxygen, temperature, pH, and conductance) as well as used rates of oxygen change to estimate gross primary productivity and ecosystem respiration (Chapter 1). Average gross primary productivity rates ranged widely, but were generally higher at upstream sites and during summer. Low oxygen conditions were identified and were most likely associated with oxygen demanding substances in sediment. Increasing gross primary productivity and thereby increasing oxygen content will reduce oxygen demand and ecosystem respiration. Improvements in these conditions would likely result in increased populations of fish, increased species richness of benthic invertebrates, and decreased chronic stress reported in Rio Grande silvery minnows.

In a companion study, the New Mexico Environment Department (NMED 2009) evaluated the chemical quality of water, sediment and fish in the Middle Rio Grande. NMED evaluated chemical data in the water column to evaluate exceedances of New Mexico Water Quality Control Commission-approved water quality standards. The NMED (2009) concluded that very few water quality standards impairments were found. The NMED (2009) also evaluated water, sediment and fish tissue data to identify additional water quality issues of concern (i.e., issues that were not considered to exceed New Mexico water quality standards) and identified aluminum, copper, chromium, ammonia, low oxygen, elevated pH in water, zinc and DDT in fish tissues, and several semivolatile compounds (PAHs) in sediment as elevated. The Rio Grande Silvery Minnow Health Study findings were consistent with the NMED (2009) study.

In summary, the health of the Rio Grande silvery minnow was moderately impaired. The silvery minnows had skeletal deformities (i.e., shortened opercula) that suggested a causal association with factors of water temperature, nutrition, and/or discharge. Silvery minnows were generally healthier collected from upstream than from downstream sites. When water quality conditions deteriorated, including higher temperatures, lower oxygen content, and with increased pathogen burdens as were measured during July, the health of silvery minnows also generally declined. Several contaminants were prevalent in fish including hydrocarbons such as PAHs, and certain metals, including aluminum and zinc.

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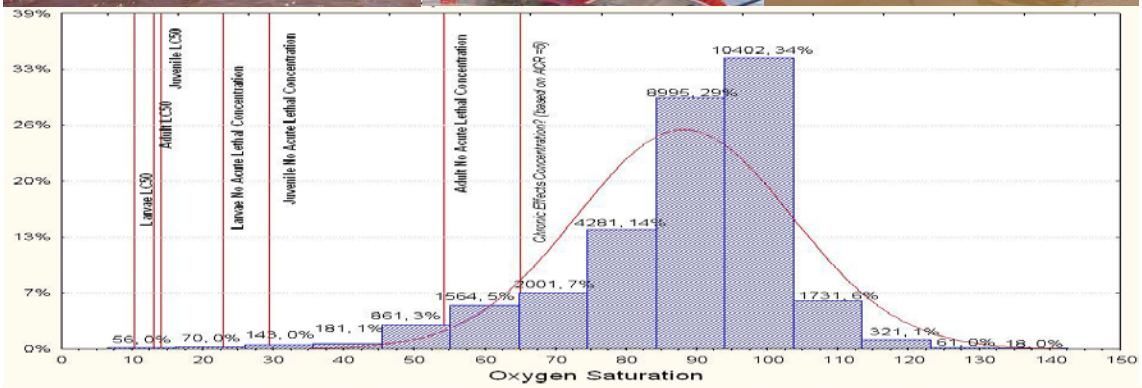
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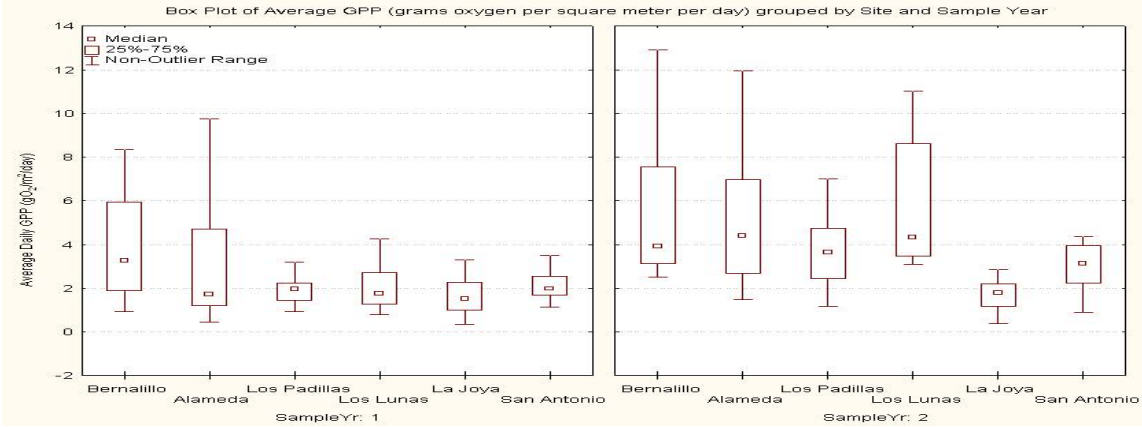
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*Available online at: http://www.fws.gov/southwest/es/newmexico/EC_reports.cfm

Chapter 1: Rio Grande Silvery Minnow Health Study Introduction with Results of Water Quality Parameters Measured and Derivation of Gross Primary Productivity and Ecosystem Respiration in the Middle Rio Grande, New Mexico (2006-2008)







Prepared by: Joel D. Lusk
U.S. Fish and Wildlife Service
New Mexico Ecological Services Field Office
2105 Osuna Road NE, Albuquerque, New Mexico 87113
www.fws.gov/southwest/es/newmexico

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INTRODUCTION

Rationale and Purpose of Rio Grande Silvery Minnow Health Study

Malnutrition, metabolic disorders, and environmental stressors such as rapid changes in temperature, oxygen levels, suspended solids, salinity, toxic chemicals, or other physical, chemical and biological qualities of a river can stress fish (Heath 1995). Monitoring fish health conditions in conjunction with traditional water quality measures provides biologically relevant information about potential stressors in the environment and their effects on fish (Schmitt and Dethloff 2000, Smith et al. 2002). Fish health conditions are surveyed because fish are regarded as representative indicators of overall water quality conditions and because of their position in the water column and intimate exposure in the environment (Anderson 1990; Adams et al.1993; Heath 1995; Schmitt et al. 2004).

In 2005, the Middle Rio Grande Endangered Species Act Collaborative Program requested proposals (U.S. Bureau of Reclamation [BOR] 2005) for monitoring the health conditions of Rio Grande silvery minnow (*Hybognathus amarus*; RGSM) in the mainstem of the Middle Rio Grande (MRG; Figure 1). In response, the U.S. Fish and Wildlife Service (Service) designed the RGSM Health Study to monitor and characterize the health conditions of RGSM in the MRG. Monitoring the health conditions of RGSM was meant to provide baseline data on diseases and parasites, and document external and internal anomalies and pathologies in fish collected throughout the year. The BOR (2005) also requested that monitoring of RGSM health conditions be conducted in conjunction with a water-quality monitoring program to better link results to possible causes. Various agencies participated in the RGSM Health Study including the New Mexico Environment Department (NMED); the University of New Mexico, Museum of Southwestern Biology (Museum); the U.S. Geological Survey (USGS), New Mexico Ecological Services Field Office, and Dexter Fish Health Unit. In particular, the NMED (2009) implemented (and reported separately) a companion water quality study that overlapped some of the same sites sampled by this RGSM Health Study.

For this RGSM Health Study, we used a suite of standard methods of observation of fish health conditions during necropsy to determine total length, mass, organ condition, the number and type of lesions and anomalies, the number and type of parasites and pathogens, and we analyzed their tissues for a variety of chemicals and genetic conditions. We collected RGSM and evaluated their health conditions, observed disease and pathology, histopathology and other conditions quarterly from July 2006 through July 2008 at six sites in the MRG from Bernalillo to near San Antonio, New Mexico (Figure 1). We also measured surface water quality parameters (e.g., dissolved oxygen (DO), oxygen saturation, temperature, pH, specific conductivity) in conjunction with the NMED (2009) collection and analysis of water and sediment from these or nearby sites.

Chapters and Appendices of this Report

There are three chapters of this RGSM Health Study Report with three additional reports included as appendices, which describe the different activities undertaken during this RGSM Health Study. Chapter 1 includes introductory materials, selection of study sites, methods of fish and water quality data collection, results, and discussion including the use of oxygen measures to evaluate gross primary productivity (GPP), ecosystem respiration (ER). Chapter 2 includes the Fish Health Assessment methods, necropsy results, and discussion. Chapter 3 includes the analytical methods, results, and discussion of chemicals in RGSM tissues. The Project Summary reports all findings of our study and provides recommendations. Literature cited and data appendices (Appendices 1A-1C, 2A-2K, and 3A-3F) are provided with the first three chapters. Some materials were made available online at http://www.fws.gov/southwest/es/newmexico/EC_reports.cfm. Appendix 4 includes the Fish Histology and Histopathology Report by Papoulias et al. (2009). Appendix 5 includes the Fish Pathogen Assessment Report that included methods of RGSM pathogen data collection, results, and discussion by Woodland (2012). Appendix 6 includes the Genetic Evaluation Report by Osborne and Turner (2009). Each chapter or appendix report also refers to their own figures, tables, and data appendices. Additionally, the water quality report by NMED (2009) describes their methods, results, and implications of Rio Grande water quality to RGSM, as well as some of the analytic results from water, sediment, and fish samples at sites concurrently sampled with the RGSM Health Study, except for summer 2006 or summer 2007.

Permissions, Land Access, Consultations, and Agreements

The Service was granted vehicular access to the Middle Rio Grande and adjacent floodplain by issuance of Special Use License and gate key from the Middle Rio Grande Conservancy District (District). Access was also obtained from the City of Albuquerque Open Space Division for activities within the Rio Grande Valley State Park. All fish collections were conducted in accordance with Federal Fish and Wildlife Permit Number TE676811 and New Mexico Department of Game and Fish Authorization Number 3094 for Scientific and/or Educational Purposes. An Environmental Action Statement identifying a categorical exclusion to the National Environmental Policy Act was filed for the RGSM Health Study in June 2006. All consultation and interagency agreements between the BOR and the Service, and between the Service and NMED, the University of New Mexico, and USGS were completed by March 2008.

METHODS

Description of the Study Area and Sampling Sites

The study area was the MRG within the Rio Grande-Albuquerque Watershed (USGS Hydrologic Cataloging Unit 13020203; we term this the MRG Basin) in central New Mexico (Figure 1). The MRG Basin has a drainage area of approximately 8,298 square kilometers (km^2) (3,204 square miles (mi^2)) and in 2000, the land use land cover was approximately 59 percent rangeland, 23 percent forest, 7 percent agricultural, 6 percent urban, 3 percent barren, and less than 2 percent surface water or wetlands (NMED 2002). Within the study area, the District provides irrigation water for agricultural purposes in a narrow band of land along the MRG. The District provides water for flood irrigation of crops by diverting water from the MRG by a system of diversion dams and canals while directing return flows to the MRG through drainage ditches and interior and riverside drains (Langman and Anderholm 2004). The largest urban area in the MRG Basin is the City of Albuquerque with a population of 529,219 (U.S. Census Bureau 2009).

Sample Site Selection and Frequency of Sampling

The BOR (2005) recommended fish health sampling sites be selected in conjunction with the water quality monitoring program and include: 1) locations at or near the Angostura Dam, 2) near the mouth to about 0.4 kilometers (km) (0.25 miles (mi)) downstream of the Albuquerque Metropolitan Area Flood Control Authority (AMAFCA) North Diversion Channel; 3) near the mouth of the City of Albuquerque's Southside Water Reclamation Facility discharge; 4) near the Village of Los Lunas; 5) below the confluence with the Rio Puerco; and, 6) upstream of San Acacia Dam. The six sites selected for conducting sampling for the RGSM Health Study were in these areas (Table 1; Figure 2) and spanned over 171 km (106 mi) of the MRG from the Bosque del Apache National Wildlife Refuge, south of San Antonio, New Mexico, north to Bernalillo, New Mexico. Final site selection was based upon historical monitoring locations, access permissions, logistics, and personnel safety.

Sites selected for the RGSM Health Study (Table 1) included: Site 1, Rio Grande at Bernalillo, New Mexico, was upstream of the City of Albuquerque and was used as a reference site for data comparisons where appropriate (Figure 3). Site 2, Rio Grande at Alameda, New Mexico, was generally below main City of Albuquerque's urban stormwater runoff return through the AMAFCA North Diversion Channel (Figure 4). Site 3, Rio Grande at Los Padillas, New Mexico, was downstream of the City of Albuquerque; including the Southside Water Reclamation Facility discharge contained treated domestic and industrial wastewater (Figure 5). Site 4, Rio Grande at Los Lunas, New Mexico, was approximately 29 km (18 mi) downstream of the City of Albuquerque (Figure 6). Site 5, Rio Grande at La Joya, New Mexico, was approximately 8 km (5 mi) downstream of the confluence of the Rio Puerco (Figure 7). Site 6, Rio Grande near San Antonio, New Mexico, was approximately 6 km (4 mi) south of San Antonio (Figure 8) and downstream of the San Acacia Diversion Dam.

The RGSM Health Study was designed to collect fish health assessment, pathogen, genetic evaluations, and water quality parameters as a means to characterize the health of wild RGSM in relation to water quality measures in the Middle Rio Grande over two years, thus capturing variation longitudinally and across seasons. Sites were sampled during July 2006, October 2006, January 2007 and April 2007 (Year 1) and during October 2007, January 2008, April 2008, and July 2008 (Year 2). That is, eight sampling events were conducted quarterly over these two sample years during summer (July 2006 and 2008), autumn (October 2006 and 2007), winter (January 2007 and 2008) and spring (April 2007 and 2008). No sampling was conducted in July 2007. For quality assurance, a practice session of fish and water quality collection was conducted in June 2006.

Sample Site Characterization

River transect, fish collection, and water quality data were entered by hand onto pre-printed data forms or in field notebooks. Every effort was made to accurately document the conditions present during river transect characterization, fish collection, or water quality data collection events including documenting locations using a hand-held global positioning system (GPS) receiver, time of collection, characterizing general habitat type, and recording observations onto pre-printed forms or in notebooks. The GPS receivers (position accuracy plus or minus [±] 15 meters (m) (50 feet (ft); Garmin Model GPS V, Olathe, Kansas) were used to record the coordinates of fish collection efforts or water quality measurements and the coordinates were formatted using northing and easting (m) using the Universal Transverse Mercator, Zone 13, coordinate system, and the North American Datum of 1983. The coordinates were entered onto field forms by hand and verified through depiction of sampling site location on topographic images using desktop software ArcMap 10 (ArcGIS 10.0, ESRI, Redlands, California) and correcting any erroneous location coordinates noted and during data transferred into spreadsheets.

Where available, site photography was included of a 180 degree (or more) panorama made of individual digital still photographs taken with a Cybershot camera (Sony Corp USA, San Diego, California) and stitched together using Photostitch software (Canon Utilities, Version 3.1.10, Canon, Inc., Tokyo, Japan). Where possible, site photography was conducted during deployment of the continuous water quality monitoring probes at each site. Additional photography was collected of field or laboratory activities and was provided with the other chapters or appendix reports.

River Transects

Measurements of river water column depth, wetted width, and water velocity were made along a single cross-sectional channel transect at each sampling site and for each event (when possible). At each transect site, a tag line was set out along the cross section of the river channel and physical measurements were made in the water column approximately every 8 ft (2.4 m) along the tag line. Water column depth was measured using a top-set wading rod, marked in tenths of ft (or at approximately 3-centimeter (cm) increments). Mean column velocity was measured with a portable velocity meter (FLO-Mate Model 2000, Marsh McBirney, Loveland, Colorado) using the six-tenths depth method for water

depths less than 60 cm (2 ft) and the two point method for depths greater than 60 cm (2 ft). Depth and velocity data were averaged by sampling event and were used in calculations of ER, gross primary productivity, and for statistical analyses. However, we also compiled daily average discharge results at our sites as measured by the nearest upstream USGS gage station for 5-day periods around our fish and water quality data collections to characterize flows during our sampling events.

Occasionally, we were unable to wade safely across the MRG (as in April 2008). Or we required additional data to characterize river width, depth, and velocity at a site, for example, to determine ER rates and these values had to be estimated for missing data. To estimate river width, depth, and velocity at a site without empirical data, we used the average daily discharge data from the nearest upstream USGS gage station on the day of our fish collection. Also, using river transect data from our other sampling events at a site, and the width, length, and velocity measures collected by USGS at the nearest upstream gage station during the period of this study (2006-2008), we developed a series of equations to estimate river width, depth, and velocity based upon the average daily discharge volume reported by USGS during our data collection. These equations and the estimated values were identified below and were reported with our river transect results.

Collection of Rio Grande Silvery Minnow

At random, collections of fish were initiated upon arrival at each river site by 1-2 field teams (each with three or more members lead by fish biologists trained to identify fish species of the MRG). Fish were collected using flat seines (3 m wide x 1-2 m deep with 3.2-millimeter (mm) seine mesh and approximately one lead weight every 15 cm on the bottom line). RGSM were collected in a series of seine hauls events. Multiple attempts were necessary to collect sufficient numbers of fish. However, lack or fish or time restrictions occasionally prevented collection of adequate numbers of fish. Each seine haul containing fish was first processed to remove as much debris as practical, and fish species other than RGSM were returned to the stream, as were specimens of RGSM that were undersized (less than 30 mm total length [TL]) from the final RGSM collection. Up to 90 RGSM, greater than 30 mm TL, were targeted from each site (a river reach approximately 6 km or more in length) during each sampling event. Fish collected through seining were immediately identified by fishery biologists to species (e.g., using Mayden et al. 1992), enumerated, and those of sufficient length were placed in plastic buckets modified with fine mesh screens to allow river water to flow through it.

Once the RGSM were collected, along with adequate river water for their transport, the fish were immediately returned to a motor vehicle where they were transferred into plastic bags and transported to a laboratory for further analyses. Plastic transport bags were filled with river water to approximately two-thirds capacity (approximately 3 liters (L); 0.8 gallons); the remaining volume of the bag was inflated with pure oxygen and its opening sealed to prevent loss of the bag's contents. No additional salts or additives were added. Transport bags with fish and water were packed tight inside ice chests (without ice) to stabilize temperature and prevent sloshing. However, when ambient water temperatures were greater than 25°Celsius (C), small amounts of ice were added around

the bags inside of the chests and sealed. Average time between beginning of seine collections and arrival of fish at the laboratory was approximately 4 hours (hr).

Hatchery-produced RGSM have been stocked at various locations within the MRG (Service 2010). Each batch of hatchery-produced fish is distinguished by a unique Visible Implant Elastomer (VIE) tag attached inside the fish's body. The occurrence of hatchery-produced RGSM was noted during seine haul events. When marked RGSM were collected and observed during seine haul events, the unique attributes of the mark were noted (i.e., color and body location), and fish were collected and evaluated similar to wild RGSM.

Up to 90 RGSM (or more) were collected during each sample event, although some sites also did not yield sufficient numbers of fish to conduct further analyses. Up to 60 fish per site were surveyed for specific pathogens (i.e., bacteria, parasites and viruses) by the Service's Dexter Fish Health Unit (Woodland 2012). All RGSM collected in summer (July 2006 and 2008) for pathogen assessment also had tissues removed and that were provided to the Thomas F. Turner Laboratory of the University of New Mexico Museum, for genetic evaluations (Osborne and Turner 2009). As many as 30 RGSM per site were individually measured and examined for external and internal anomalies during a fish health assessment (Davis and Lusk 2012, Chapter 2). Up to 17 percent of the fish necropsied or their organs and tissues were submitted for further histological and histopathological examination (Papoulias et al. 2009, Appendix 4). As many as 30 fish (or more) per site of the partial body carcasses that remained after necropsy or pathogen assessment were wrapped in foil and frozen. Later, these individual fish were composited by site and date in chemically clean jars, and sent to the Trace Element Research Laboratory, College Station, Texas, for chemical analyses (Lusk 2012). Some of the remaining fish carcasses have also been analyzed for stable isotopes (Cook 2011). Remaining RGSM and tissues were archived at the University of New Mexico Museum for future use. These multiple coordinated analyses help to maximize the scientific information available from the sacrifice of these endangered fish.

Measuring Water Quality Parameters

Water Quality Monitoring during Fish Collection

All field meters used to measure water quality parameters were calibrated in the field (near sampling sites) according to the manufacturer's instructions prior to making measurements. During fish collections, water quality parameters were measured using a hand-held multiprobe meter (YSI Environmental, Model 556, Yellow Springs, Ohio) with a guarded, probe module. In shallow water, the probe module was submerged to just above substrate, while in deeper water, the probe module was submerged approximately to mid-depth of the water column. Stable readings were made by hand onto data forms of water temperature (in degrees Celsius [°C]), dissolved oxygen (in milligrams per liter [mg/l]), percent oxygen saturation, and specific conductivity (microSiemens per centimeter [µS/cm] at 25°C). Specific conductivity was measured using probes that contained automatic temperature compensation circuits to correct the

electrical conductance to 25°C. All data were transferred to Excel 2007 spreadsheets (Microsoft Corporation, Redmond, Washington), and data verified.

Continuous Water Quality Monitoring

The goals of the continuous water quality monitoring was to collect data and describe the range of water temperature, specific conductivity, pH, DO, and oxygen saturation at the sites before and after fish collection events. In addition, we used these continuous water quality measurements together with wetted width, average depth, and average velocities measured or estimated at a river transect to estimate GPP and ER. The focus of this continuous monitoring was on the characteristics and range of water quality parameters and derivation of GPP and ER at six locations by season and sampling year as well as to compare with average daily discharge or suspended sediment concentrations as measured by USGS at nearby gage stations. Another objective of this monitoring was to better identify water quality parameters exhibiting degradation within a reach to help guide RGSM and water quality management efforts.

Sample site selections for continuous water quality monitoring were as described above. Continuous monitoring of water quality was made at or near the transect location at each site. The continuous water-quality monitoring devices were deployed at least 1 day before until at least 2 days after fish collection events and often for 5 days in total. Continuous water quality monitoring was conducted at 15-minute intervals for at least 24 hr using one of four multi-parameter "Sonde" devices (Datasonde or Minisonde Models 4a, Hydrolab Corporation, Austin, Texas). These Sondes used a four-parameter probe monitoring system, which collected water temperature, electrical conductivity, DO, oxygen saturation, and pH data. These Sondes were outfitted with a temperature-compensated, polarographic membrane-type oxygen sensor probes and used a standard membrane in the determination of DO. Water temperature and DO were also measured at 15-minute intervals for at least 24 hr using one of three, non-vented, continuous monitoring multiparameter "Troll" devices (Troll Model 9500, In-Situ Inc., Fort Collins, Colorado). These Trolls were outfitted with a rugged, optical, fluorescence-quenching sensor probes to determine DO. These sensors employ a light-emitting diode to provide incident light that excites the oxygen-sensitive substrate of the sensor. The magnitude of luminescence is measured and is inversely proportional to the DO concentration in the water. Using both these types of oxygen probes allowed for comparison of the two types of methods of DO measurement. However, all DO data measured by different probe types were combined for each site. Prior to deployment, routine calibration and maintenance according to the manufacturer's instructions was conducted on each probe.

The continuous water quality monitoring devices (up to two per site, one of each type) were installed in perforated plastic pipes that were suspended, mid-water column, by cables fastened between iron posts driven into the streambed at the center of flow determined by wading across to estimate the deepest location (i.e., thalweg) accessible at each site. In addition to serial numbers, proper names were given to each of the different probes (Trolls and Sondes) to better track their deployment and retrieval as well as during calibration, data retrieval, and data organization.

Data Analysis

Water quality data were stored on internal memory of the continuous monitoring devices for later downloading. Data were then imported into spreadsheets. Data were amended with date column, reviewed for deployment date and time, removal date and time, notations were removed, and data were plotted. Anomalous data, such as negative values, or values measured when probes were not in water, or when probe had been placed into a calibration solution were discarded.

Data were imported into Excel spreadsheets or imported and analyzed using the statistical software Statistica (version 9.0, StatSoft, Tulsa, Oklahoma) or database software (Microsoft Office Access 2007, Microsoft Corporation, Redmond, Washington) on a desktop computer. Prior to final statistical analysis, the assumptions of normality and equal variance were formally tested by the Shapiro-Wilks test and Levene's test, respectively (Statsoft 2011). Data that did not meet these assumptions were transformed to their natural logarithms and retested, such as for a one-way analysis of variance (ANOVA) or students' t-test (Statsoft 2011). If the natural log-transformation did not satisfy the assumptions, data were transformed to ranks and a Kruskal-Wallis and median test was applied to test the ranks (Statsoft 2011). Other parametric and nonparametric statistical tests were also employed and were so indicated in the text. Statistical significance probability (p) was set at p less than or equal to 0.05 for all statistical tests.

In some cases, continuous monitoring devices were smothered by sediment and were so noted upon their removal. Smothering of devices by sediment could have occurred anytime between deployment and discovery during their removal or during fish collections. After review of all data, those dissolved oxygen saturation data less than 50 percent oxygen saturation were considered suspect from those water quality devices that were found smothered. Therefore, all data (i.e., pH, temperature, dissolved oxygen content and saturation, specific conductivity measures) from those devices identified as smothered were flagged and censored from subsequent analyses and were so noted. Continuous monitoring data were summarized and qualitatively evaluated for comparisons by site, season, or sample year with other observations. General water quality was also assessed by comparing results to water quality standards (NMWQCC 2000; 20.6.1 New Mexico Annotated Code (NMAC)) or other guidelines as cited.

Derivation of Gross Primary Productivity and Ecosystem Respiration

We measured the rate of oxygen change in water over time with the continuous water quality monitoring probes to determine GPP and ER rates at each site that was associated with fish sampling. GPP and ER were determined using an open-system, single-station approach (Owens et al. 1974, Bott 1996). GPP and ER together, are referred to as "whole stream metabolism" (Bott 1996). Oxygen dissolved in water tends to fluctuate on a diurnal (24-hr) basis based on changes in temperature, stream mixing, barometric pressure and aquatic plant productivity. Together, processes like respiration, photosynthesis, water warming and cooling, or aeration typically gives a sinusoidal, diel-

pattern of DO and oxygen saturation that has minima in the early morning and maxima in the late afternoon (Odum 1956). Conversely, the observed oxygen gain and loss patterns from its measurement in stream waters can be used to calculate the component rates of primary production and ER (Odum 1956). Net primary productivity is the rate of formation of organic carbon (matter) from water and inorganic carbon by photosynthesizing organisms, which represents the conversion of solar energy to fixed energy that forms the base of food webs (Bott 1996). At night, some of this fixed energy is lost through plant respiration (i.e., the chemical processes by which plant sugars and starches are converted to energy through oxidation back into inorganic carbon and water). That portion of the fixed energy that remains and is stored as plant biomass is termed net primary productivity. Oxidative processes that may occur in sediment or the water column and respiration by bacteria, invertebrates, fungi, fish, and other aquatic organisms are included in the calculation of ER rates. The total (ER plus net primary productivity) is termed GPP. ER rates, GPP, and gas diffusion interact to produce the daily curve of oxygen change in the segment of flowing water that we measured using the continuous monitoring probes.

We used the continuous monitoring of temperature and dissolved oxygen over 24 hr to relate the rate of GPP, ER, and oxygen gas exchange with the atmosphere, assuming that groundwater inputs were negligible. Groundwater inputs of low DO into the MRG might not be negligible (see Mills 2003), however, we were unable identify methods to detect the relative contribution of groundwater on surface water oxygen content. Oxygen saturation often increases during daylight hours when photosynthesis is occurring and decreases at night when respiration continues and photosynthesis ceases. We used the DO and temperature measured at a site, and barometric pressure at calibration, to calculate the DO expected at saturation for a location using Equation 3 from Munson et al. (2004). From this, we calculated the amount of surplus or deficit oxygen saturation during each DO measurement. River transect characteristics of each site (i.e., average depth and velocity) were also used with the amount of surplus or deficit oxygen saturation to determine the oxygen exchange coefficient according to Owens et al. (1974) and Bott (1996). The area under the reaeration-corrected rate of oxygen change as a curve on standardized plots above a line drawn through the predawn to post dusk points was determined using a roller-type, digital planimeter (Placom Model KP90N, Tokyo, Japan) to estimate daily GPP. Water quality measured during the night (as defined as "civil twilight" between sunset and sunrise). Civil twilight was used as the limit at which illumination was sufficient for terrestrial objects to be clearly distinguished and was assumed to represent the period with most of the photosynthetic activity.

Division of the oxygen exchange rate by 24 hr converts the daily rate to an hourly rate, and hourly rates during civil twilight were averaged to determine average hourly nighttime respiration rates (Bott 1996). ER was then determined by multiplying the average hourly nighttime respiration rate by 24-hr. Whole stream metabolism was estimated from the difference between GPP and ER for those periods where both were measured. However, only GPP and ER rates and their ratios were statistically summarized, compared, and used in subsequent analyses.

RESULTS

Sampling Site Location and Characterization

Location of fish and water quality sampling events are depicted on Figures 3 to 8. Graphs of average daily discharge measured at the nearest upstream USGS gage that depict the fish collection and the deployment or retrieval of continuous water quality monitoring devices are on Figures 9-48 (Appendix 1A). Riverscape photography was used to characterize sampling sites and was provided in Plates 1 to 44 (Appendix 1B).

River Transects

Overall average wetted width at site transects was 257 m (880 ft), with Site 3 being the widest sampled (Table 2). Overall average depth at site transects was 0.45 m (1.5 ft). Site 1 was the deepest on average (0.52 m (1.7 ft)); however, Site 5 was the deepest (0.87 m (2.8 ft)) in April 2008, when stream discharge was measured over 100 cubic meters per second (m^3s^{-1}; 3010 cubic feet per second (ft^3s^{-1})). Overall average velocity at site transects was 0.53 m^3s^{-1} (1.75 ft^3s^{-1}). The swiftest velocity was measured at Site 1 during April 2008, and slowest was measured at Site 4 during July 2006, when the site had begun drying (Table 2). Low river discharge and river drying in July 2006 resulted in the low average depths and velocities at Site 4 to Site 6 (Table 2). Additionally, low river discharge in October 2007 also resulted in low average depth at Site 5 (Table 2).

Fish Collection

Up to 90 RGSM were collected during each sampling event, although we were unable to collect sufficient RGSM fish to conduct all fish health and pathogen analyses at some sites (Table 3). In total, 3,170 RGSM were collected in 957 successful seine hauls ranging from 1 to 56 RGSM per seine haul. Average catch (and standard deviation (SD)) was 3.3 ± 5.0 per seine haul. More RGSM were collected in Year 2 (1,932) than in Year 1 (1,238) and while more seine hauls were conducted in Year 2 (520), the catch rate was also better in Year 2 (3.5 ± 5.8) than Year 1 (2.8 ± 3.5) (Table 3). More RGSM were caught in summer (990) than in winter (752), and along the river's edge (36 percent) or in small channels (36 percent) than in the other habitat types sampled.

Water Quality during Fish Collection

All field water quality measurements were collected during the day only. Water quality measurements were collected only at 90 percent of the RGSM collections due to occasional equipment failures and data omissions. RGSM were collected in a wide range of water temperature (0.6 to 34.6 °C), dissolved oxygen (3.7 to 15.8 mg/L), pH (5.6-9.5) and specific conductivity (232-1,083 µS/cm) (Table 3 and 4). During RGSM capture, overall water temperatures measured were warmer (Kruskal-Wallis ANOVA, $H(1,896)=53.41$, $p<0.05$) during Year 1 (14.0 °C) than Year 2 (11.7 °C). There was a significant negative correlation (Kendall Tau = -0.13, $p<0.5$) between specific conductivity and the number of RGSM collected per seine haul in Year 2. We attributed

this relationship to the high catch rate of RGSM at Site 1 and Site 2 during Year 2 (Table 3). No other significant relationships were found between water quality measures and the number of RGSM captured during successful seine hauls.

Continuous Water Quality Monitoring

Over 30,000 observations of continuous water quality monitoring data are provided in Appendix 1C (Tables 5.1 to 5.82). As water quality data were collected night and day, we used these continuous water quality monitoring data to summarize the site conditions during this study. Water quality measured during the night was indicated in Appendix 1C by gray shading. Occasionally, continuous water quality monitoring devices were found smothered by sediment and were notated in Appendix 1C. Except as noted below, all water quality measures were censored from statistical analyses and interpretation whenever the oxygen saturation was less than 50 percent (a value we associated with the onset of sedimentation and fouling of the water quality monitoring devices). Summary statistics of these data for temperature, specific conductivity, pH, DO, and oxygen saturation by probe type, site and season are provided in Tables 6 to 10. Generally, temperatures were similar as measured by the different probe types, but DO was often lower when measured using a membrane-type sensors on the Sondes.

Temperature

The average water temperature for the Rio Grande during this study was 12.9°C with the range of average site temperatures falling between 2.6 °C in the winter and 26.0 °C in the summer (Table 6). Water temperatures showed the greatest variability in the summer and fall, and were least variable in the winter (Table 6). Site temperatures were colder in Year 2 (11.9±6.7°C) compared to Year 1(14.0±7.3°C) (Kruskal-Wallis $H(1, 30{,}104) = 872.7$ $p < 0.001$). In Year 1, Site 6 was significantly colder (11.7±8.5 °C) and Site 2 was significantly warmer (15.6±6.5 °C) in ranked temperatures than at the other sites (Kruskal-Wallis $H(5, 14{,}163) = 331.6$, $p < 0.001$). In Year 2, Site 1 (11.0±6.8 °C) and Site 6 (11.5±7.2 °C) were significantly colder than at Sites 2, 3, and 4, while Site 2 was significantly warmer (13.2±7.2 °C) in ranked temperatures than at the other sites (Kruskal-Wallis $H(5, 15{,}941) = 180.0$, $p < 0.001$). Site 1, the Rio Grande at Bernalillo, New Mexico, was generally the coldest site, on average, during spring, summer, and winter. Summer temperatures were highest at all sites, with temperatures greater than 38 °C on July 17, 2006, at Site 4, the Rio Grande at Los Lunas, New Mexico, during a period of river drying.

Specific Conductivity

The average specific conductivity for the Rio Grande during this study was 305 µS/cm with the range of average site conductivities falling between 171 and 605 µS/cm. Specific conductivity showed the greatest variability in Fall 2006 at Site 2 and Site 3, and was least variable at Site 1 (Table 7). Conductivity generally increased from upstream sites to downstream sites, and was greater at sites in Year 2 (329±113 µS/cm) compared to Year 1 (299±113 µS/cm) (Kruskal-Wallis $H(1,12{,}239) = 87.5$, $p < 0.001$).

pH

The overall site average pH of the Rio Grande was 8.2 with the range of average site pH falling between 7.7 and 8.8 (Table 8). The greatest variability in pH was at Site 1 (pH 7.7 to 9.2), and at Site 2 (pH 7.3 to 9.0) (Table 8). The pH was lowest at all sites during the summer, with the exception of Site 3. The least variable pH was measured at Site 3. The average pH (8.0) was generally the lowest at Site 3 compared to other sites measured (Table 8). Average pH was significantly higher (Kruskal-Wallis $H(1,13,978) = 155.6$, $p < 0.001$) at sites measured in Year 2 (8.3±0.3) compared with those in Year 1 (8.2±0.2).

Dissolved Oxygen (DO)

DO concentrations showed the greatest variation in the spring and least variation in the winter (Table 9). The average DO concentration for the Rio Grande during this study was 8.1 mg/L with the range of average site concentrations between 4.1 and 11.6 mg/L (Table 9). The highest DO concentrations were measured at Site 1 in January 2008. The lowest DO concentrations were measured at Site 6, in July 2006. Site 1 was at the highest elevation (of the sites measured) and had low water temperatures, and Site 6 was at the lowest elevation and had some of the highest water temperatures. A decreasing trend in DO from sites upstream (at lower atmospheric pressure and generally colder in temperature) to downstream sites would be expected (Benson and Krause 1980). DO concentrations were significantly and inversely correlated with temperature (Spearman Rank $r = -0.78$, $p<0.05$). We found that a linear relationship between temperature and DO concentration for the sites in the MRG that was best described by the equation: DO (mg/L) = 10.7798 - 0.2106 * Water Temperature (in Celsius). No additional analyses of these DO data were conducted as data were censored when continuous water quality monitoring probes were considered smothered with sediment (i.e., less than 50 percent oxygen saturation).

Oxygen Saturation

Oxygen saturation showed the greatest variation in the summer and least variation in the winter (Table 10). The average oxygen saturation for sites in MRG during this study was 89 percent with the range of average site concentrations between 87 and 94 percent (Table 10). The highest oxygen saturation was measured at Site 4, in July 2007. The lowest oxygen saturations were measured whenever sediment began to smother the oxygen probes of the water quality monitoring devices stationed at various sites. No additional analyses of these oxygen saturation data were conducted as the data were censored when continuous water quality monitoring probes were considered smothered with sediment (i.e., less than 50 percent oxygen saturation).

Ecosystem Respiration (ER)

The average 24-hr ER rate for sites on the MRG during this study was -18.2 grams of oxygen per square meter per day ($gO_2/m^2/day$) with the range of average site respiration

between -9.6 and -20.6 gO_2/m^2/day (Table 11). For all sites, the highest average site respiration was during fall (-20.7 gO_2/m^2/day), and it was lowest during winter (-9.4 gO_2/m^2/day). Site 1 had the most variation in respiration rates (-15.7±22.5 gO_2/m^2/day). During both sample years, Site 1 and Site 6 had significantly lower respiration rates compared with other sites (Kruskal-Wallis H (5, 382) =29.5, $p<0.0001$).

Gross Primary Productivity (GPP)

No useable GPP data were available from several sites in Spring 2007 and Summer 2008 (Table 12). The average GPP for the Rio Grande during this study was 3.5 gO_2/m^2/day with the range of average GPP between 1.8 and 4.8 gO_2/m^2/day (Table 12). For all sites, the lowest average GPP was in spring (3.0±2.5 gO_2/m^2/day), and it was highest in summer (4.1±1.9 gO_2/m^2/day). Site 2 had the highest GPP (17.6 gO_2/m^2/day) and highest variation. Site 5 had the lowest average GPP (1.8 gO_2/m^2/day) and lowest variation. GPP for all sites was greater in Year 2 (4.4±3.0 gO_2/m^2/day) than in Year 1(2.5±1.9 gO_2/m^2/day) (Kruskal-Wallis H (1, 223)=39.3, $p <0.0001$).

PR Ratio

Odum (1956) used the ratio of GPP to ER (the PR ratio) to classify streams as heterotrophic or autotrophic. Streams are heterotrophic (organic matter is imported into the stream) if the PR ratio is less than 1, or autotrophic (organic matter is created in the stream from inorganic compounds and sunlight) if the PR ratio is greater than one.

The average PR ratio for sites on the MRG was 0.1 with average PR ratios for sites ranging from -0.5 at Site 6 to 1.9 at Site 1 (Table 13). For all sites, the lowest average PR ratio was in spring (-1.1), and was highest in winter (1.0). PR ratios were similar by sample year (Kruskal-Wallis H (1, 223) =2.2, $p =0.13$) and season (Kruskal-Wallis H (3, 223) =7.6, $p =0.06$). However, PR ratios were greater at Site 3 and Site 4 than Site 6 in Year 1 (Kruskal-Wallis H (5, 105) =16.6, $p =0.005$), and PR ratios were greater at Site 5 than Site 6 in Year 2 (Kruskal-Wallis H (5, 118) =12.4, $p =0.03$).

DISCUSSION

Temperature

Temperature affects the density of water, the solubility of its constituents (such as oxygen), pH, specific conductivity, the rate of chemical reactions, and biological activity in water (Radtke et al. 2003). Both RGSM hatching and larval development are affected by high temperatures (Platania 2000). Oxygen saturation is also decreased by higher temperatures. During low flows, flow tends to be more stable with reduced stream power, and conditions in pool habitats that have near zero velocity are often more pronounced and have an elevated heating capacity (Service 1994, 2003). Small changes in water temperature are known to have considerable effects on freshwater fishes by affecting a variety of life history, behavioral, and physiological aspects (Morgan et al. 2001; Carveth et al. 2006). Alterations in the temperature regime from natural background conditions negatively affect population viability, when considered at the scale of the watershed or individual stream (McCullough 1999).

Buhl (2007) reported the median 24-hr lethal temperature for 90-day post-hatch RGSM was 36.1°C. Temperatures in excess of this median lethal temperature (up to 38.4°C) were observed 27 times during July 17 to 20, 2006, at Site 4. Temperatures were observed 10 times (up to 37.0 °C) on July 19, 2006, at Site 6. Low flows were reported at both of these sites (Table 2). However, RGSM were found at both sites (some were collected for health assessments and they were found in poor condition; Woodland 2012; Papoulias et al. 2009; Davis and Lusk 2012). The relationship between water temperature measured near the deepest flow (thalweg) and the temperature at the edges where the water is shallow is uncertain. Both Abeyta and Lusk (2004a) and SWCA (2010) have described water temperatures at the river's edge, as measured along transects, or in backwaters and side channel habitats as varying widely (0 to 14 °C) from water temperatures measured near the area of deepest stream flow. While we would expect that water temperatures in edge habitats near those where we measured elevated water temperatures may have been higher than 36.1°C for some period of time. There was not enough information to predict the range of water temperatures in the edge habitats of a river near our measurements of water temperature at the river's thalweg.

The temperature criterion for the main stem of the Rio Grande near these sites is 32.2 °C or less, in any single sample (NMWQCC 2000). Temperatures measured exceeded the 32.2 °C temperature criteria 93 times at Site 2 and 51 times at Site 6 during summer 2006. There are exceptions to the water temperature criterion that include "unusually high ambient air temperatures" (20.6.4.13.I. NMAC) or "when changes in temperature . . . are attributable to . . . the reasonable operation of irrigation and flood control facilities that are not subject to federal or state water pollution control permitting" (20.6.4.11.I.(2) NMAC). In July 2006, the maximum daily ambient air temperature was 40 °C and was not considered unusually high (http://weather-warehouse.com/WeatherHistory/PastWeatherData_BosqueDelApache_Socorro_NM_July.html). Additionally, the effect of operations of the Isleta Diversion Dam (an irrigation

facility) on Site 2 or downstream of the operations of the San Acacia Diversion Dam (an irrigation facility) on Site 6 water temperatures have not been assessed. If the reasonable operation of these irrigation facilities contributed toward water temperatures in excess of the lethal levels observed at these two sites, then exceptions to the temperature criteria in the New Mexico water quality standards might not be protective of RGSM.

Specific Conductivity

Electrical conductivity is a measure of the capacity of water to conduct an electrical current and is a function of the types and quantities of dissolved substances in water (Radtke et al. 2005). As concentrations of dissolved ions increase, specific conductivity of the water also increases. Electrical conductivity measurements can be used to estimate total dissolved solids (TDS) in water by multiplying specific conductivity by 0.584 and adding 22.1 (USDI 1998).

A pulse of water with high conductivity was measured at Site 2 (1,027 µS/cm; compared with the average with this site of 250 µS/cm), and at Site 3 (974 µS/cm versus the average for this site of 332 µS/cm) on October 10, 2006 (Figure 49). The daily discharge reported for the Rio Grande at San Felipe (USGS Gage 08319000), the Jemez River (USGS Gage 08329000), and the North Diversion Channel (USGS Gage 08329900) (Figure 4.2.5.3; Appendix 1B), had all increased during this time period suggesting their contributions influenced the specific conductivity measure at Site 2 during those days. The pulse of high conductivity water travelled approximately 40 km (25 mi) at a rate of over 1.3 ms^{-1} (3 mi hr^{-1}) as peak conductivity was measured at 2 p.m. on October 10, 2006, at Site 2, and 8 hr later at Site 3. Elevated conductivity was then measured for several days thereafter (Figure 49).

Just prior to this peak in conductivity, a low conductivity pulse was also measured and was associated with colder water temperatures (Table 5.10; Appendix 1C). Precipitation, because of its high content of carbon dioxide, normally has a low pH and low mineral content (Hynes 1970). During this time period, precipitation was reported at the Albuquerque International Airport in 2006 on October 7 (1.0 mm), October 8 (3.3 mm), and October 9 (31.2 mm) (NOAA 2006) during the period the low conductivity pulse was measured. Precipitation was also reported in the foothills east of Albuquerque in 2006 on October 8 (2.5 mm), October 9 (14.7 mm), and October 10 (25.4 mm) (NOAA 2006). Precipitation was only reported at the Jemez Dam in 2006 on October 10 (35.6 mm) (NOAA 2006). In response to heavy precipitation, a large amount of stormwater with a low mineral content can directly enter a river without have reached equilibrium with soils, whereas, after exposure to soils over time, stormwater runoff is likely to increase in TDS content (and neutralize the pH) as water passes over and percolates through the soil and dissolves calcium ions and other mineral salts. Therefore, we identified the stormwater runoff through the North Diversion Channel by the initial pulse of cold-water temperature with low conductivity. Following that pulse, the Jemez River, with its elevated conductivity, appeared to have contributed to the conductivity that we measured at Site 2 in October 2006. Pulses of elevated conductivity have been occasionally reported in the Rio Grande below San Marcial, New Mexico, by Hem (1992) and Moore

and Anderholm (2002). Variations in conductivity measured in the Rio Grande have also been associated with stormwater discharges from the Albuquerque metropolitan area by way of the North Diversion Channel (Kelly and Romero 2003; Kelly et al. 2006).

The median conductivity of 250 µS/cm at Site 2 would equate to approximately 168 mg/L TDS, whereas the peak pulse of conductivity measured at Site 2 on October 10, 2006, at 1,027 µS/cm, would approximate a TDS of approximately 622 mg/L. A TDS of 622 mg/L was not considered toxic to fish (USDI 1998). Toxicity due to TDS can result from disruption of organisms' osmotic regulation processes, decreases in bioavailability of essential elements, increases in availability of heavy metal ions, increases in particularly harmful ions, changes in ionic composition, absence of chemical constituents that offset impacts of harmful ions, a combination of the above, or other as yet unknown mechanisms (U.S. Environmental Protection Agency (USEPA) 2010). Increased TDS tends to cause shifts in aquatic community composition rather than acute mortality (USEPA 2010).

Information on toxicity of salinity or TDS on RGSM is generally lacking, presenting a substantial gap in predicting effects. Hoagstrom (2009) described the extirpation of RGSM from portions of the Pecos River with average TDS greater than 4,400 to 10,700 mg/L. Ostrand and Wilde (2001) described concentrations of salinity lethal to 50 percent of a population of plains minnow (*Hybognathus placitus*) as high as 16,000 ± 1,940 mg/L). However, Hoagstrom et al. (2010) described plains minnow as generally more environmentally tolerant than RGSM. Additionally, Cowley et al. (2009) reported that four 'practical salinity units' were lethal to approximately 50 percent of RGSM eggs. However, the use of a practical salinity scale by Cowley et al. (2009), does not result in salinity units that are basic to the fields of chemistry and physics, and therefore, cannot be easily interpreted or compared to other sites with conductivity measurements or TDS in units of milligrams solute per liter without additional information on ion composition (United National Educational, Scientific and Cultural Organization 1981, 1985).

The composition of the ions that make up TDS (e.g., sodium, calcium, potassium, sulfate, and other common ions) can make substantial differences in toxicity to fish and invertebrates (Mount et al. 1997; Soucek et al. 2011). For example, Mount et al. (1997) identified the range of sodium chloride (NaCl) concentrations in 48 hr that were lethal to 50 percent of fathead minnows was 6,090 to 7,070 mg/L, and to its invertebrate prey (*Daphnia magna*), which ranged from 3,790 to 5,740 mg/L. Whereas the range of sodium chloride and sodium bicarbonate mixtures that were lethal to 50 percent of fathead minnows was 2,330 to 5,250 mg/L, and to its invertebrate prey, ranged from 2,830 to 3,080 mg/L. Using these toxicity results, the average ratio of fathead minnow-to-invertebrate toxicity test results was 1.35. This suggests that mixtures of different ions can be additive in their toxicity to fish and their prey. Therefore, estimates of acute toxicity to 50 percent of a test species, or using single ions, may not be adequate to characterize the long-term effects of TDS to RGSM and additional study is warranted.

Soucek et al. (2011) described the acute toxicity of TDS to invertebrates (*Ceriodaphnia dubia*) based on a relationship with hardness. Using the Soucek et al (2011) TDS toxicity

relationship, and an average hardness of 141 mg/L in the Rio Grande at Isleta (Buhl 2002), we calculated the average TDS acutely lethal to 50 percent of invertebrates at 9,160 mg/L. Then, using an acute-to-chronic ratio for chlorides to invertebrates of 3.187 (Stephan 2009), and a safety factor of two to account for mixtures (above), we determined that the average chronic toxicity of TDS to invertebrates would be 1,437 mg/L. Assuming the ratio of fathead minnow-to-invertebrates of 1.35 was valid for extrapolating from this invertebrate toxicity estimate, then the average chronic toxicity of TDS to fathead minnow would begin above 1,940 mg/L. Therefore, assuming these relationships are an appropriate surrogate effects analysis for RGSM, then the pulse of TDS of approximately 622 mg/L at Site 2, on October 10, 2006, did not appear to adversely affect fathead minnow (1,940 mg/L), or exceed the monthly average TDS criterion of 1,500 mg/L in the MRG (20.6.4.105 NMAC).

pH

The pH is a measure of the concentration of hydrogen ions in the water. More specifically, pH is a measure that represents the negative base-10 logarithm of hydrogen-ion activity of a solution, in moles per liter (Radtke et al. 2003). Solutions having a pH below 7 are described as acidic, and solutions with a pH greater than 7 are described as basic or alkaline. Plant photosynthesis has also been indicated in raising pH, either by removing calcium content or by increasing activity of hydroxyl ions (Hynes 1970).

Elevated pH was measured at Site 1 and occurred every night between 6:30 p.m. and 6 a.m., during January 26 to January 31, 2008. Elevated pH was most frequently observed on January 27, 2008 and was its highest (pH 9.2) at 1:30 a.m. (Appendix 1C, Table 5.52). That pH increased only during nighttime was unusual, as ER activities (at night) can often release carbon dioxide, which tends to decrease pH, whereas increased primary productivity can increase the hydroxyl ions, which tends to increase pH (Hem 1992). The elevated pH observed at Site 1 occurred when DO concentrations were at their highest during the day. The reason for elevated pH measured at Site 1 during winter is unknown.

Elevated pH was also measured at Site 2 on October 9, 2006, during stormwater runoff that corresponded to the pulse of low conductivity water from the North Diversion Channel, just prior to a peak of elevated conductivity from the Jemez River (described above; Figure 49). The sudden inflow of stormwater to Site 2 in October 2006, may have affected the equilibria of both pH and conductivity in the water column. It is also possible that stormwater runoff (initial pulses of rainwater with low conductivity) did not have the buffering capacity to moderate the changes in pH during these events. Elevated pH measured at Site 2, in October 2006, was not also associated with an increase in DO.

The pH was lowest at all sites during the summer, with the exception of Site 3. The average pH (8.0) was generally the lowest at Site 3 compared to other sites measured. Passell et al. (2001, 2007) also reported that average pH was lowest (7.9) in the Rio Grande at Isleta, New Mexico (just downstream of Site 3) compared to other sites they measured. Wilcox (1997) and Passell et al. (2001, 2007) attributed the drop in pH at the

Rio Grande near Isleta, to the contribution of the treated sewage (which had a lower pH < 7.8) discharged from the Southside Water Reclamation Facility near Albuquerque.

The pH water quality criterion for the main stem Rio Grande in this area (Segments 20.6.105 and 20.6.106 NMAC) is "pH within the range of 6.6 to 9.0 or less, in any single sample." Exceedances of this pH criterion were observed 117 times, mainly at night Site 1, during the night in January 2008. Many biological effects to pH changes are often associated with acidic conditions (pH < 7; see Thurston et al. 1979). However, elevated pH can also cause direct physical damage to fish skin, gills and eyes, and an inability of fish to excrete metabolic wastes (especially when elevated pH occurs in conjunction with exposure to ammonia), or death (Calabrese 1969, Thurston et al. 1979; USEPA 1995). However, some fish species (other than RGSM) have survived over six months at an elevated pH (greater than pH 9, but less than pH 9.5; McCarraher and Thomas 1968; Table 1). McCarraher and Thomas (1968, Table 2) reported that fish exposed to pH 9.2 or greater survived less than six months. Research would be necessary to determine if elevated pH measured in the Rio Grande is associated with adverse effects to RGSM.

Oxygen Saturation and DO

Oxygen is essential to all aerobic aquatic organisms (Davis 1975; BCME 1997). Oxygen solubility, or the amount of DO in the water column is governed by many factors including atmospheric and hydrostatic pressure, temperature, turbulence, salinity, turbulence, groundwater upwelling, ice cover, and biological processes such as the oxygen byproducts of photosynthesis by aquatic plants (Odum 1956; Benson and Krause 1980; Bott 1996; Wagner et al. 2006). The capacity of water to hold oxygen in solution is inversely proportional to the water temperature (Benson and Krause 1980). Increased water temperature lowers the concentration of DO at saturation. Saturation is the maximum quantity of DO that water, in equilibrium with the atmosphere, can contain at a given temperature and pressure (i.e., based on the elevation of the water body). As a result, even when DO decreases as water temperature increases, and increases with increased atmospheric pressure, relative oxygen saturation can be compared more easily across sites and seasons.

DO may also be depleted by oxidation reactions or by biological and chemical processes that also contain dissolved, suspended, or precipitated organic matter or by other oxygen-demanding substances (Odum 1956; Hem 1992; Bott 1996). Diurnal fluctuations in DO concentrations can result from photosynthesis in excess of respiration as a source of oxygen during the day. At night, when photosynthesis ceases, respiration continues to consume oxygen and reduces the DO concentrations in the water column (Ignjatovic 1968; Bott 1996). Oxygen depletion is usually associated with excessive temperature, heavy growth of aquatic plants, algal blooms, or high concentrations of organic matter and nutrients (USEPA 1995). Oxygen depletions in the MRG have been associated with stormwater discharges from tributaries and urban areas, and floodplains inundation with high concentrations of organic matter (Abeyta and Lusk 2004b; Valett et al. 2005; Van Horn 2008; DBS&A 2009, Service 2011).

Fish may compensate for low DO conditions by behavioral responses, such as increased use of aquatic surface respiration, changes in activity level or habitat use, and reflexive avoidance behaviors, though these activities are known to come at a higher energy cost (Davis 1975; Kramer 1987; BCME 1997). Below some threshold oxygen saturation, fish will be expending energy to maintain homeostasis and some degree of physiological stress will occur (Davis 1975; Heath 1995). Ventilation rates are often increased, reduced feeding and movement activity are decreased and increased glycolysis and cortisol release can be induced even by short-term low DO conditions (Kramer 1987; Heath 1995; BCME 1997). Additionally, low DO conditions may also cause a wide range of chronic effects and behavioral responses in fish (Downing and Merkens 1957; Hughes 1973; Kramer 1987; Breitburg 1992). For example, chronic toxic effects have been reported in fish at concentrations that range from four to seven times those concentrations reported lethal the 50 percent of a test population (Davis 1975; Matthews and Hill 1977; Matthews and Maness 1979; USEPA 1995; Balfour 2000).

Buhl (2007, 2011) reported 50 percent mortality of a test population of adult RGSM exposed to water containing DO from 0.8 mg/L (6.7 to 13.2 percent oxygen saturation) for a 3-hr exposure without allowing RGSM to access the water surface (and respiring the thin layer of DO at the air-water interface). Buhl (2011) reported that the highest DO concentration observed without acute mortality to larval RGSM (i.e., those that had no access to the water surface) was 2.4 mg/L (i.e., 29.8 percent saturation). Buhl (2011) reported that the highest DO concentration observed without acute mortality to adult RGSM (i.e., those that had no surface access) was 4.4 mg/L (54.3 percent saturation).

We assumed that RGSM in water of DO less than or equal to 4.4 mg/L (i.e., 54.3 percent saturation), will begin to experience adverse effects such as changes in ventilation rates, increased surface water respiration, lack of feeding activity, metabolism changes, increased risk of predation (due to fish condition or position), and some (approximately 10 percent, see Buhl 2011) will begin to experience mortality. We also assumed that DO concentrations at or below 2.4 mg/L (29.8 percent oxygen saturation) are lethal to larval RGSM. As temperature and pressure, as well as other factors (above) can affect the solubility of DO in water, in the MRG (as compared to the temperature and pressure reported by Buhl 2011); we used oxygen saturation values (of 29.8 and 54.3 percent respectively) to describe the onset of acute adverse effects to larval and adult RGSM. Therefore, oxygen saturations (i.e., censored values) we measured at MRG sites were less than 54.3 percent saturation (adult RGSM adverse effect level) for approximately 67 days (17.9 percent of the time) and less than 29.8 percent saturation (larval RGSM adverse effect level) for approximately 33 days (8.8 percent of the time) in cumulative duration during the 374 days of continuous monitoring during 2006 to 2008. However, it is possible, that even though we used only censored oxygen saturation data, that some of the low oxygen saturation values measured were nonetheless associated with the *onset* of sediment fouling of the oxygen sensors. Sediment as oxygen demand is described below.

The majority of low oxygen saturation measurements were observed in spring (38 percent), during high runoff events and they occurred least in winter (8 percent). We also compared our daily oxygen saturation values with the average daily discharge as

measured by USGS (at the nearest gages), and found a significant linear relationship, that being: lnDischarge (in cubic feet per second) = 106.7004 - 1.3797*oxygen saturation ($F(1,77)=5.6$, $r=-0.26$, $p=0.02$). This suggested that higher flow events tended to reduce oxygen saturation measured at these sites, perhaps through the suspension of sediment in the water column. Kreutzberger et al. (1980) reported that low DO in the Milwaukee River was attributable to sediment oxygen demand (SOD) churned up by stormwater discharges that scoured sediment into the water column.

Veenstra and Nolen (1991) also noted that sediment can play an important role in the rate of oxygen depletion in the water column by providing oxygen demand from recalcitrant compounds (e.g., iron, manganese, ammonia, sulfides, etc.) as well as particulate organic matter (e.g., algae, bacteria, debris, etc.) and other sources of organic matter that decompose and oxidize. Buhl (2005) reported chemical oxygen demand in sediment collected from a stormwater inlet at 2100 mg/kg (wet weight) and in sediment from the MRG at 760 mg/kg (wet weight). Sources of SOD can include erosion from stream banks and sediment resuspended with increased flow (Fillos and Molof 1972; Kreutzberger et al. 1980; Wang 1980; Walker and Snodgrass 1986, Caldwell and Doyle 1995). Precipitation events of sufficient intensity can result in increased turbidity and increased input of SOD and other oxygen demanding substances (Huggins and Anderson 2005). In the MRG, increased velocity and scouring can disturb or smother sessile organisms (algae, bacteria, some invertebrates; SWCA Environmental Consultants 2007), and increase turbidity, which can shade light levels and reduce algal production (Bixby and Burdett 2009). Other indicators of low DO conditions in the MRG were the high percentage of fly larvae and worms (two year combined average of 81 percent; SWCA Environmental Consultants 2007). Low DO conditions can also release ammonia from organic matter, which can reduce habitat quality for fish and their prey (Merkens and Downing 1957; Fillos and Molof 1972; Thurston et al. 1981; Caldwell and Doyle 1995). Plummer et al. (2004) indicated that groundwater in alluvial sediment below the MRG from Cochiti Reservoir towards La Joya, New Mexico, had DO at 0.5 mg/L. Therefore, groundwater upwelling or erosion of alluvial sediment containing anoxic groundwater could also be sources of low DO in the MRG. SOD appears to be factor in observation of low DO conditions observed in the MRG in this study. However, it is unclear how the variation in water and sediment discharges and SOD inputs are affected by high and low flows, poor land management, flooding, drought, or other activities in the MRG Basin (Graf 1994; Scurlock 1998; Julien et al. 2005; Massong et al. 2007). Moderate to large changes in any one of these factors as a result of a single or multiple events that can affect the oxygen saturation level in the MRG and affect RGSM.

The State of New Mexico dissolved oxygen criterion for this portion of MRG (Segments 20.6.105 and 20.6.106 NMAC) is expressed as mass per volume units (mg/L) in tables based on elevation and temperature (20.6.4.900.N.1). NMED (2009) provided additional criteria guidance based on the instantaneous percent oxygen saturation for warm waters, such as the Rio Grande at a minimum of 75 percent saturation. Using our censored oxygen saturation values, fifteen percent (n=4,394) of our observations at all sites exceed this criterion with 25 percent occurring in summer and 5 percent occurring in winter.

GPP, ER, and PR Ratio

A wide range of ER was observed, and average GPP and PR ratios were generally low. The average PR ratio for sites on the MRG was 0.1, with only 3 sites (Site 1, Site 3, and Site 4) having PR ratios greater than 1 in Year 1, and 2 sites (Site 1 and Site 2) having PR ratios greater than 1 in Year 2. Odum (1956) suggested that rivers with PR ratios less than 1 were heterotrophic and may have little free energy available in organic matter to build large populations of fish and other aquatic organisms. Average PR ratios greater than 1 occurred most during winter (at Sites 1 to 3) when ER was low. On average, ER was five times greater than average GPP, suggesting that the major sources of carbon in the MRG likely come from terrestrial plants in the watershed and not from aquatic plants.

Duffer and Dorris (1966) reported that ER exceeded GPP in a sandbed river in Oklahoma and suggested that the substrate provided less opportunity for benthic producers. Houser et al. (2005) identified that watershed disturbance (i.e., erosion) as negatively affecting ER but not GPP. It is possible that sites with fine sediment are less stable than those with coarse sediment and are more easily mobilized along the bottom and suspended in the water column. Algae associated with sediment can be physically scoured, often damaged and are transported downstream, thus limiting algal growth and production at a particular stream site or reach. Sharp changes in discharge and velocity may have directly or indirectly affected DO, GPP and ER rates, and PR ratios in the MRG, thereby reducing its potential productivity and subsequently its populations of fish, including RGSM.

Summary

The most common degraded water quality condition in the MRG was low oxygen content, likely associated with oxygen demand in sediment. Increasing primary productivity and thereby increasing oxygen saturation could decrease oxygen demand and therefore, ER. Increased oxygen and GPP (e.g., through enhancement of productive aquatic habitats), and reduced SOD (e.g., through erosion control measures) would likely result in increased fish growth and distribution, increased species richness of benthic invertebrates (Odum 1956; Hynes 1970; Davis 1975; Breitburg 1992; Barfour 2000; USEPA 1995, 2010), and decreased chronic stress reported in RGSM (Sykes 2003; Abeyta and Lusk 2004a; Papoulias et al. 2009; Davis and Lusk 2012).

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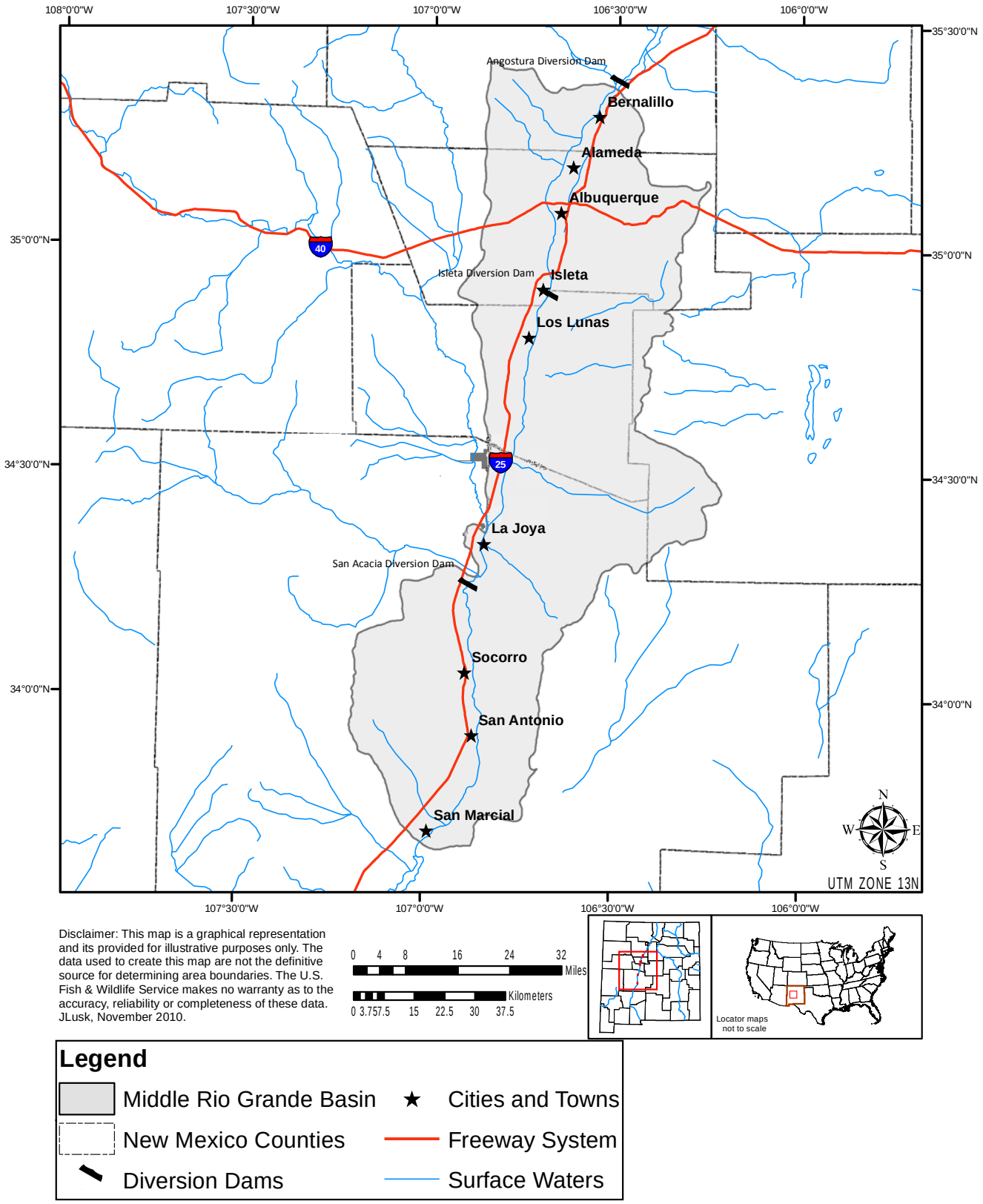


Figure 1. Location of the Middle Rio Grande Watershed and RGSM Health Study Area in New Mexico.

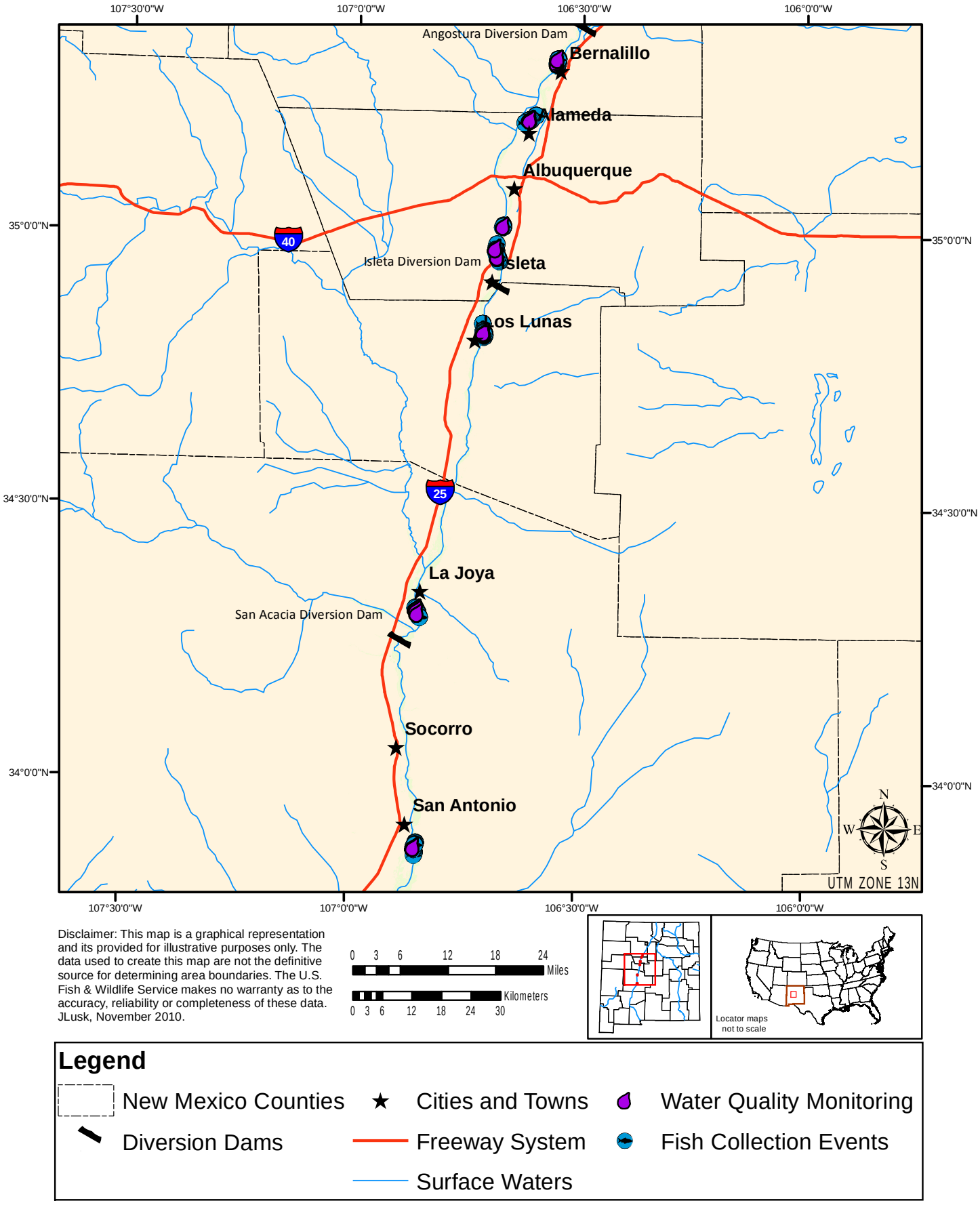


Figure 2. Location of the Six RGSM Health Study Sites along the Middle Rio Grande in New Mexico.

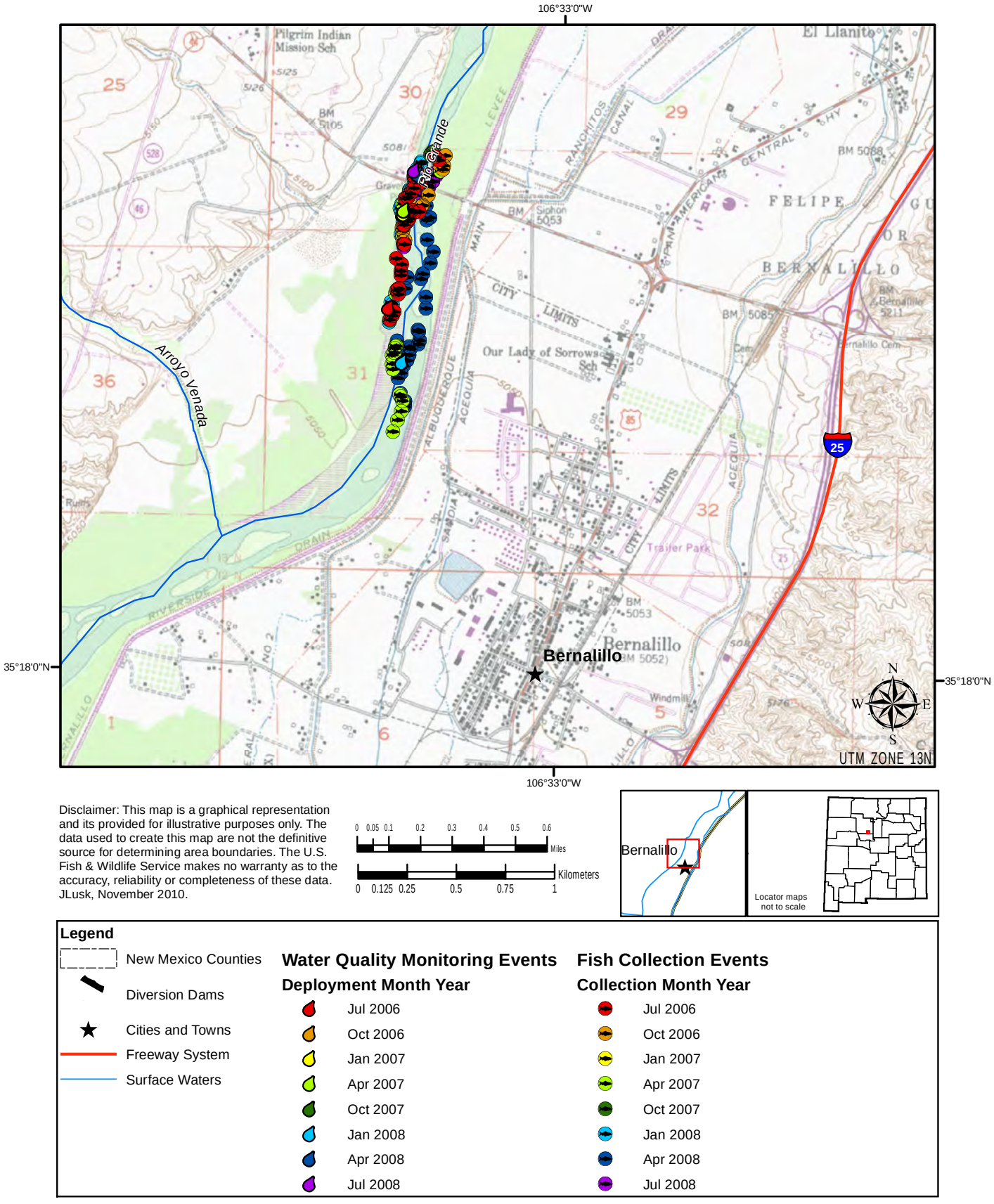


Figure 3. Location of RGSM Health Study Sampling Site 1, Rio Grande at Bernalillo, New Mexico.

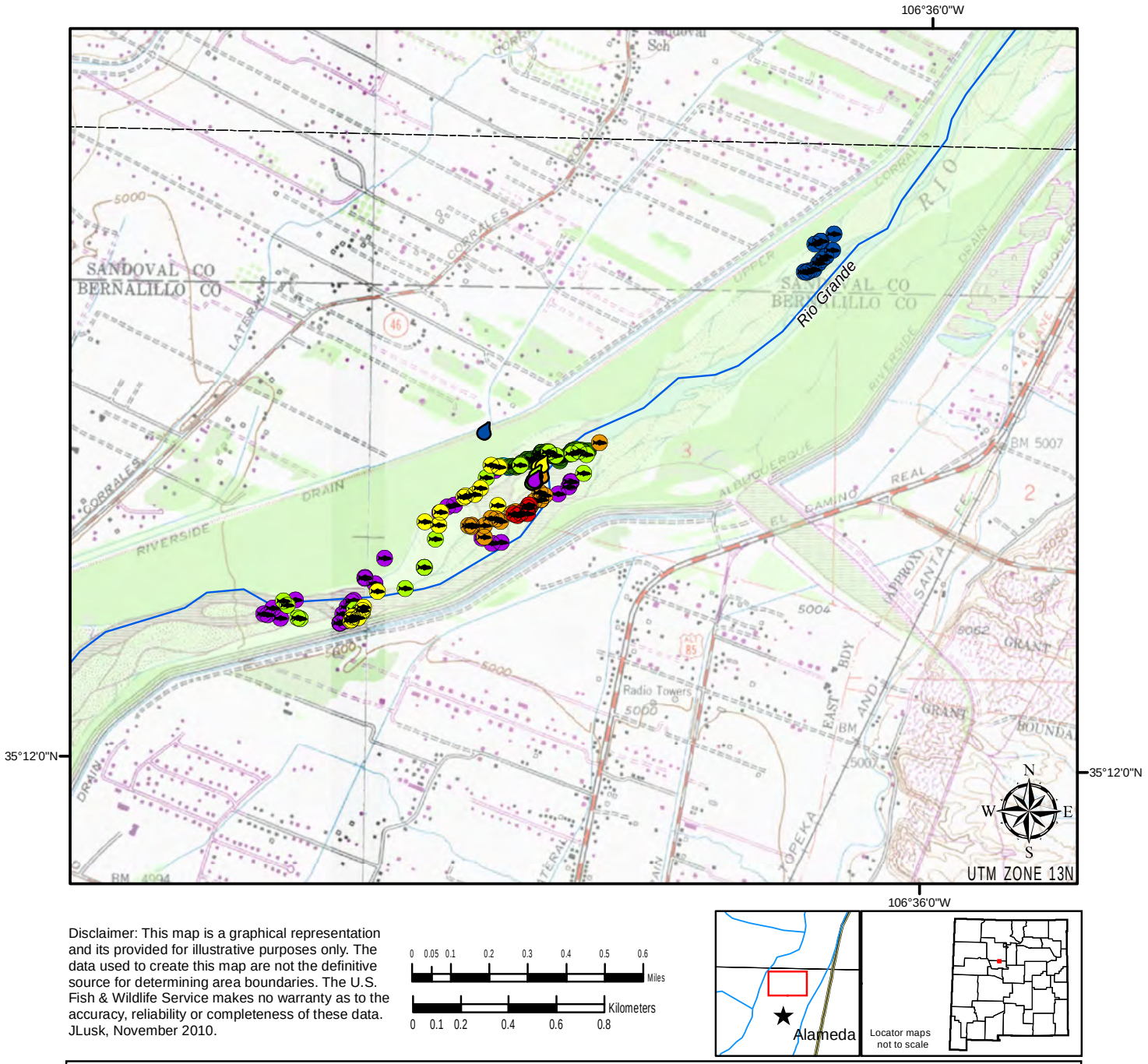


Figure 4. Location of RGSM Health Study Sampling Site 2, Rio Grande at Alameda, New Mexico.

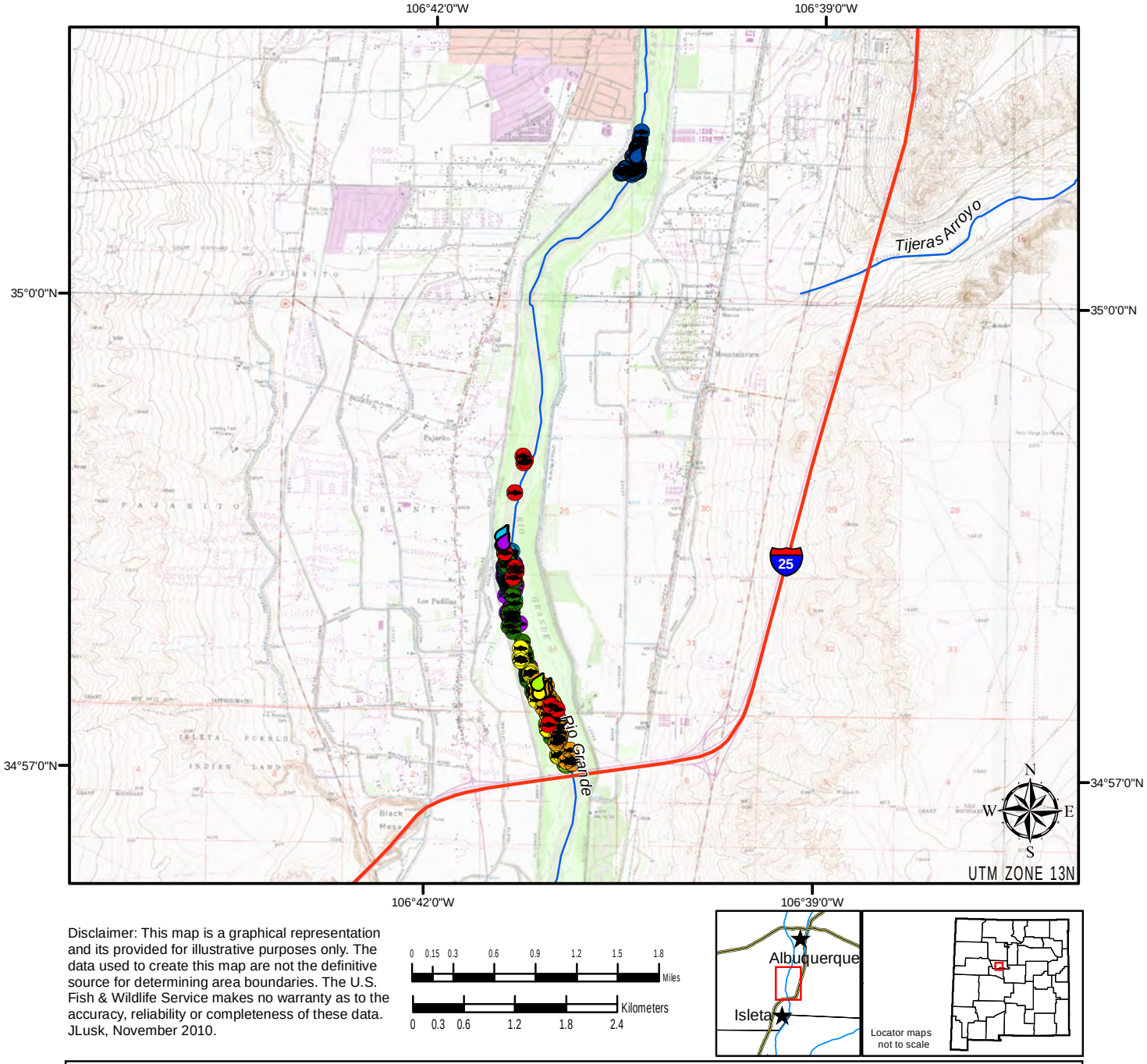
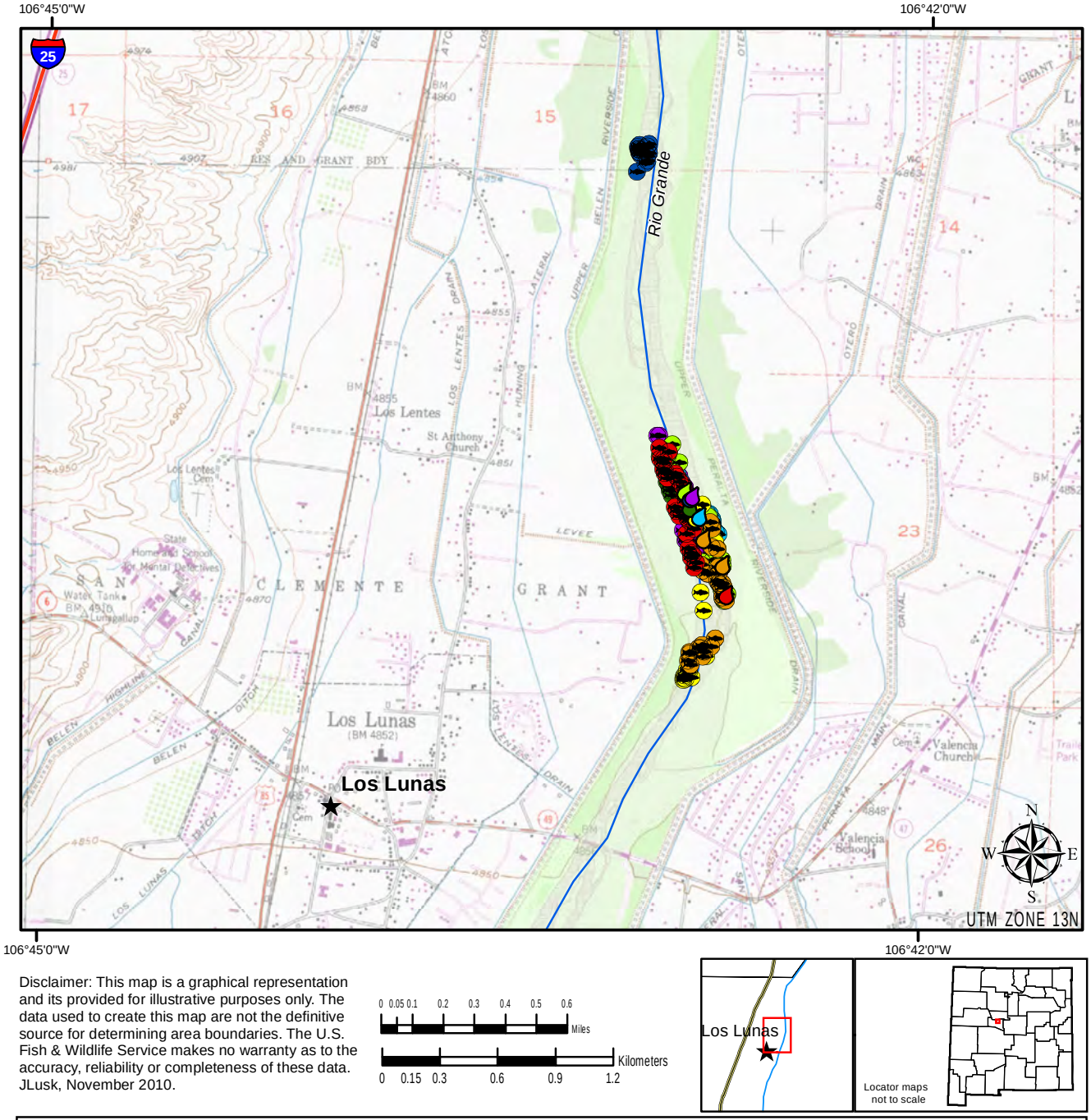


Figure 5. Location of RGSM Health Study Sampling Site 3, Rio Grande at Los Padillas, New Mexico.



Disclaimer: This map is a graphical representation and its provided for illustrative purposes only. The data used to create this map are not the definitive source for determining area boundaries. The U.S. Fish & Wildlife Service makes no warranty as to the accuracy, reliability or completeness of these data. JLusk, November 2010.

0 0.05 0.1 0.2 0.3 0.4 0.5 0.6 Miles

0 0.15 0.3 0.6 0.9 1.2 Kilometers

Legend

- New Mexico Counties
- Diversion Dams
- Cities and Towns
- Freeway System
- Surface Waters

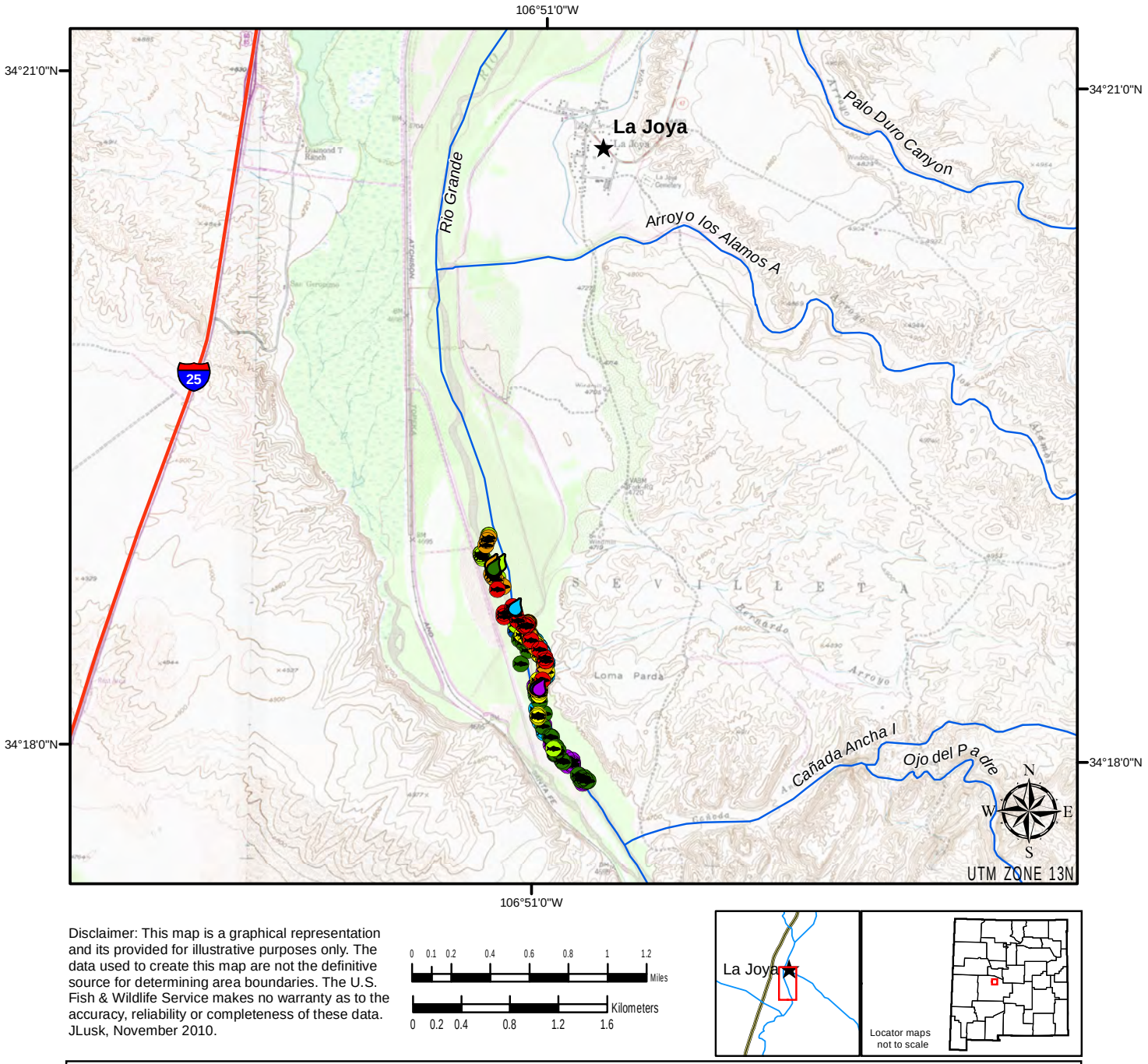
Water Quality Monitoring Events
Deployment Month Year

- Jul 2006
- Oct 2006
- Jan 2007
- Apr 2007
- Oct 2007
- Jan 2008
- Apr 2008
- Jul 2008

Fish Collection Events
Collection Month Year

- Jul 2006
- Oct 2006
- Jan 2007
- Apr 2007
- Oct 2007
- Jan 2008
- Apr 2008
- Jul 2008

Figure 6. Location of RGSM Health Study Sampling Site 4, Rio Grande at Los Lunas, New Mexico.



Disclaimer: This map is a graphical representation and its provided for illustrative purposes only. The data used to create this map are not the definitive source for determining area boundaries. The U.S. Fish & Wildlife Service makes no warranty as to the accuracy, reliability or completeness of these data. JLusk, November 2010.

0 0.1 0.2 0.4 0.6 0.8 1 1.2 Miles

0 0.2 0.4 0.8 1.2 1.6 Kilometers

Legend

- New Mexico Counties
- Diversion Dams
- Cities and Towns
- Freeway System
- Surface Waters

Water Quality Monitoring Events
Deployment Month Year

- Jul 2006
- Oct 2006
- Jan 2007
- Apr 2007
- Oct 2007
- Jan 2008
- Apr 2008
- Jul 2008

Fish Collection Events
Collection Month Year

- Jul 2006
- Oct 2006
- Jan 2007
- Apr 2007
- Oct 2007
- Jan 2008
- Apr 2008
- Jul 2008

Figure 7. Location of RGSM Health Study Sampling Site 5, Rio Grande at La Joya, New Mexico.

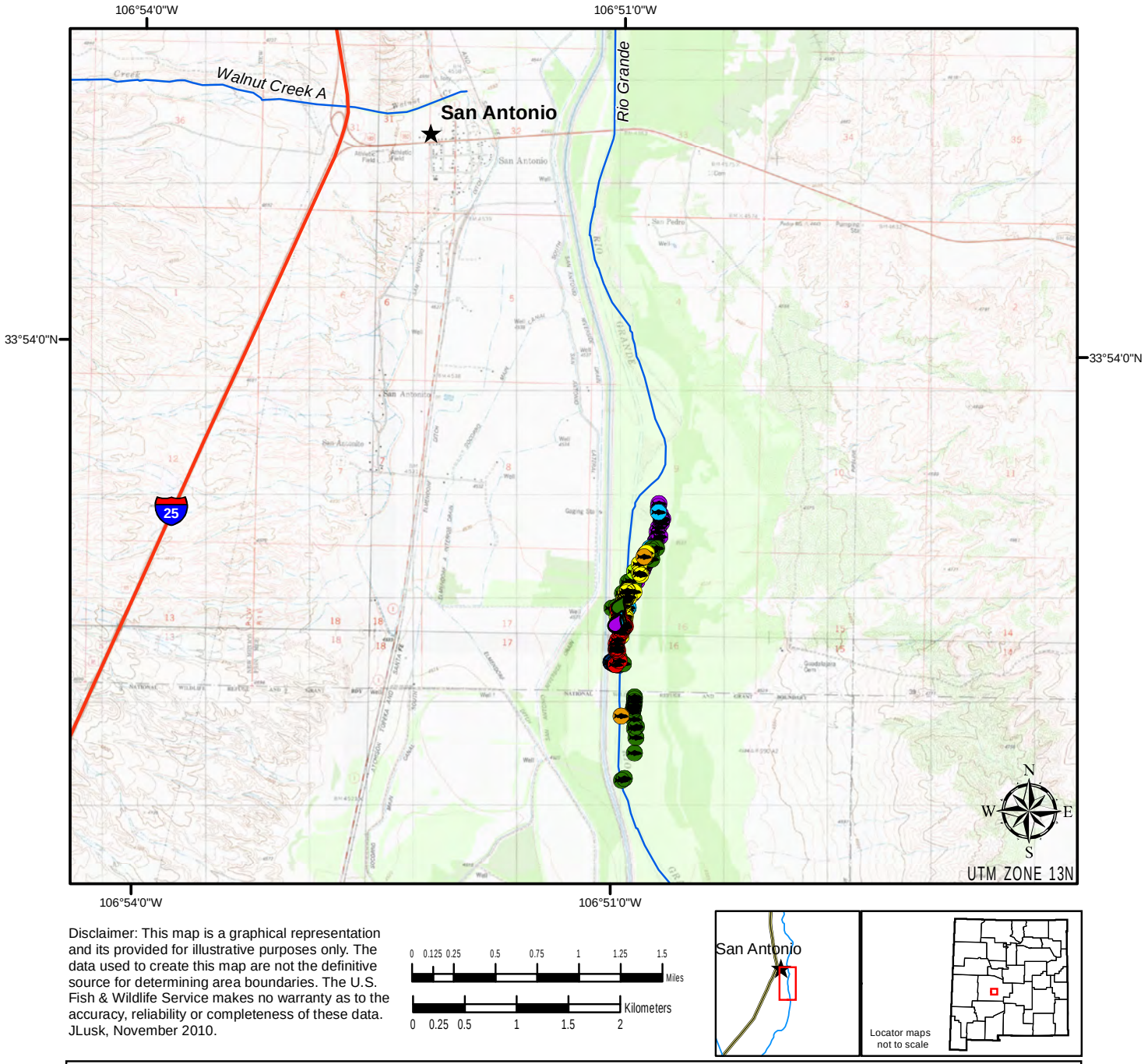


Figure 8. Location of RGSM Health Study Sampling Site 6, Rio Grande near San Antonio, New Mexico.

Figure 9. Mean Daily Discharge at USGS Gage 08329918, Rio Grande at Alameda Bridge at Alameda, NM, during Summer 2006.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 1, Rio Grande at Bernalillo, NM, and Site 2, Rio Grande at Alameda, NM.]

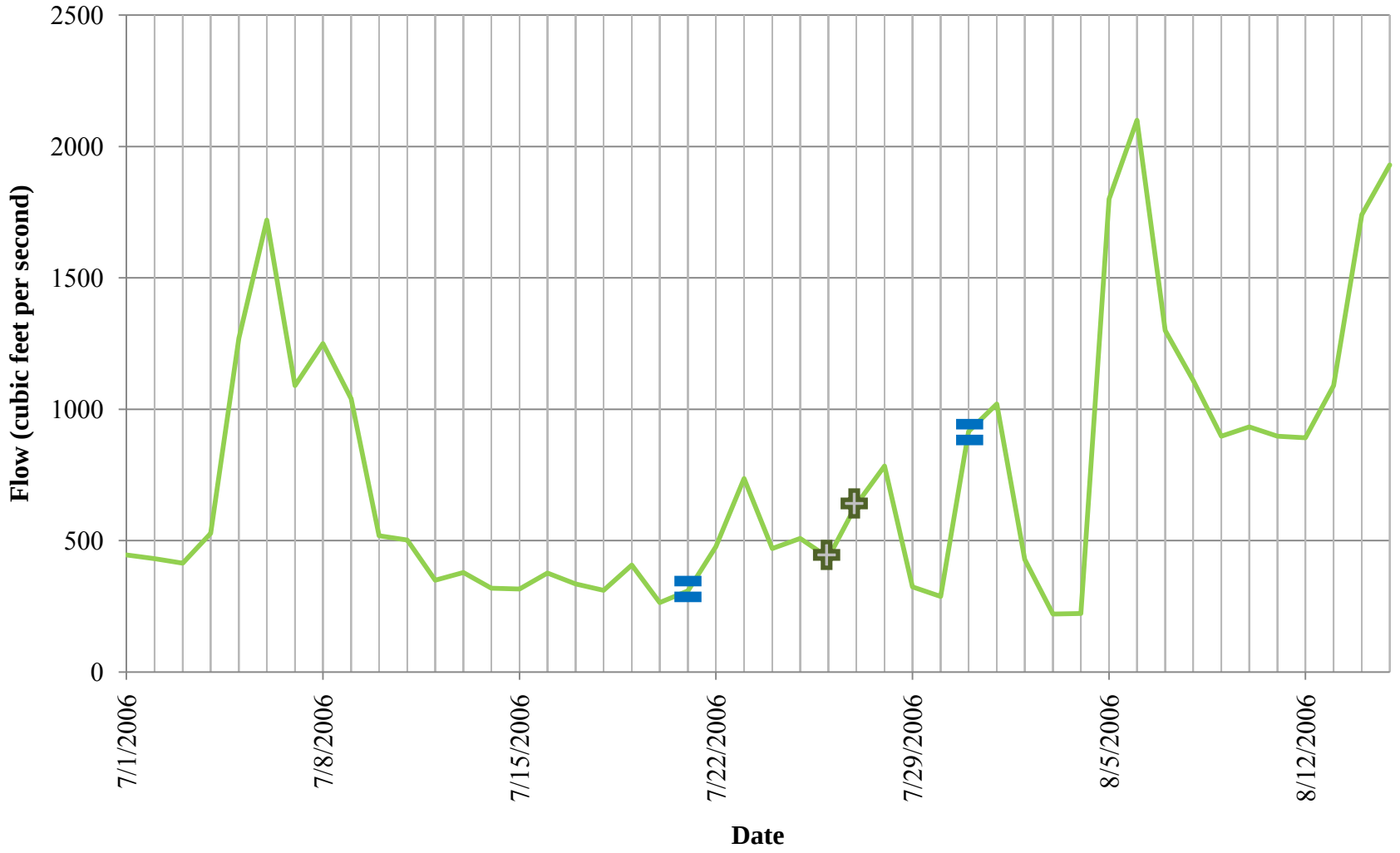


Figure 10. Mean Daily Discharge at USGS Gage 08329918, Rio Grande at Alameda Bridge at Alameda, NM, during Fall 2006.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 1, Rio Grande at Bernalillo, NM, and Site 2, Rio Grande at Alameda, NM.]

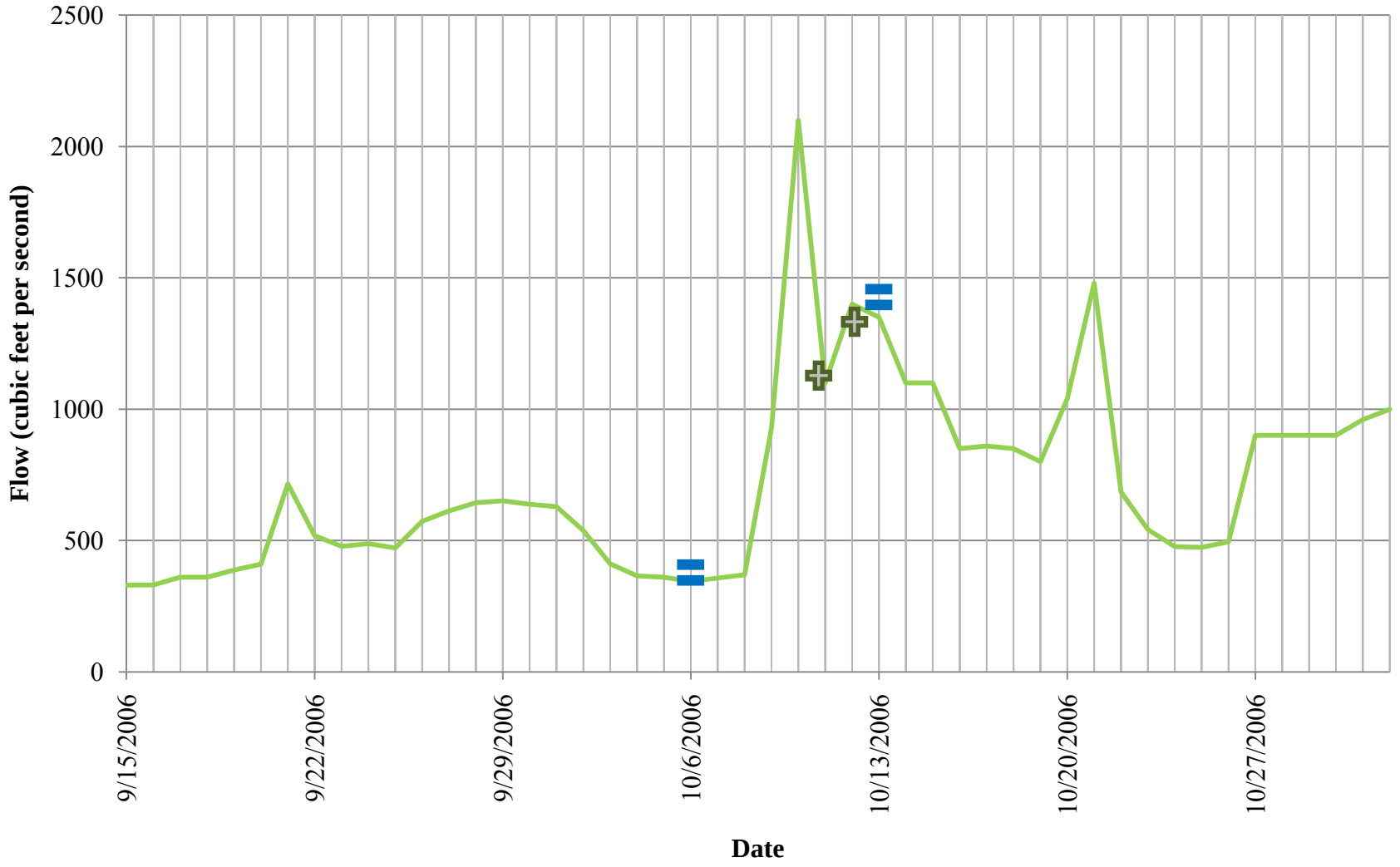


Figure 11. Mean Daily Discharge at USGS Gage 08329918, Rio Grande at Alameda Bridge at Alameda, NM, during Winter 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 1, Rio Grande at Bernalillo, NM, and Site 2, Rio Grande at Alameda, NM.]

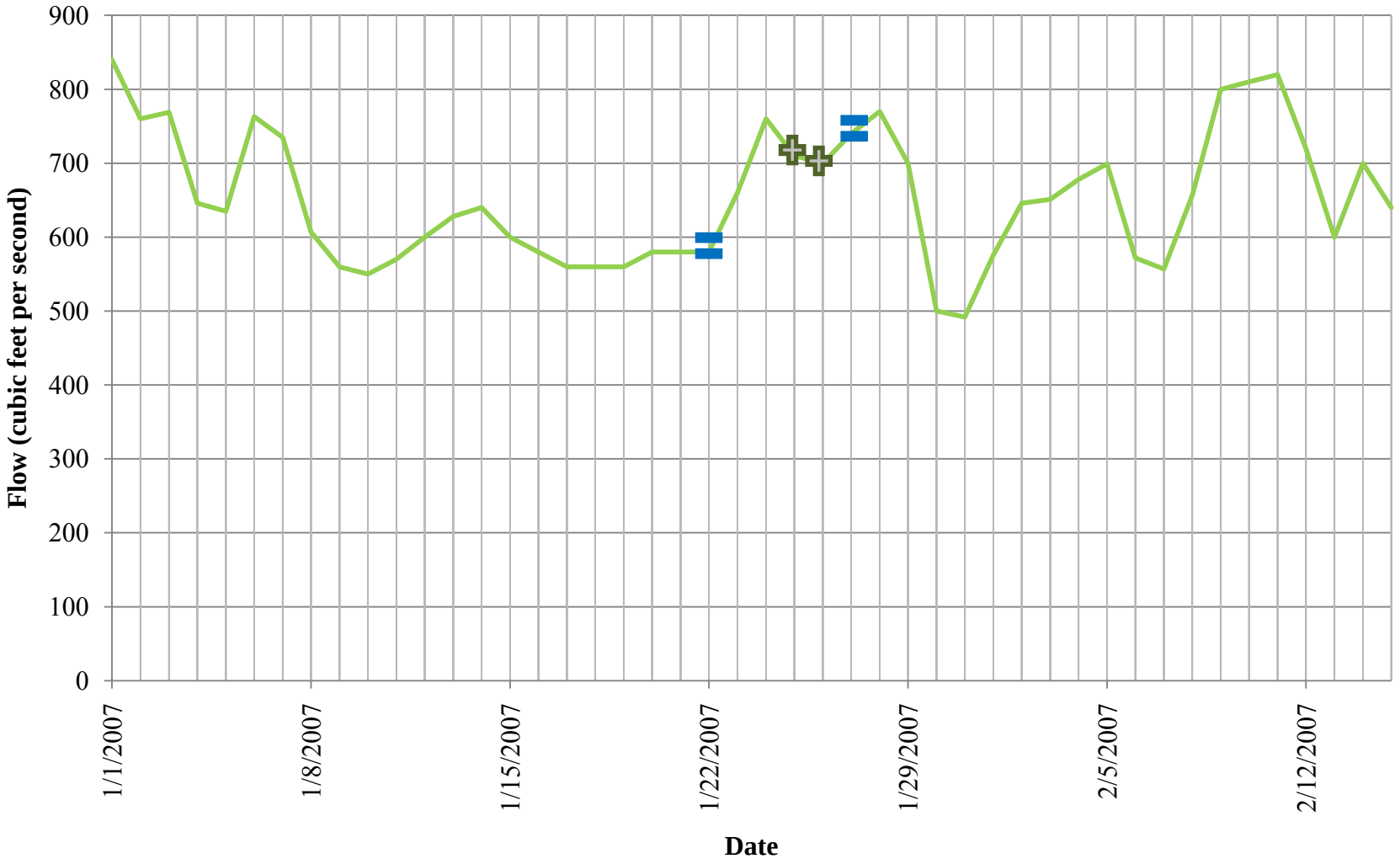


Figure 12. Mean Daily Discharge at USGS Gage 08329918, Rio Grande at Alameda Bridge at Alameda, NM, during Spring 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 1, Rio Grande at Bernalillo, NM, and Site 2, Rio Grande at Alameda, NM.]

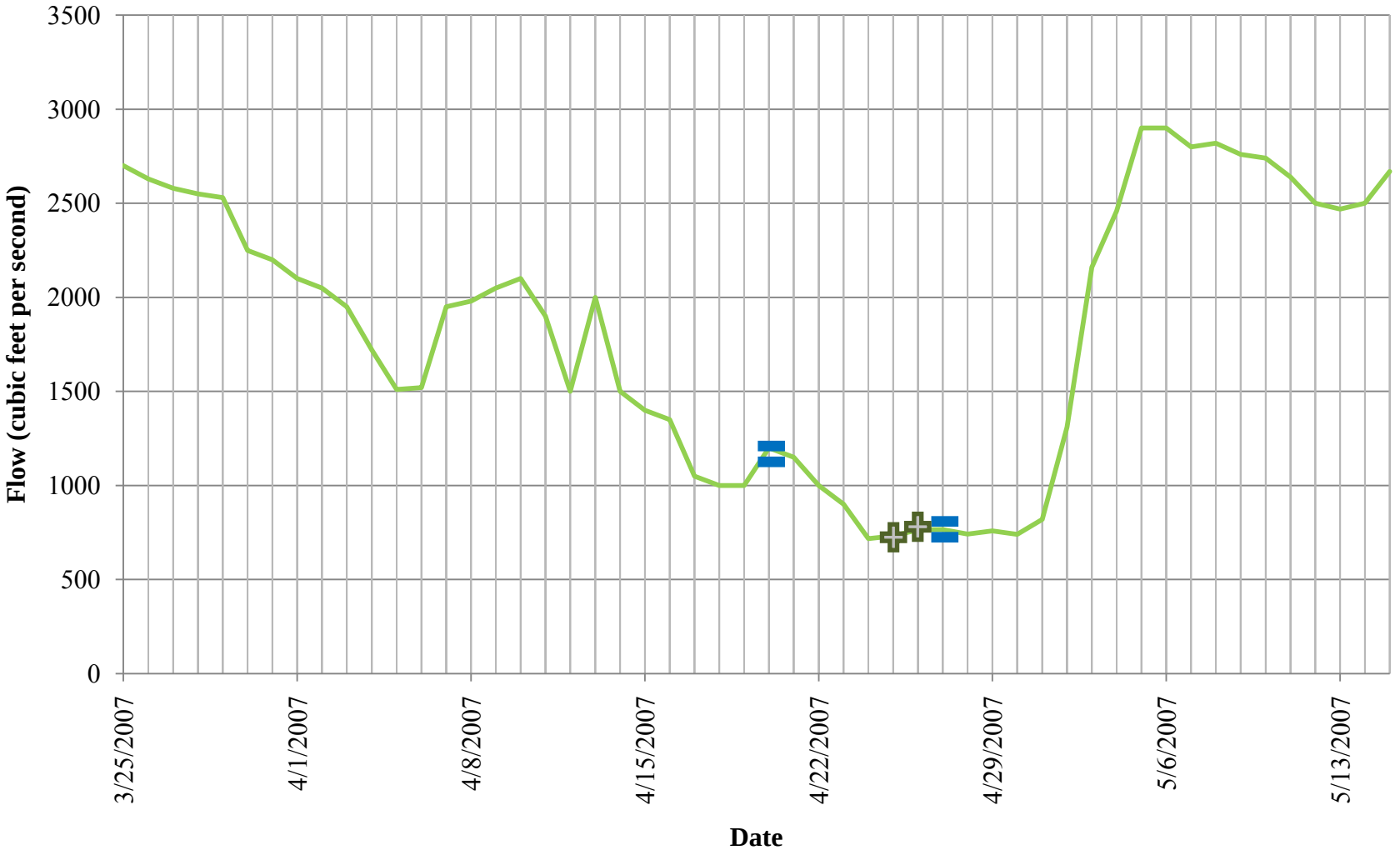


Figure 13. Mean Daily Discharge at USGS Gage 08329918, Rio Grande at Alameda Bridge at Alameda, NM, during Fall 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 1, Rio Grande at Bernalillo, NM, and Site 2, Rio Grande at Alameda, NM.]

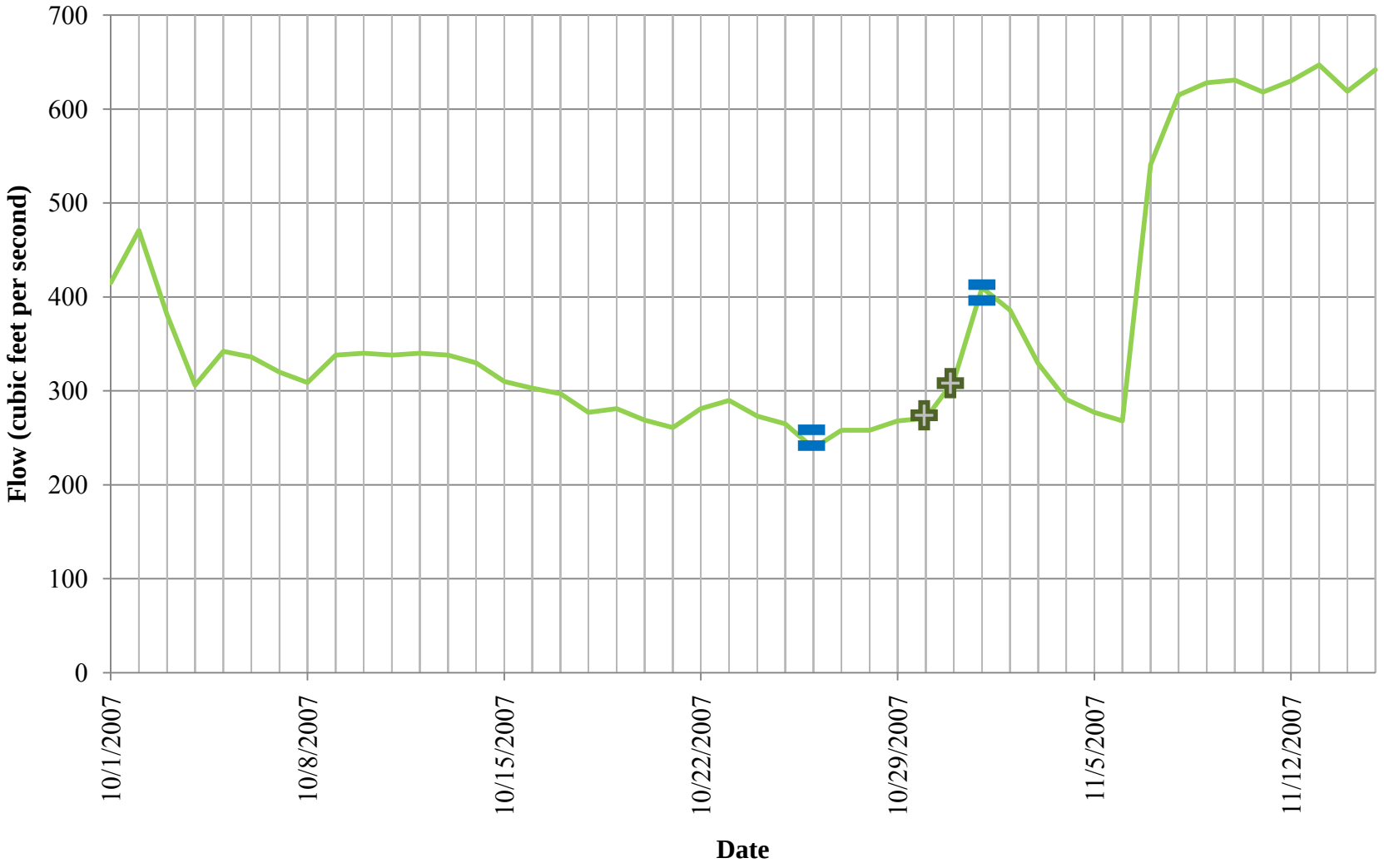


Figure 14. Mean Daily Discharge at USGS Gage 08329918, Rio Grande at Alameda Bridge at Alameda, NM, during Winter 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 1, Rio Grande at Bernalillo, NM, and Site 2, Rio Grande at Alameda, NM.]

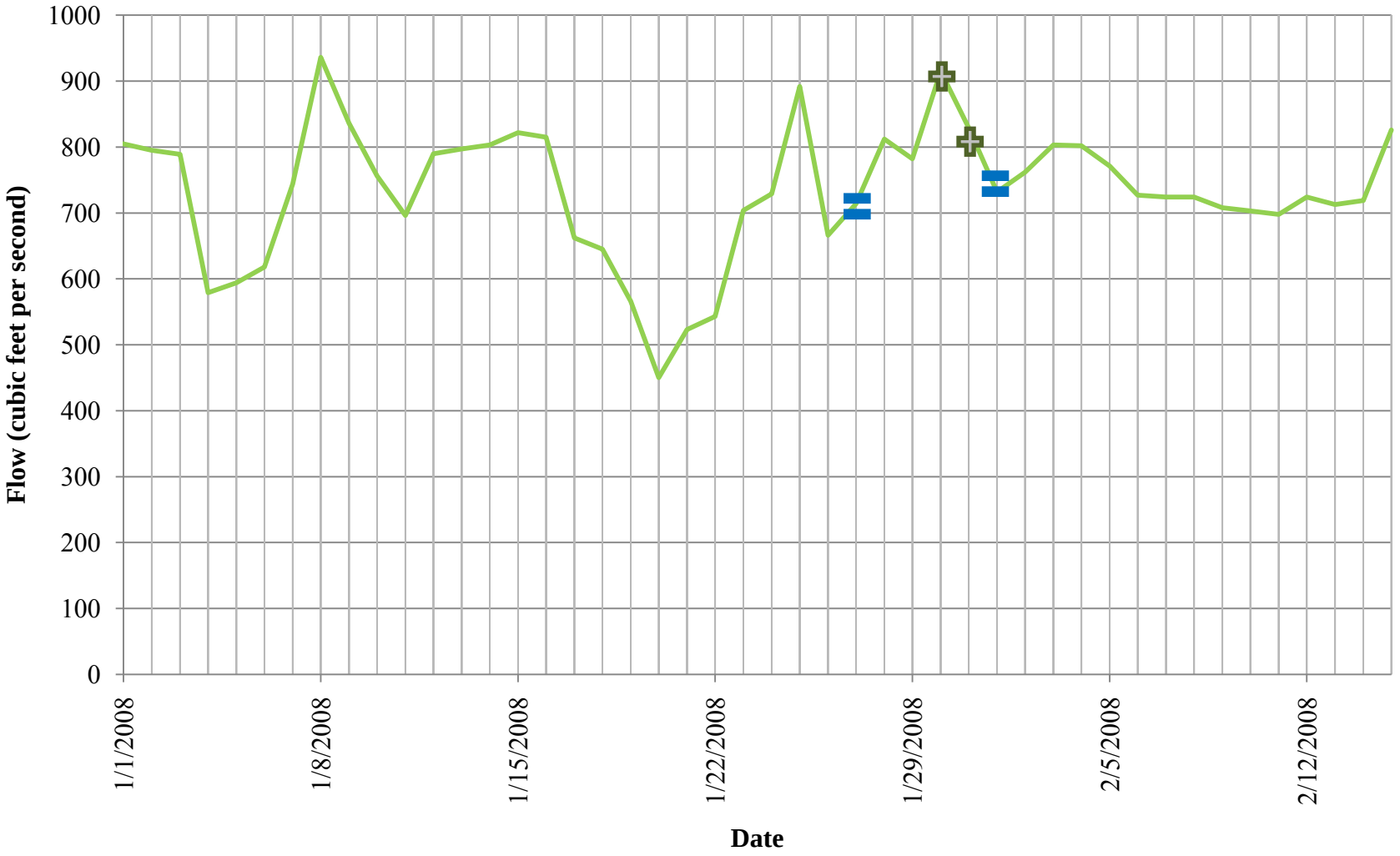


Figure 15. Mean Daily Discharge at USGS Gage 08329918, Rio Grande at Alameda Bridge at Alameda, NM, during Spring 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 1, Rio Grande at Bernalillo, NM, and Site 2, Rio Grande at Alameda, NM.]

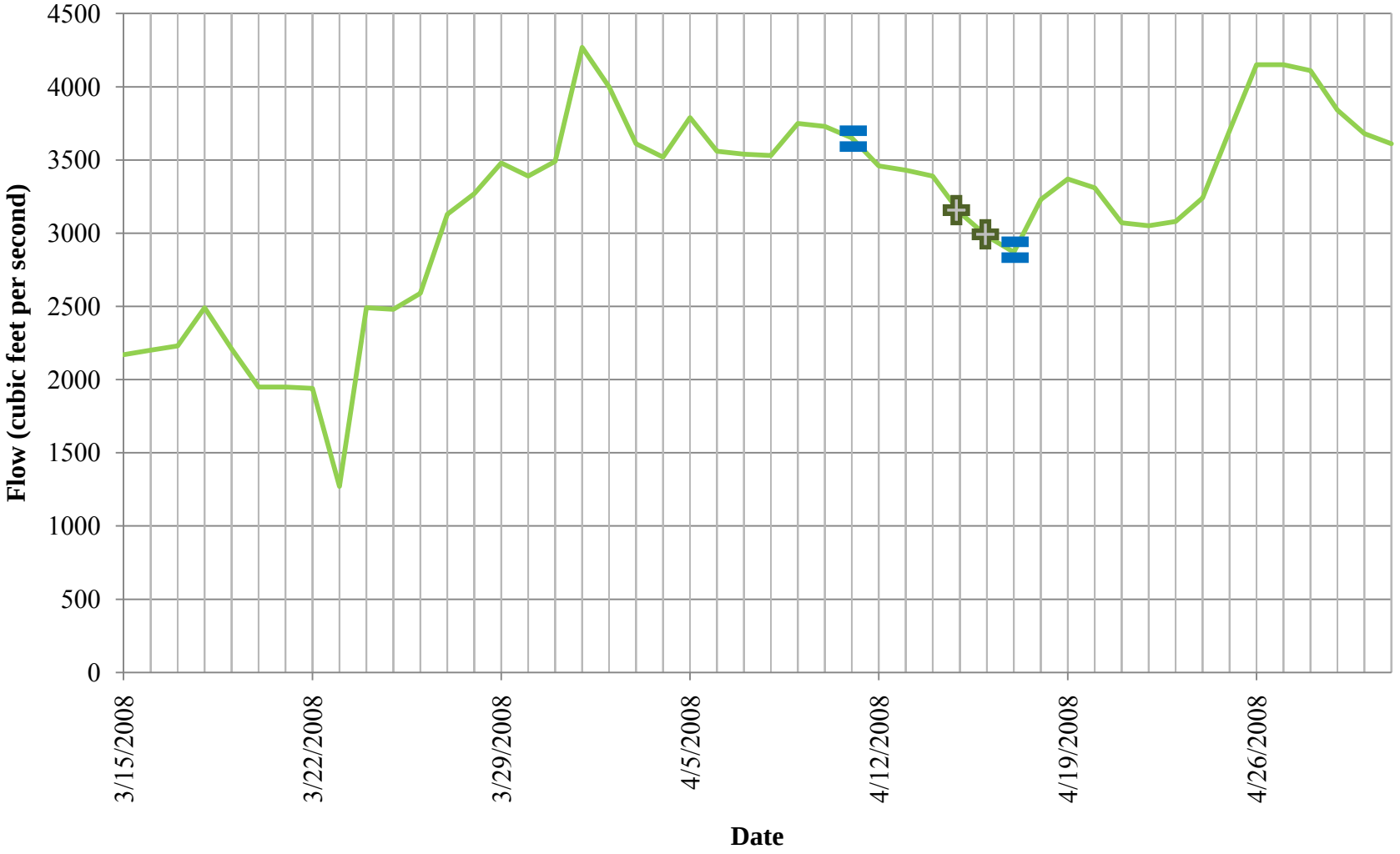


Figure 16. Mean Daily Discharge at USGS Gage 08329918, Rio Grande at Alameda Bridge at Alameda, NM, during Summer 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 1, Rio Grande at Bernalillo, NM, and Site 2, Rio Grande at Alameda, NM.]

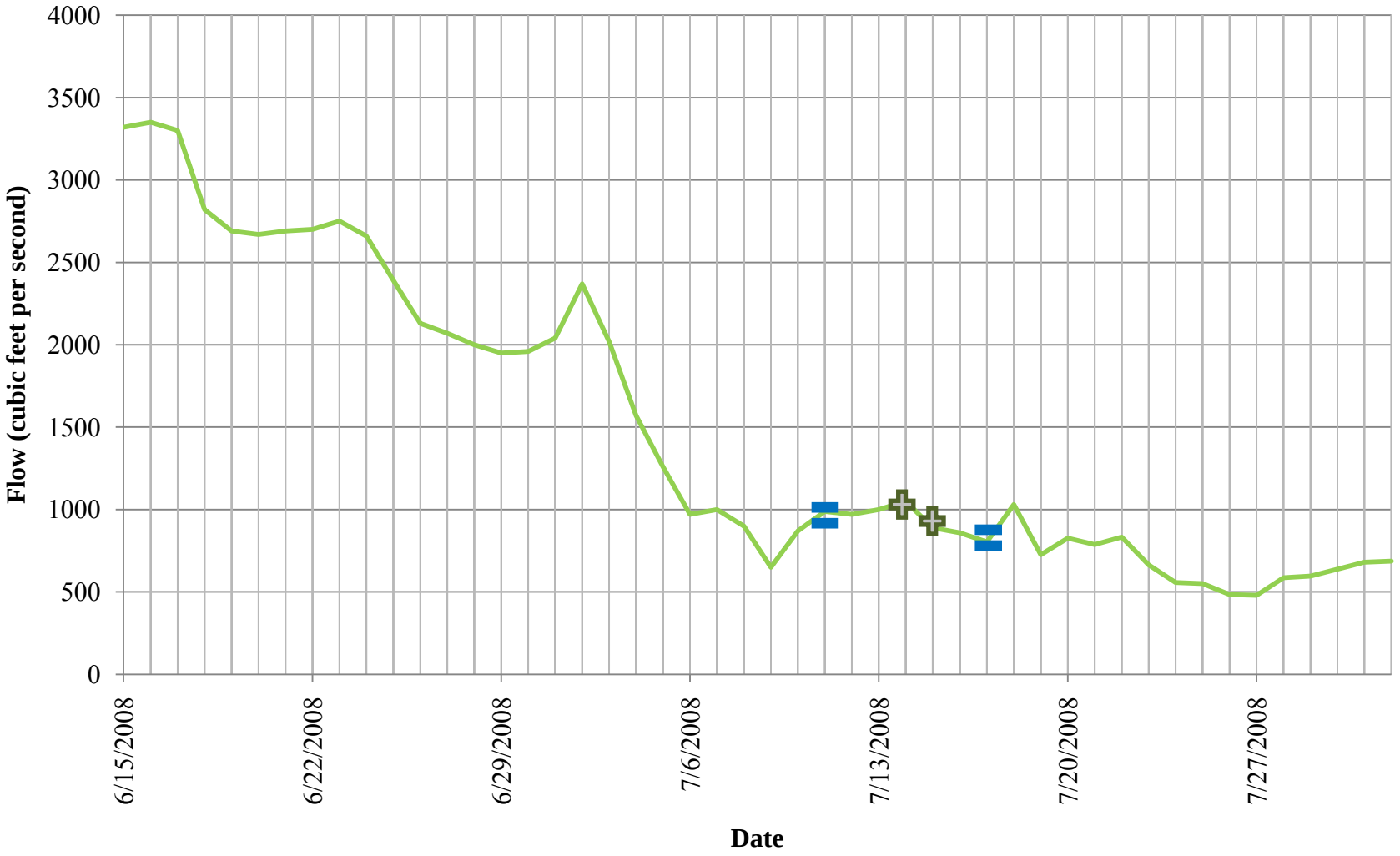


Figure 17. Mean Daily Discharge at USGS Gage 08330875, Rio Grande at Isleta Lakes near Isleta, NM, during Summer 2006.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 3, Rio Grande at Los Padillas, NM.]

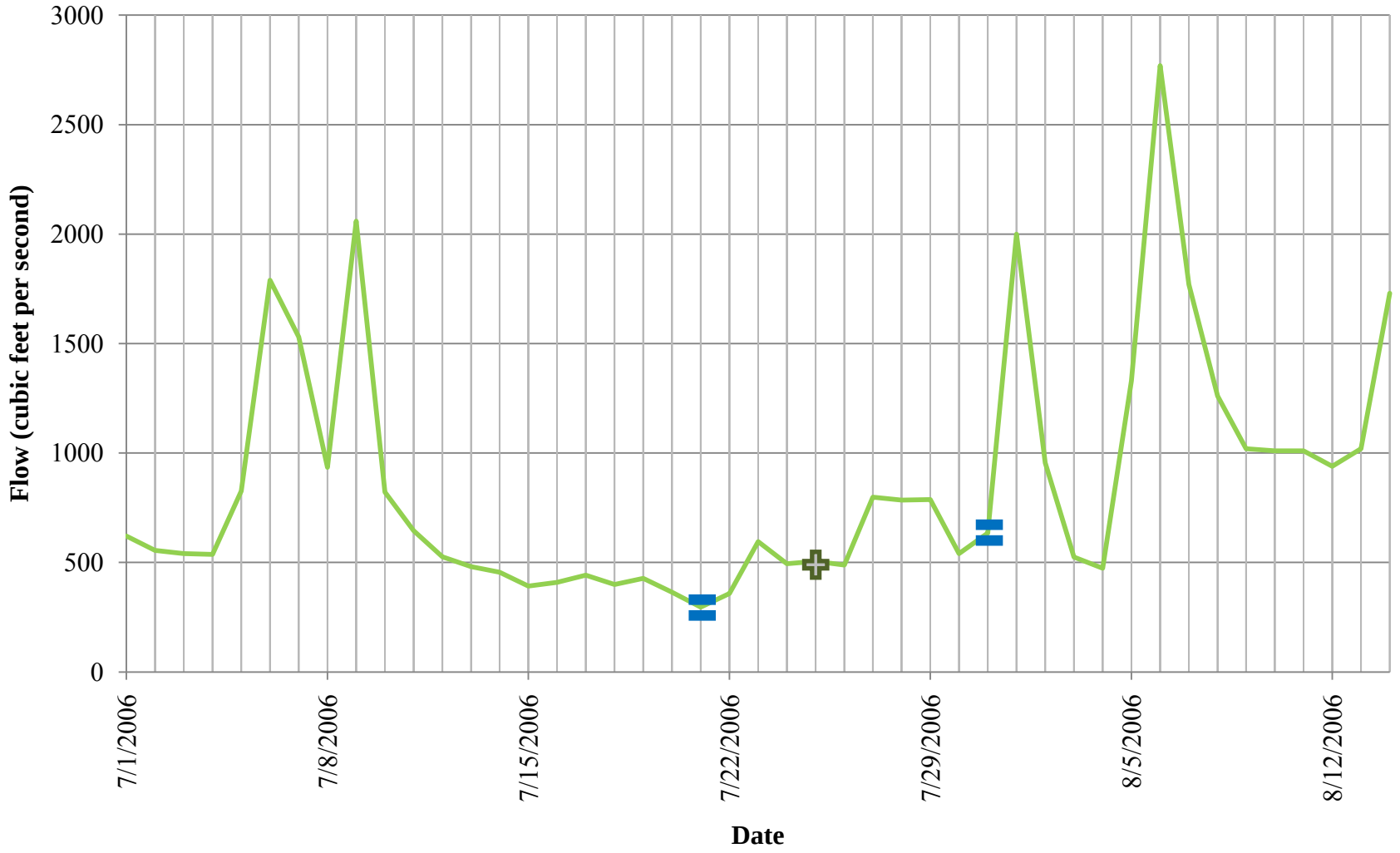


Figure 18. Mean Daily Discharge at USGS Gage 08330875, Rio Grande at Isleta Lakes near Isleta, NM, during Fall 2006.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 3, Rio Grande at Los Padillas, NM.]

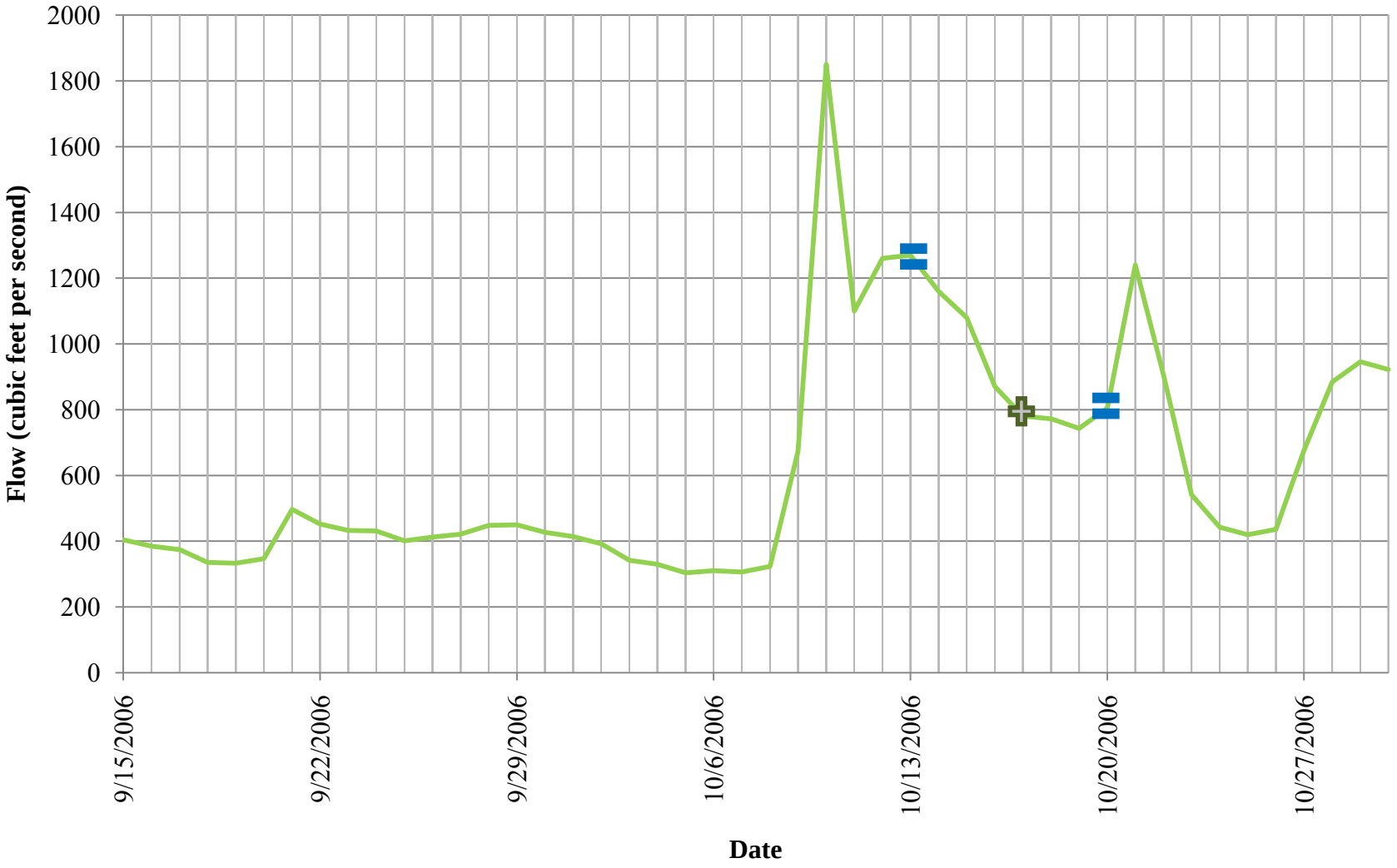


Figure 19. Mean Daily Discharge at USGS Gage 08330875, Rio Grande at Isleta Lakes near Isleta, NM, during Winter 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 3, Rio Grande at Los Padillas, NM.]

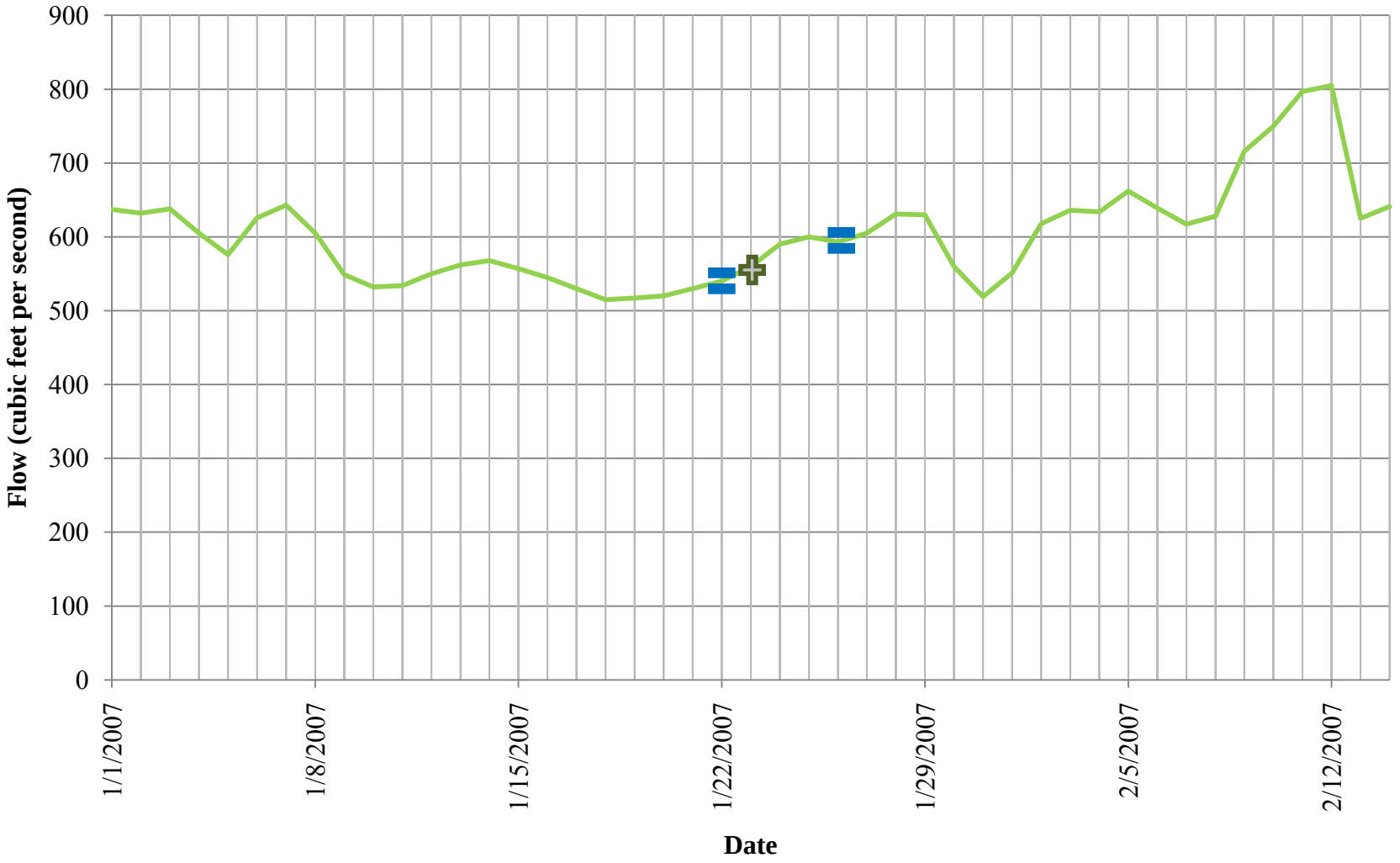


Figure 20. Mean Daily Discharge at USGS Gage 08330875, Rio Grande at Isleta Lakes near Isleta, NM, during Spring 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 3, Rio Grande at Los Padillas, NM.]



Figure 21. Mean Daily Discharge at USGS Gage 08330875, Rio Grande at Isleta Lakes near Isleta, NM, during Fall 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 3, Rio Grande at Los Padillas, NM.]

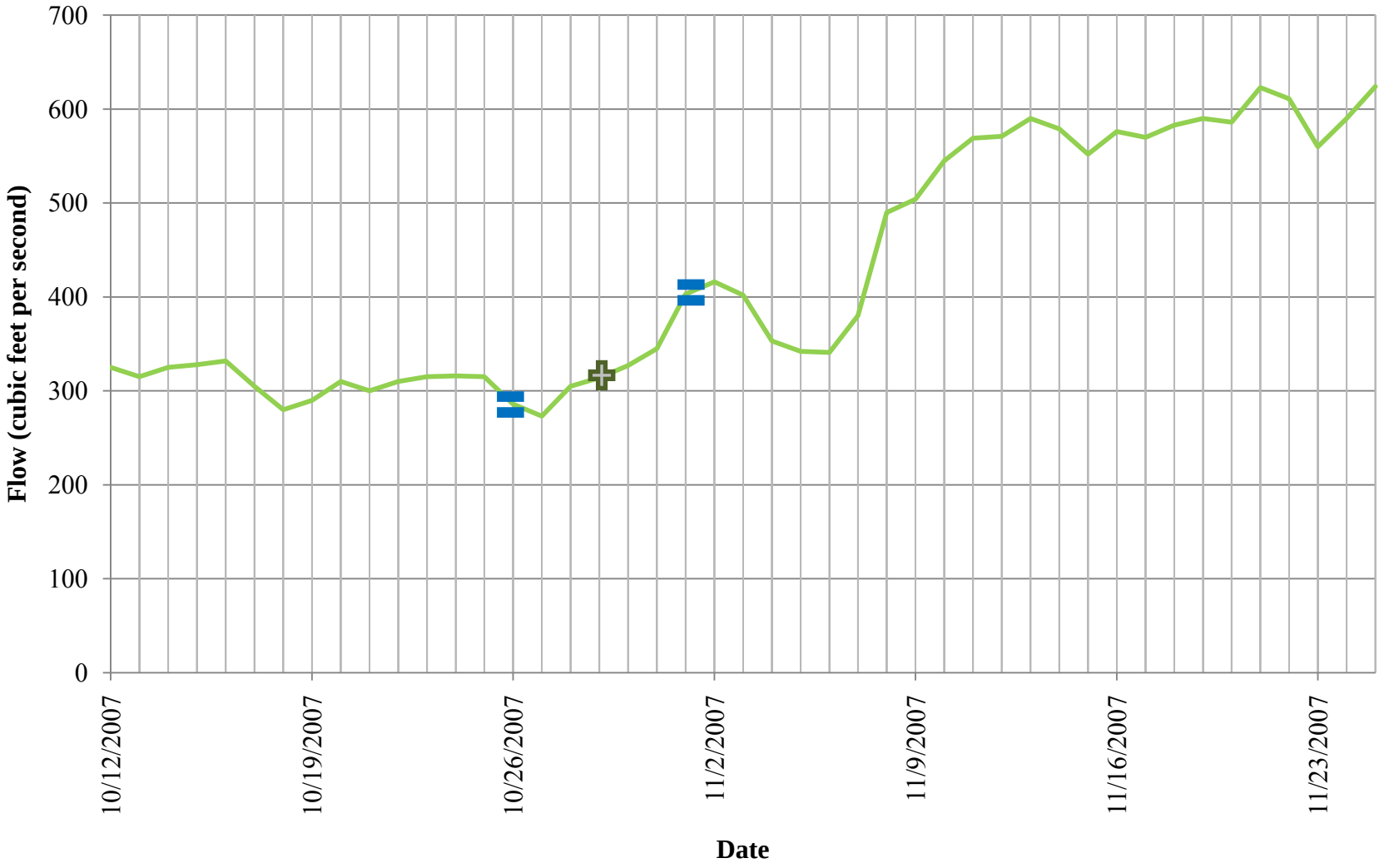


Figure 22. Mean Daily Discharge at USGS Gage 08330875, Rio Grande at Isleta Lakes near Isleta, NM, during Winter 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 3, Rio Grande at Los Padillas, NM.]

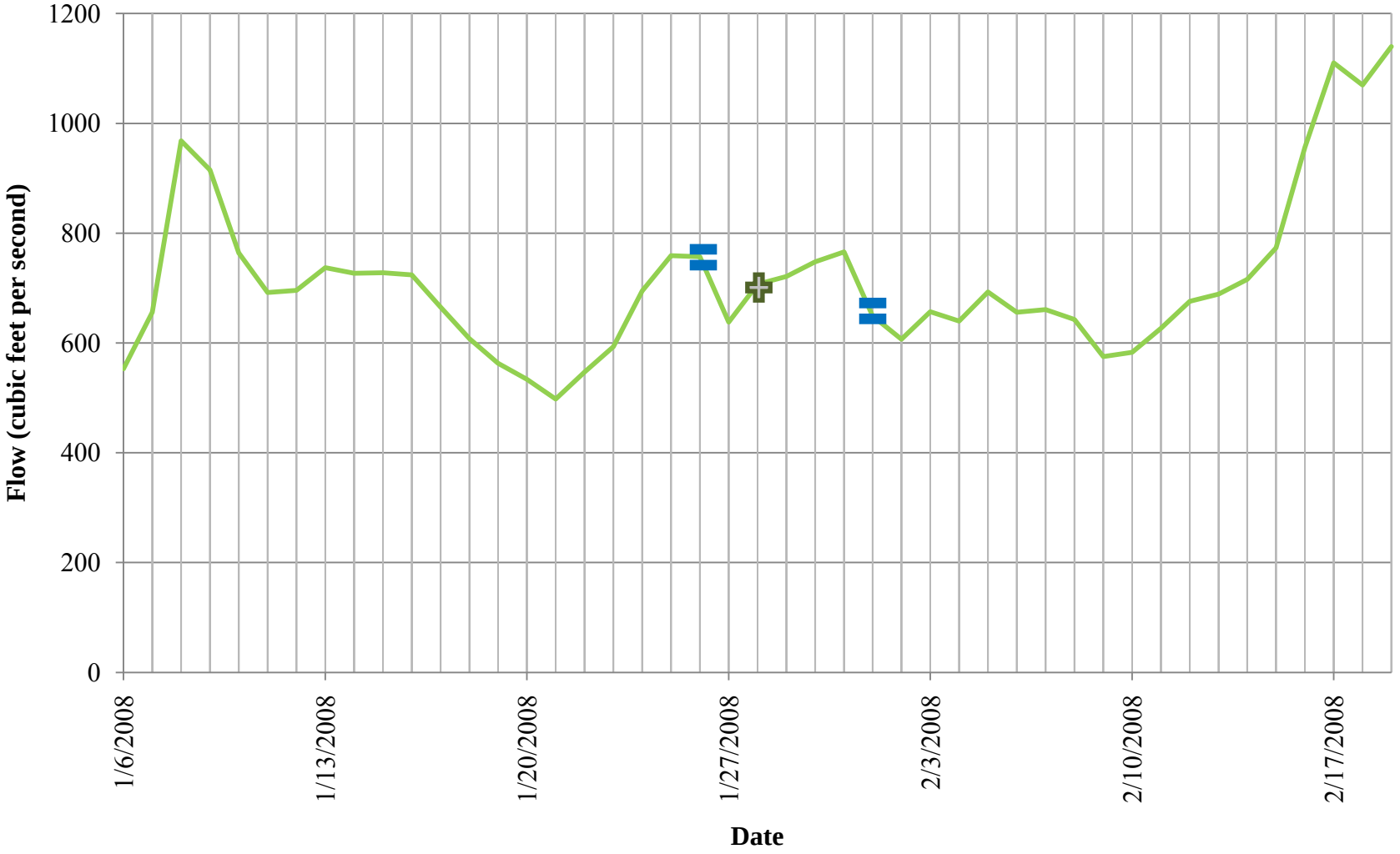


Figure 23. Mean Daily Discharge at USGS Gage 08330875, Rio Grande at Isleta Lakes near Isleta, NM, during Spring 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 3, Rio Grande at Los Padillas, NM.]

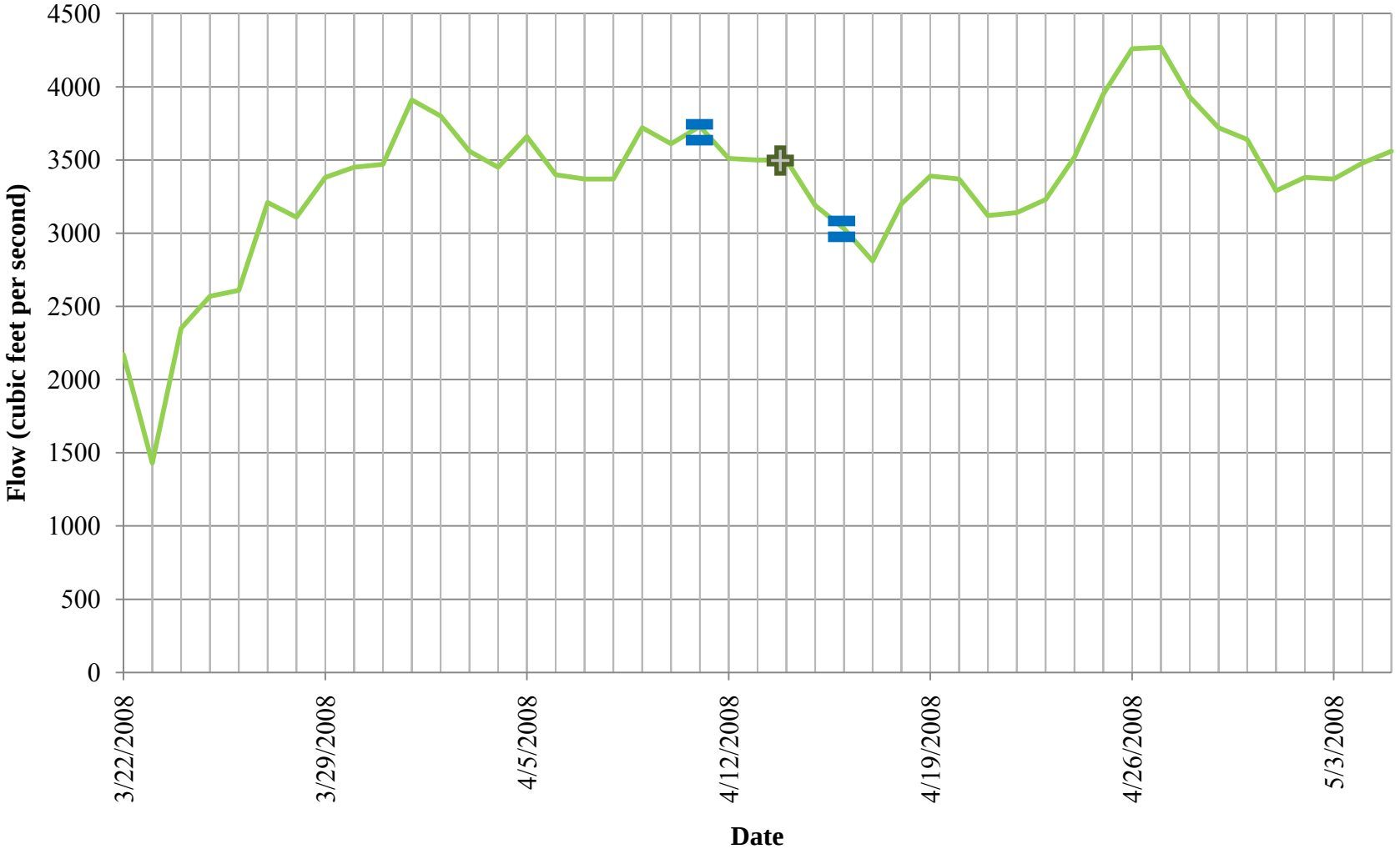


Figure 24. Mean Daily Discharge at USGS Gage 08330875, Rio Grande at Isleta Lakes near Isleta, NM, during Summer 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 3, Rio Grande at Los Padillas, NM.]

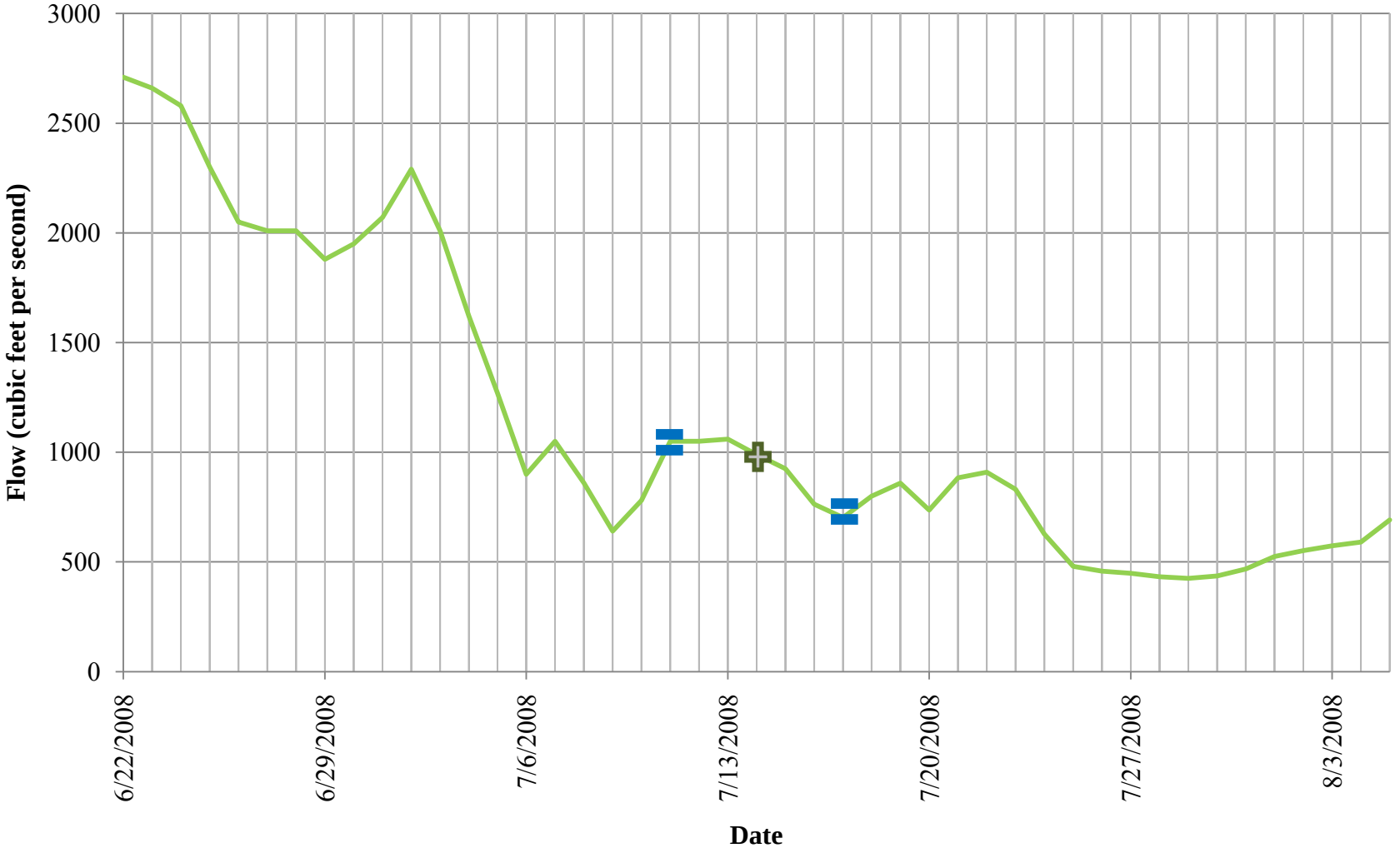


Figure 25. Mean Daily Discharge at USGS Gage 08331160, Rio Grande near Bosque Farms, NM, during Summer 2006.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 4, Rio Grande at Los Lunas, NM.]

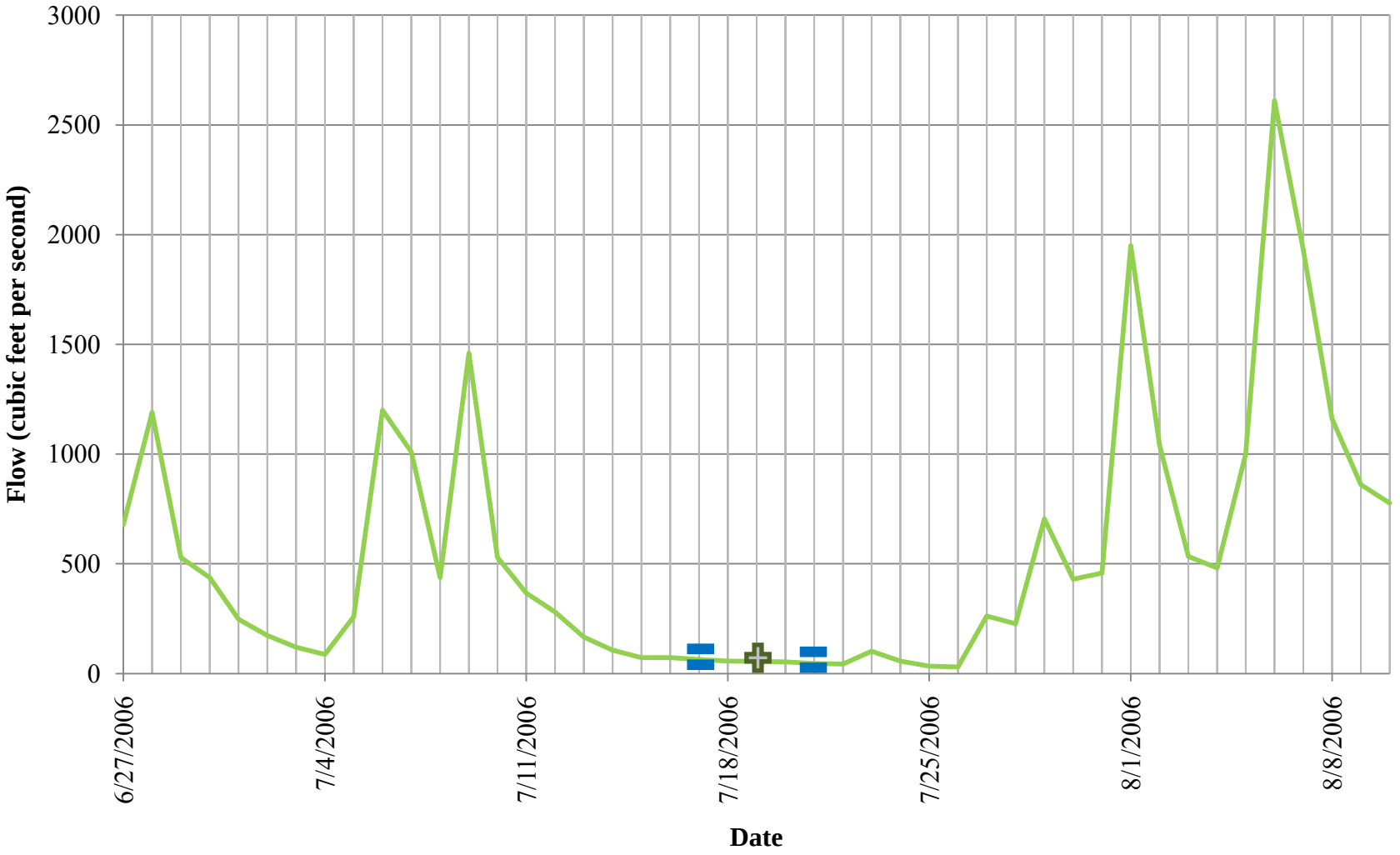


Figure 26. Mean Daily Discharge at USGS Gage 08331160, Rio Grande near Bosque Farms, NM, during Fall 2006.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 4, Rio Grande at Los Lunas, NM.]

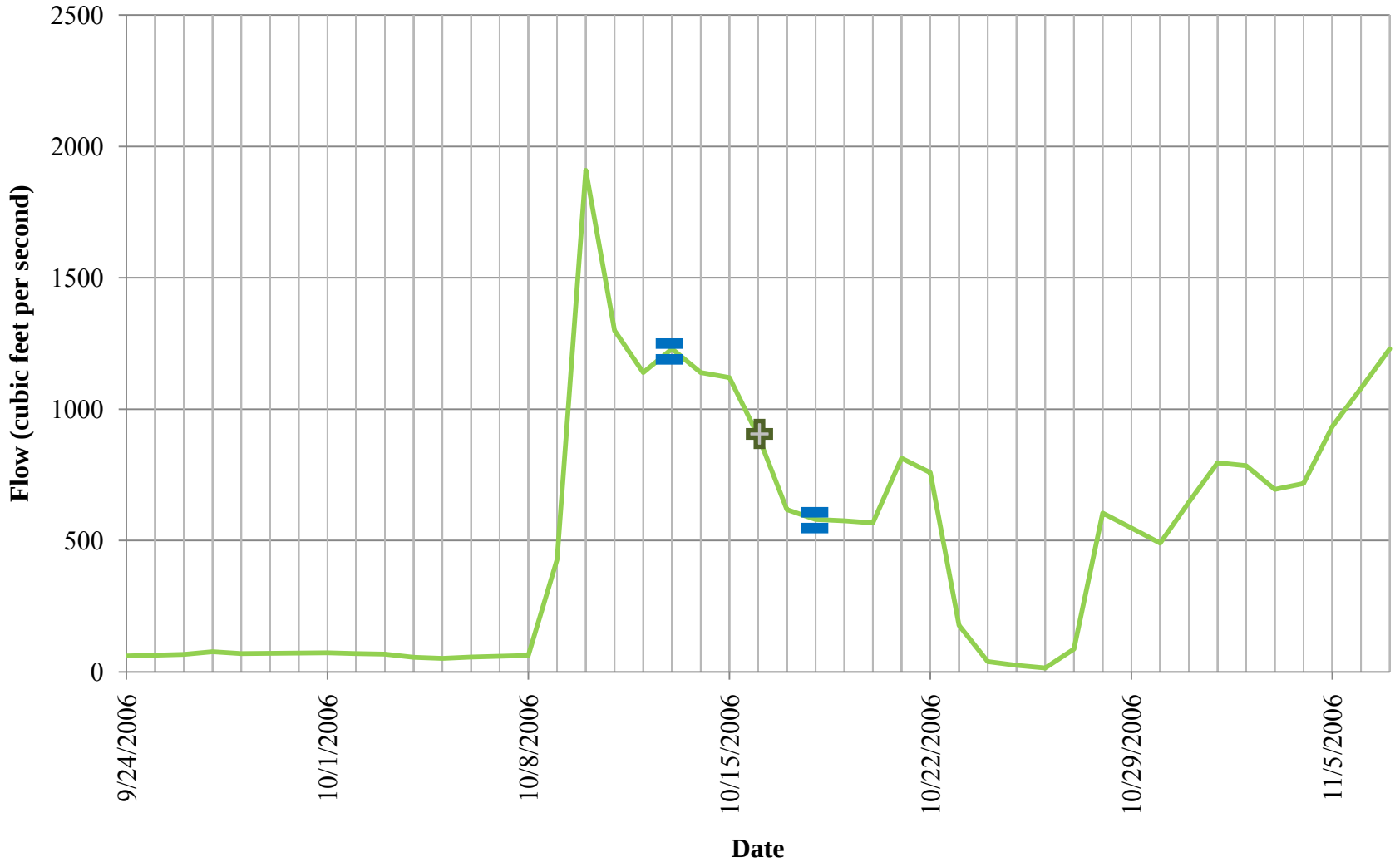


Figure 27. Mean Daily Discharge at USGS Gage 08331160, Rio Grande near Bosque Farms, NM, during Winter 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 4, Rio Grande at Los Lunas, NM.]

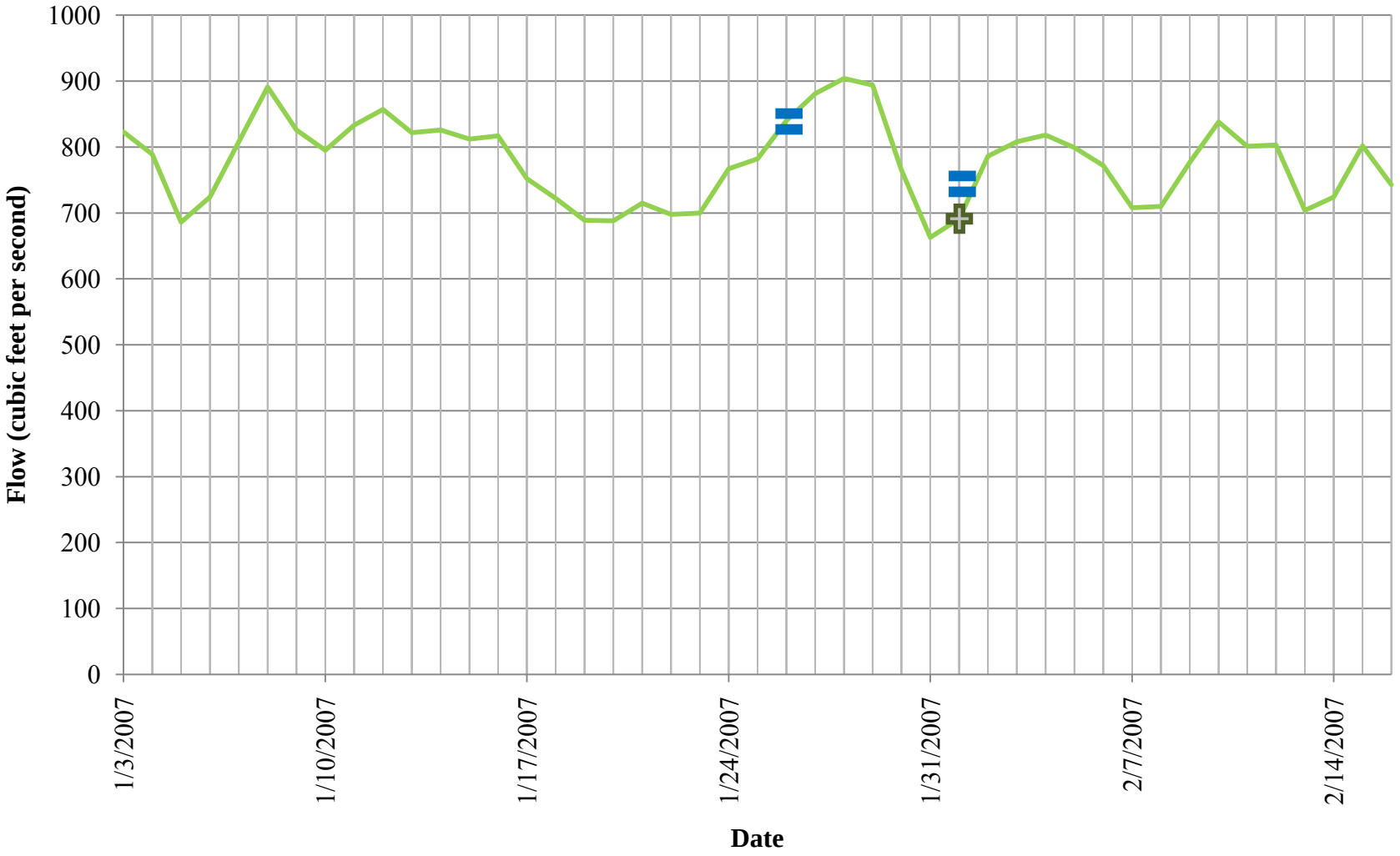


Figure 28. Mean Daily Discharge at USGS Gage 08331160, Rio Grande near Bosque Farms, NM, during Spring 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 4, Rio Grande at Los Lunas, NM.]

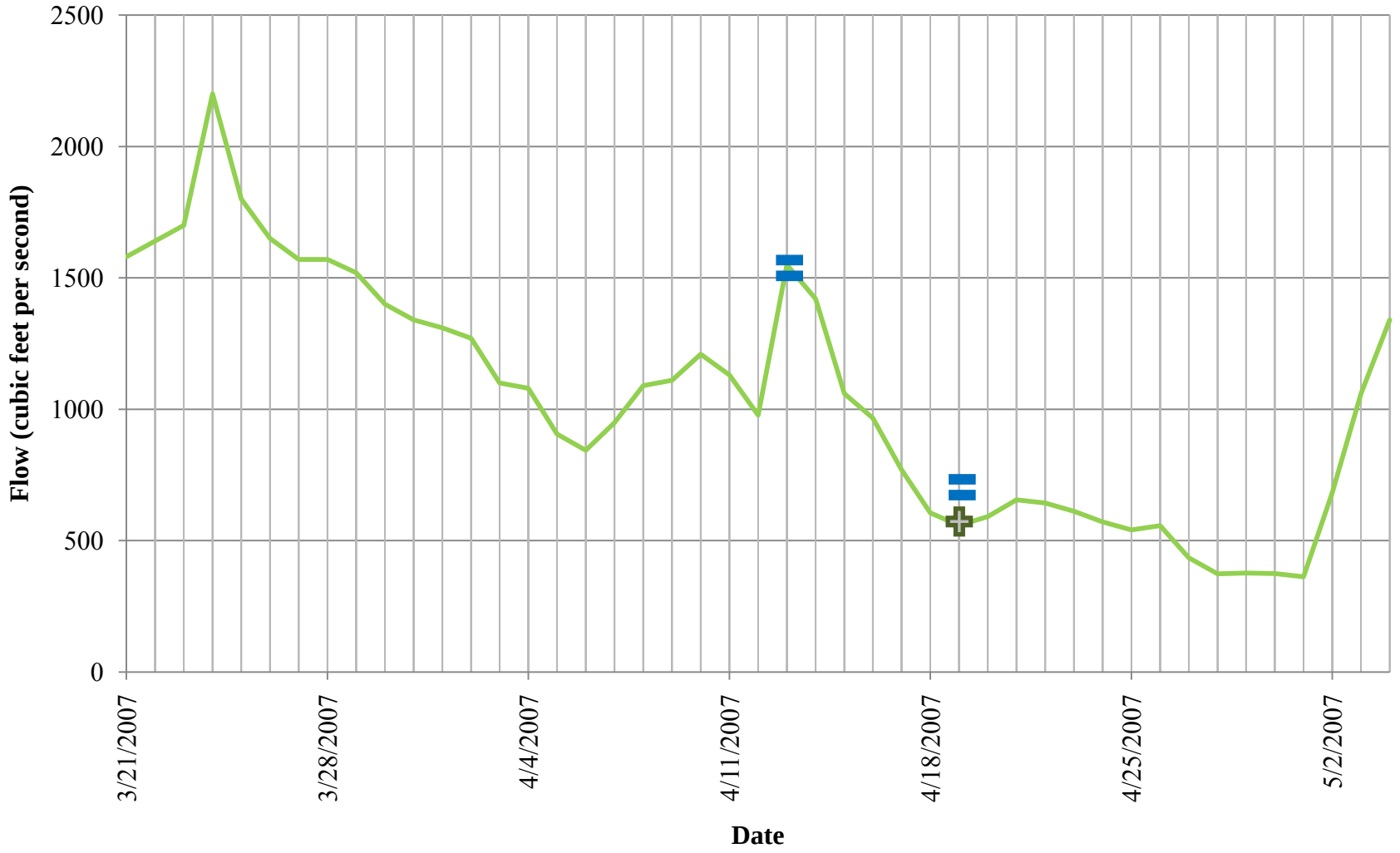


Figure 29. Mean Daily Discharge at USGS Gage 08331160, Rio Grande near Bosque Farms, NM, during Fall 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 4, Rio Grande at Los Lunas, NM.]

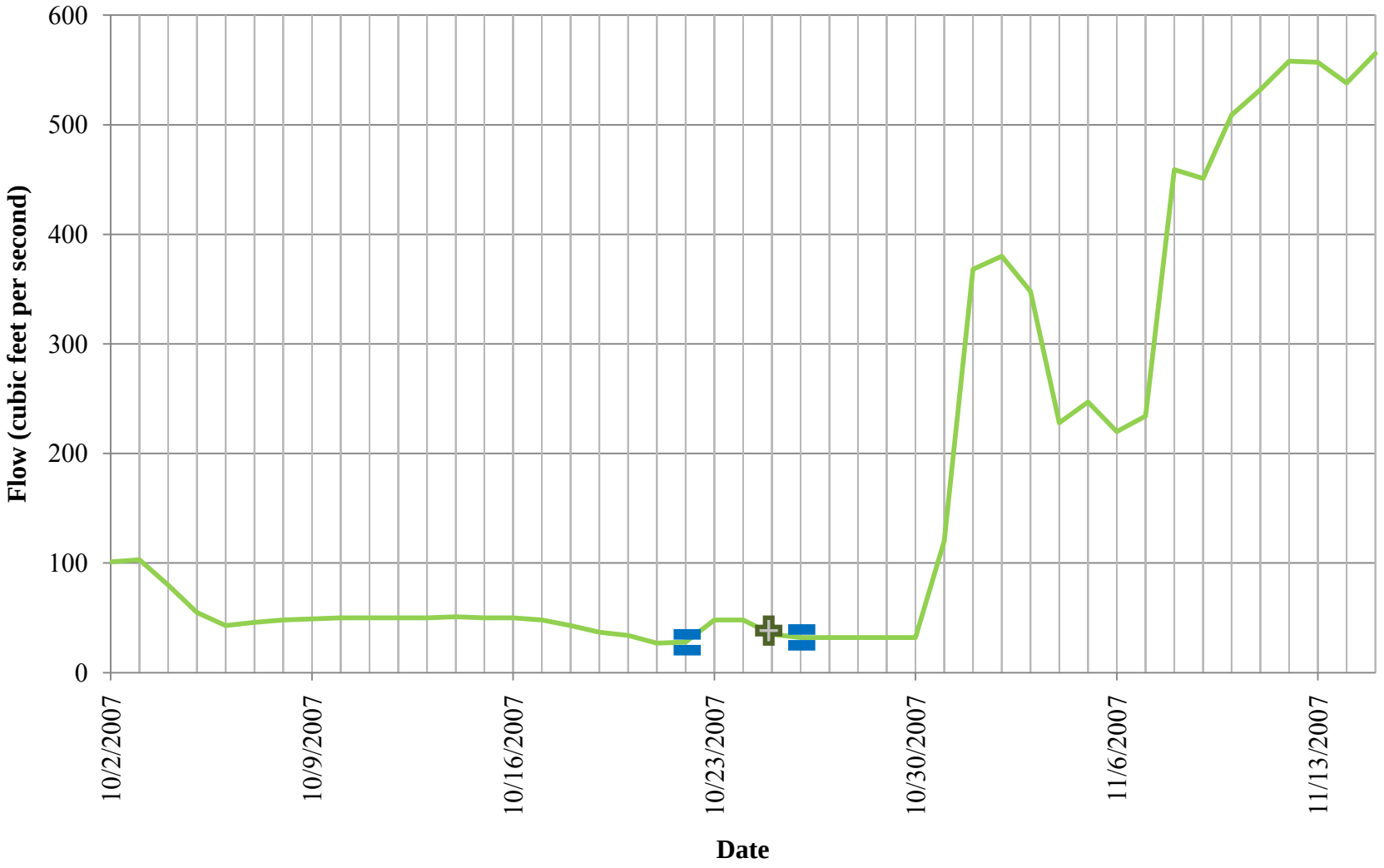


Figure 30. Mean Daily Discharge at USGS Gage 08331160, Rio Grande near Bosque Farms, NM, during Winter 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 4, Rio Grande at Los Lunas, NM.]

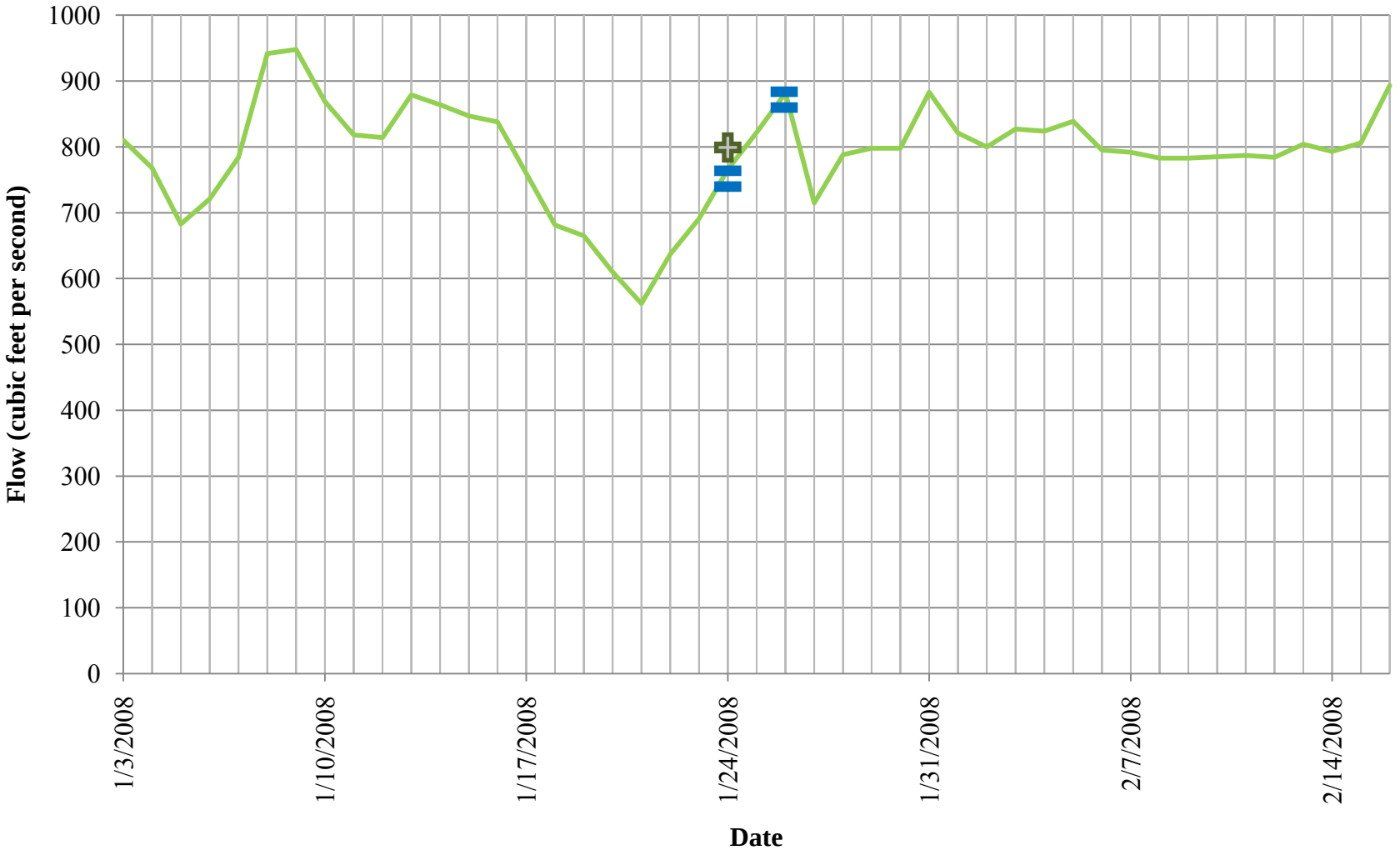


Figure 31. Mean Daily Discharge at USGS Gage 08331160, Rio Grande near Bosque Farms, NM, during Spring 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 4, Rio Grande at Los Lunas, NM.]

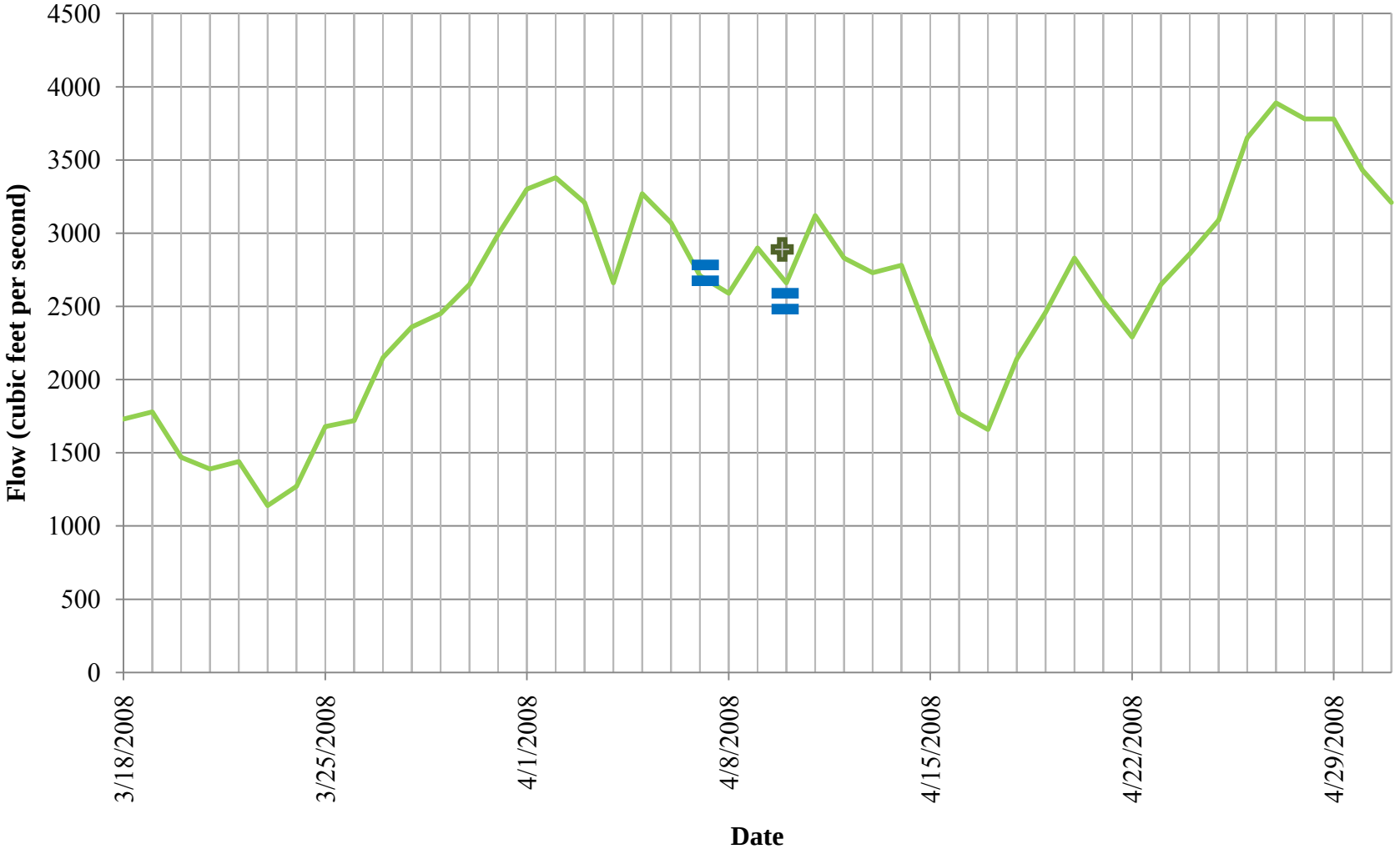


Figure 32. Mean Daily Discharge at USGS Gage 08331160, Rio Grande near Bosque Farms, NM, during Summer 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 4, Rio Grande at Los Lunas, NM.]

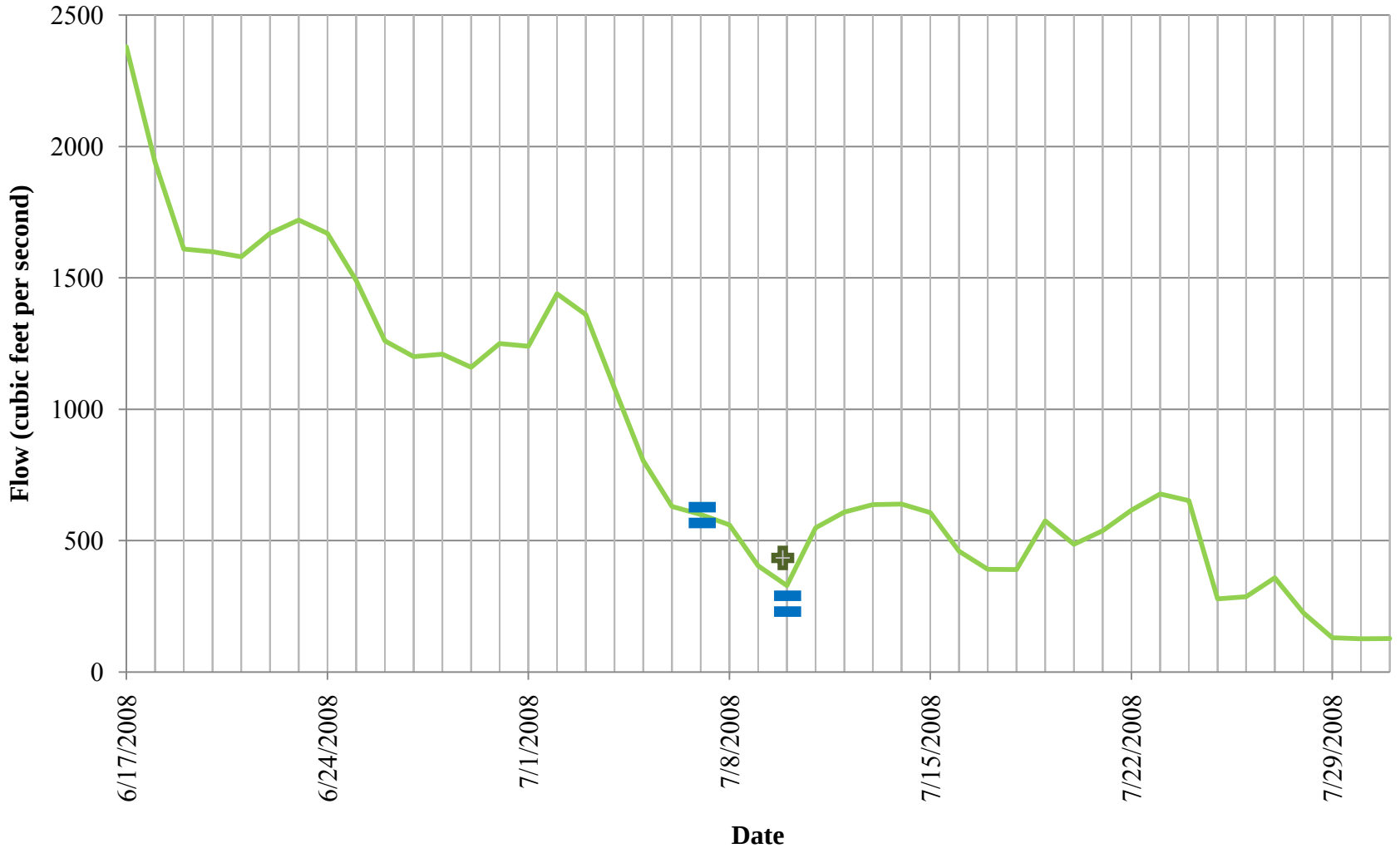


Figure 33. Sum of the Mean Daily Discharge at USGS Gage 08331510, Rio Grande at State Highway 346 near Bosque, NM, and USGS Gage 08353000 Rio Puerco near Bernardo, NM, during Summer 2006.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 5, Rio Grande at La Joya, NM.]

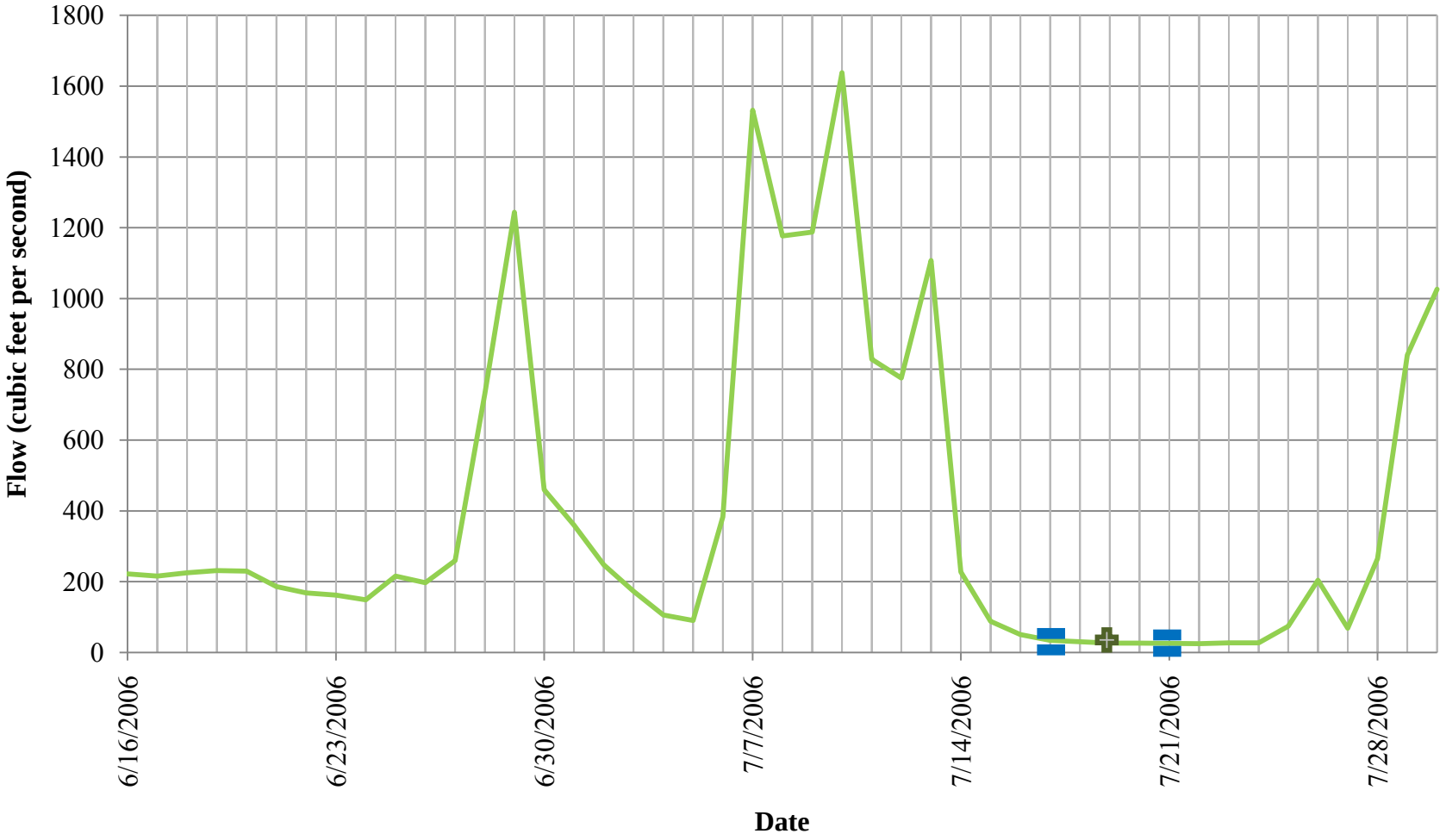


Figure 34. Sum of the Mean Daily Discharge at USGS Gage 08331510, Rio Grande at State Highway 346 near Bosque, NM, and USGS Gage 08353000 Rio Puerco near Bernardo, NM, during Fall 2006.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 5, Rio Grande at La Joya, NM.]

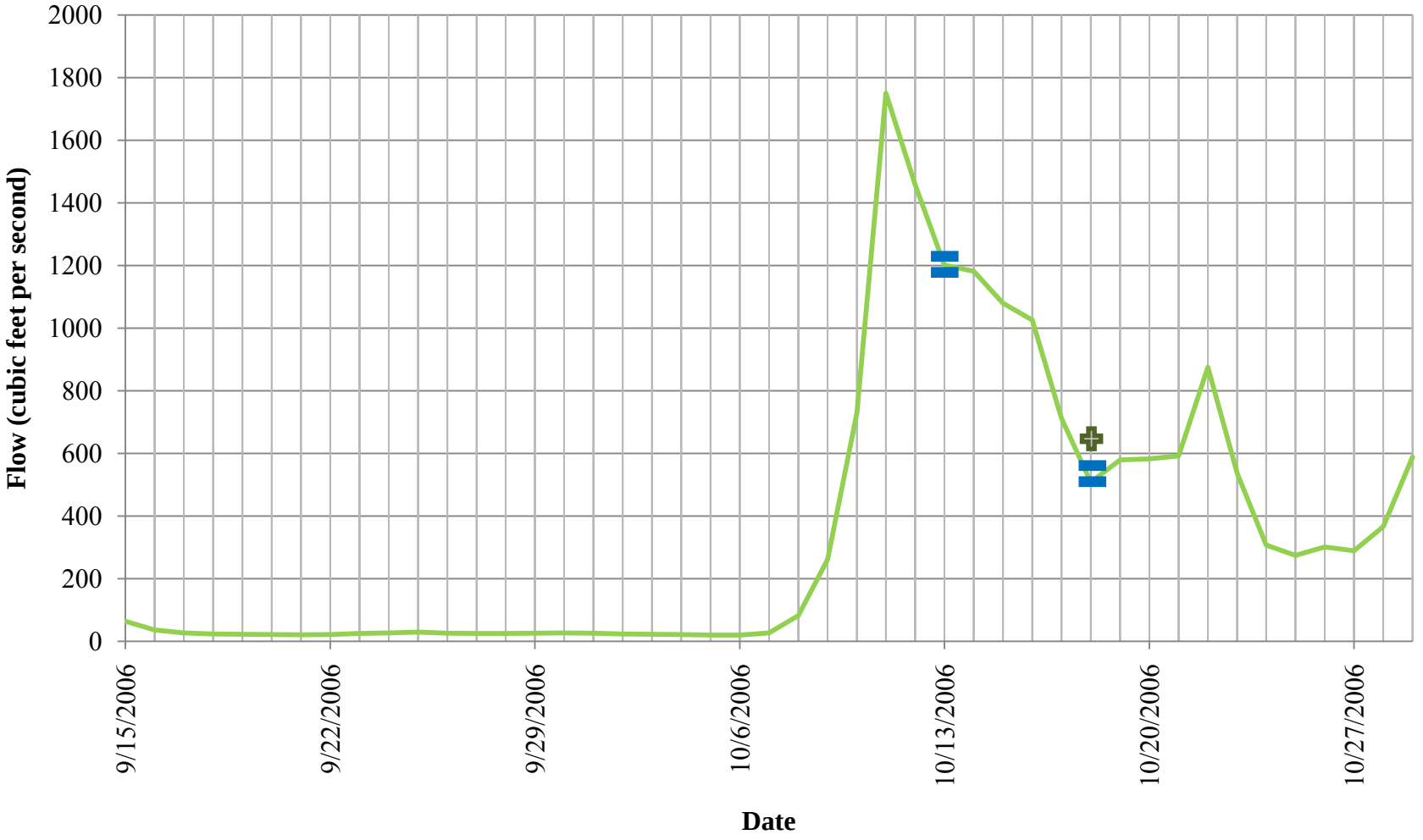


Figure 35. Sum of the Mean Daily Discharge at USGS Gage 08331510, Rio Grande at State Highway 346 near Bosque, NM, and USGS Gage 08353000 Rio Puerco near Bernardo, NM, during Winter 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 5, Rio Grande at La Joya, NM.]

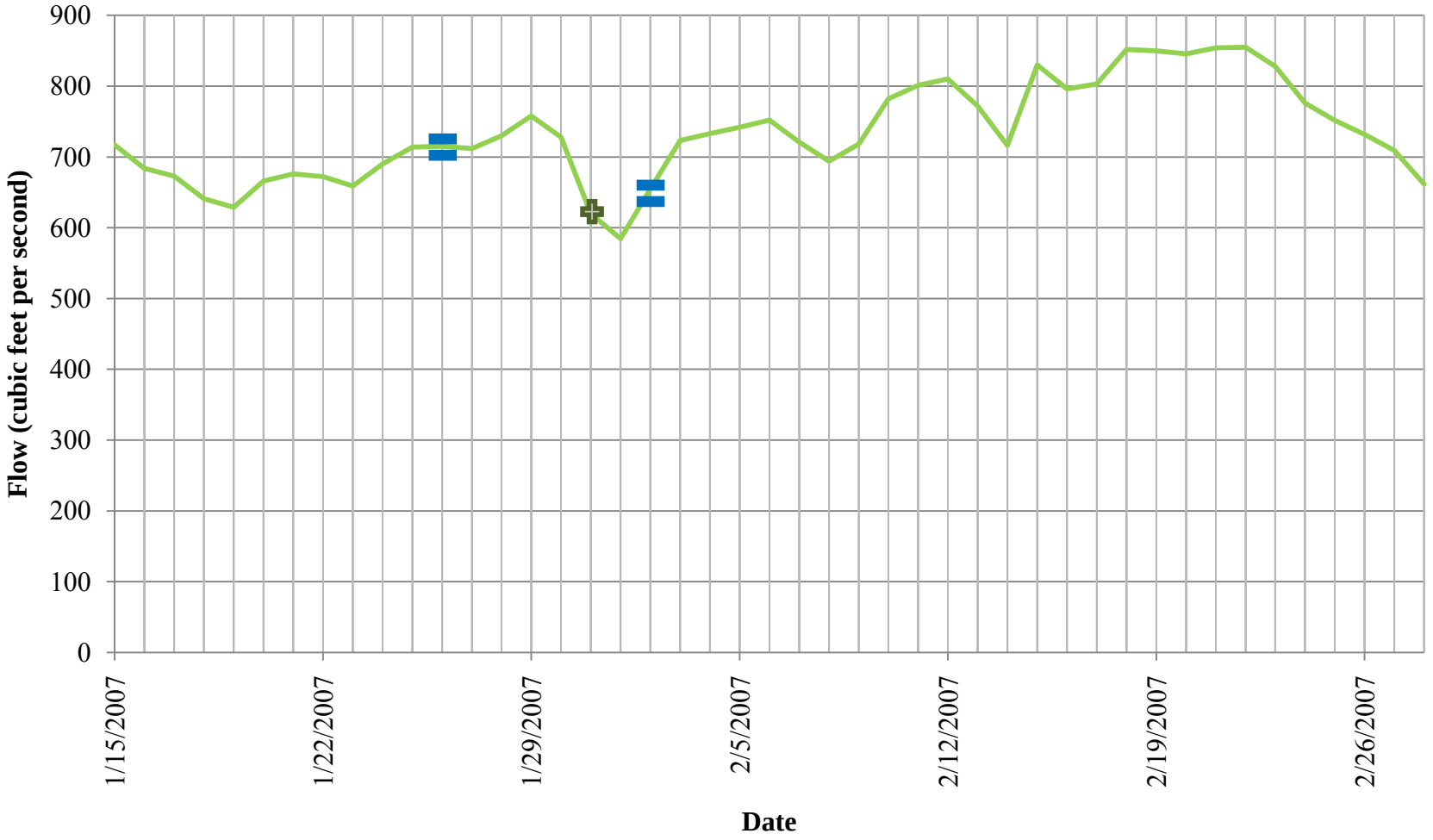


Figure 36. Sum of the Mean Daily Discharge at USGS Gage 08331510, Rio Grande at State Highway 346 near Bosque, NM, and USGS Gage 08353000 Rio Puerco near Bernardo, NM, during Spring 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 5, Rio Grande at La Joya, NM.]

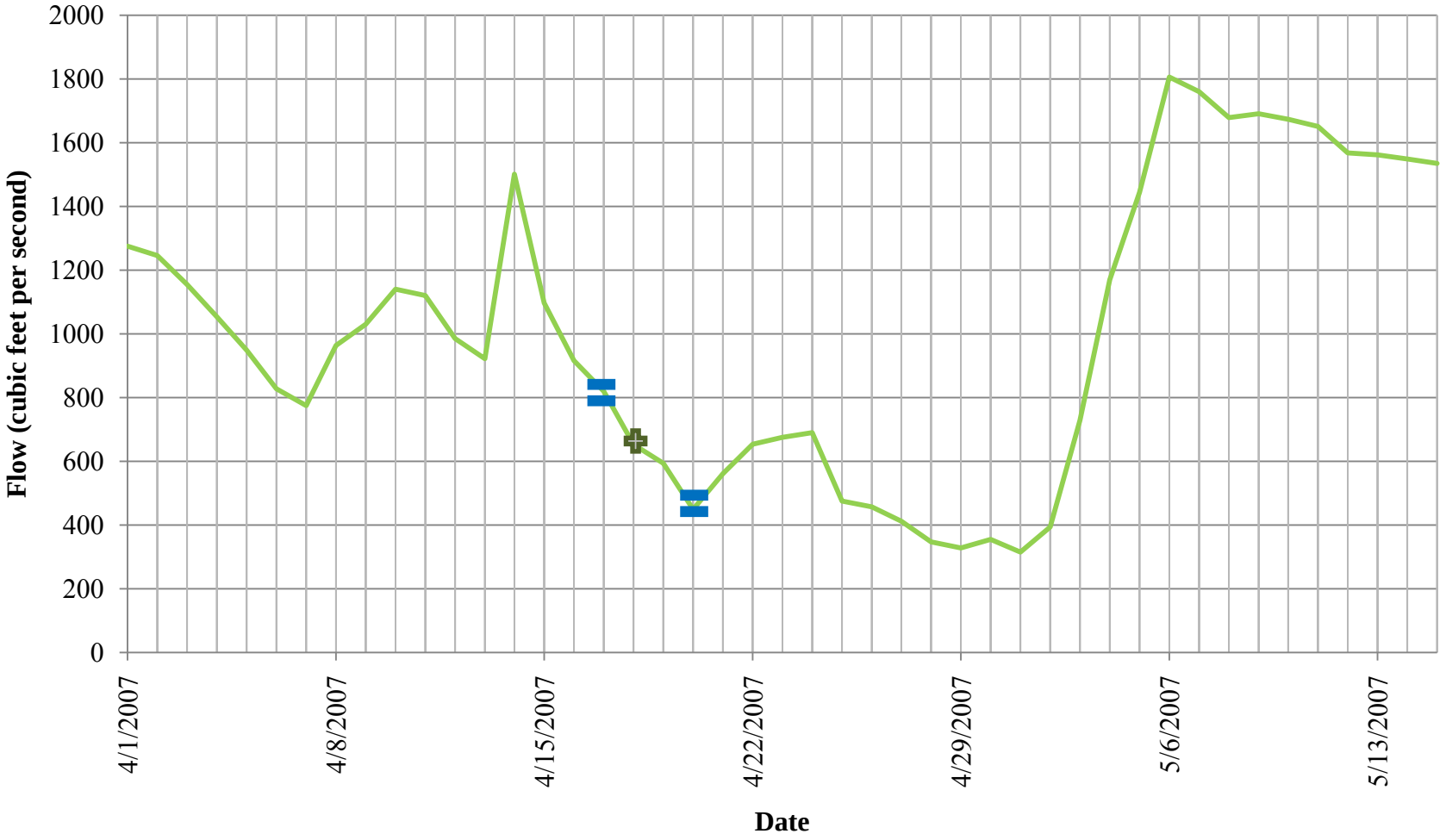


Figure 37. Sum of the Mean Daily Discharge at USGS Gage 08331510, Rio Grande at State Highway 346 near Bosque, NM, and USGS Gage 08353000 Rio Puerco near Bernardo, NM, during Fall 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 5, Rio Grande at La Joya, NM.]

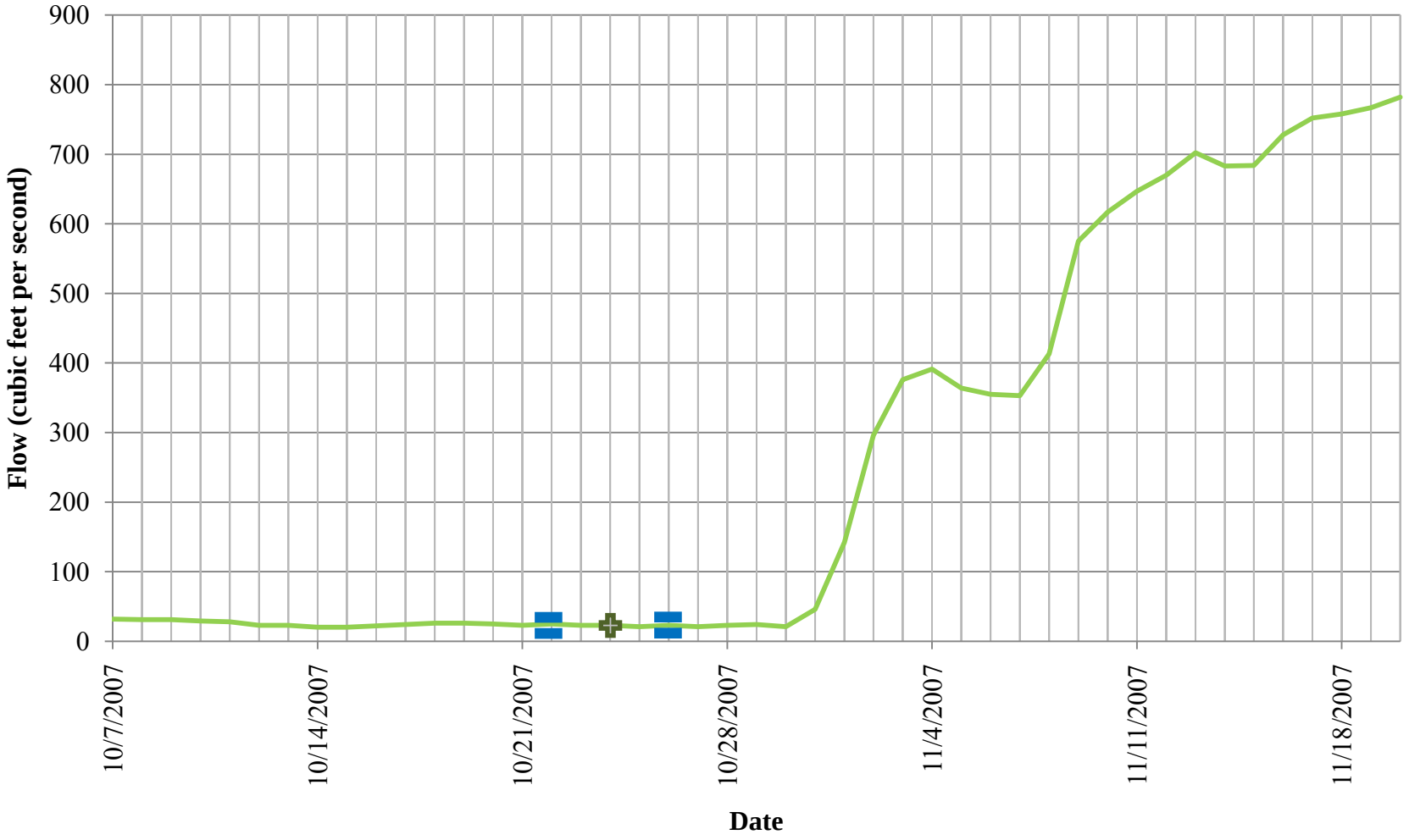


Figure 38. Sum of the Mean Daily Discharge at USGS Gage 08331510, Rio Grande at State Highway 346 near Bosque, NM, and USGS Gage 08353000 Rio Puerco near Bernardo, NM, during Winter 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 5, Rio Grande at La Joya, NM.]

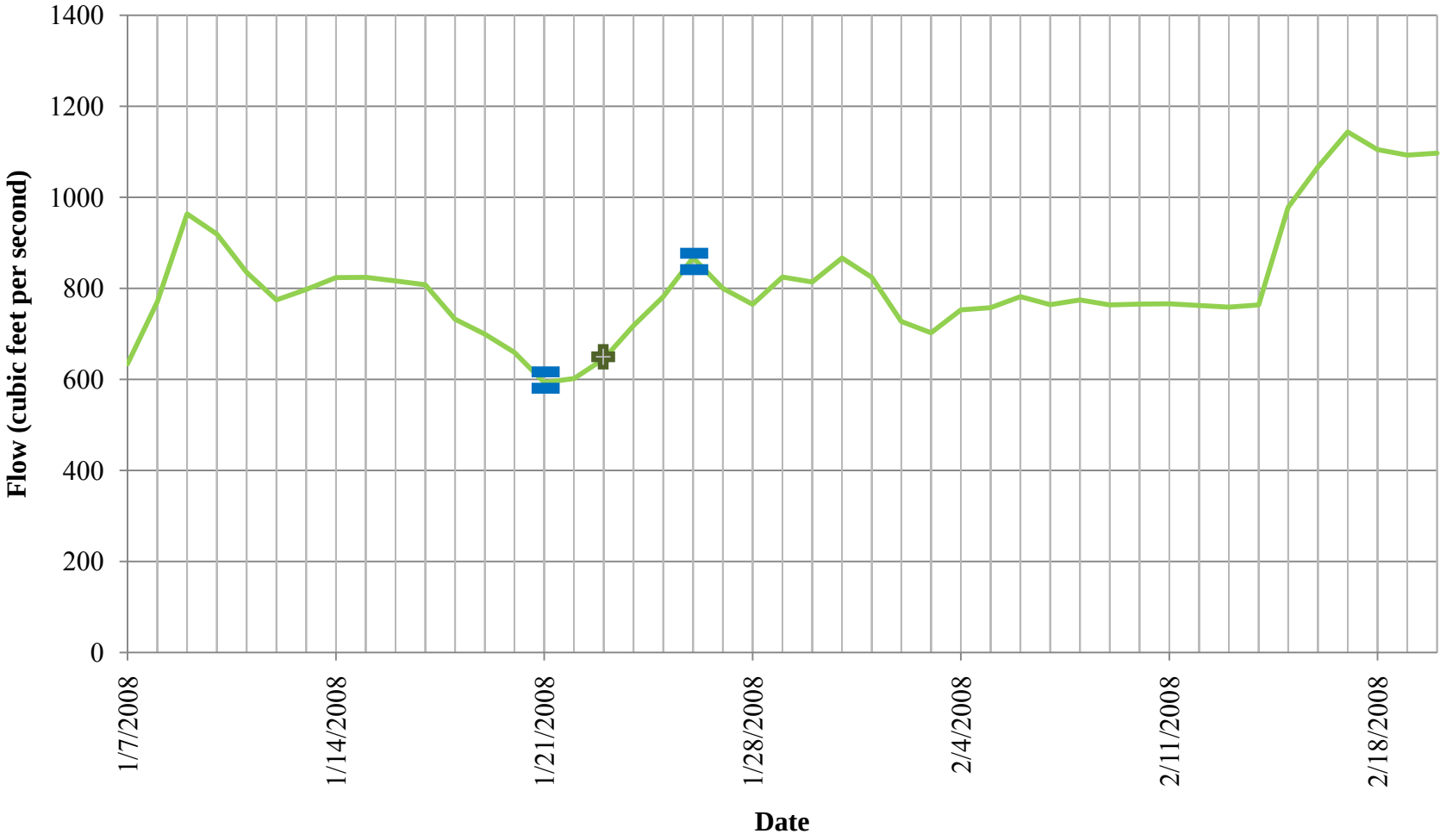


Figure 39. Sum of the Mean Daily Discharge at USGS Gage 08331510, Rio Grande at State Highway 346 near Bosque, NM, and USGS Gage 08353000 Rio Puerco near Bernardo, NM, during Spring 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 5, Rio Grande at La Joya, NM.]

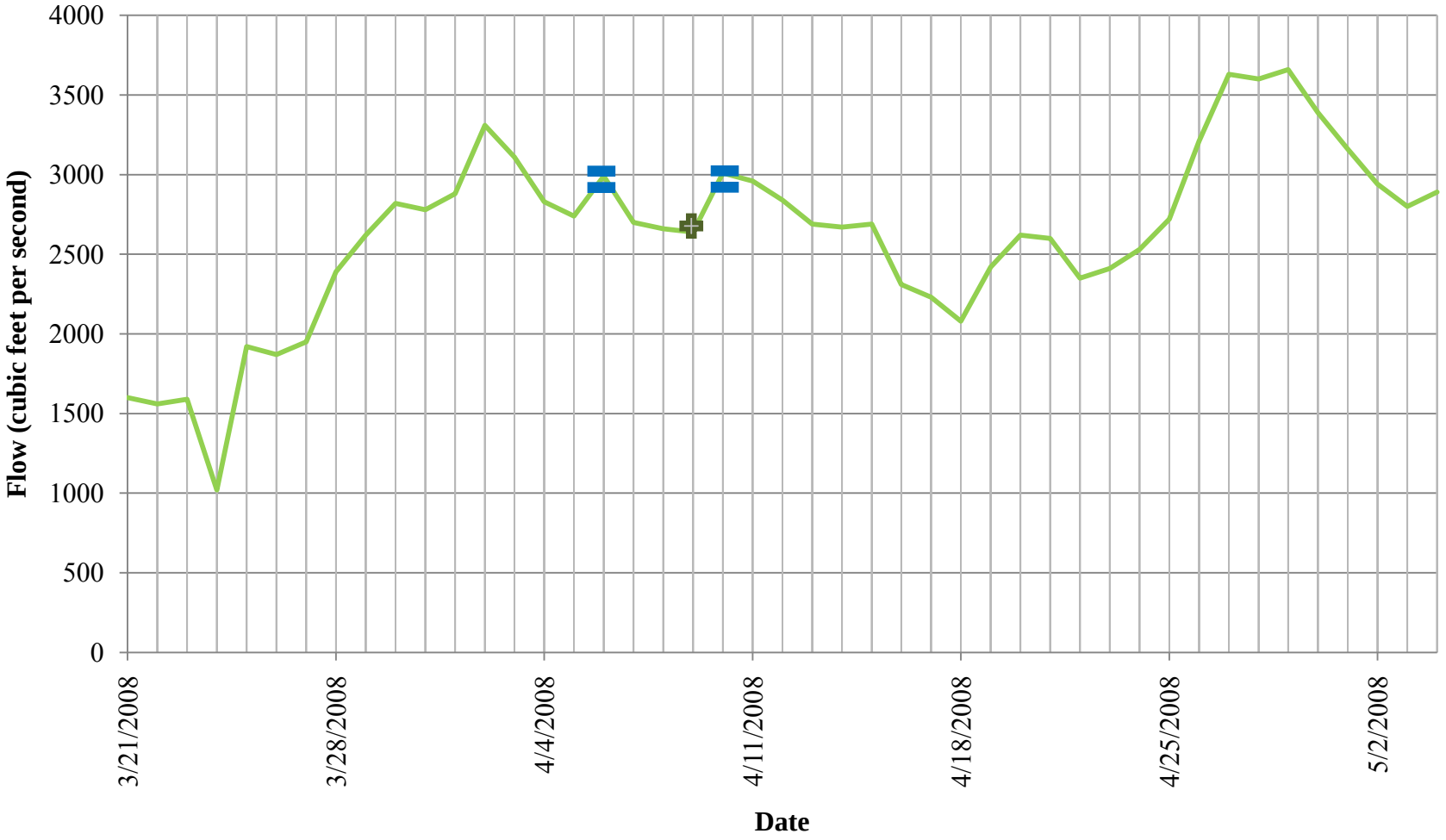


Figure 40. Sum of the Mean Daily Discharge at USGS Gage 08331510, Rio Grande at State Highway 346 near Bosque, NM, and USGS Gage 08353000 Rio Puerco near Bernardo, NM, during Summer 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 5, Rio Grande at La Joya, NM.]

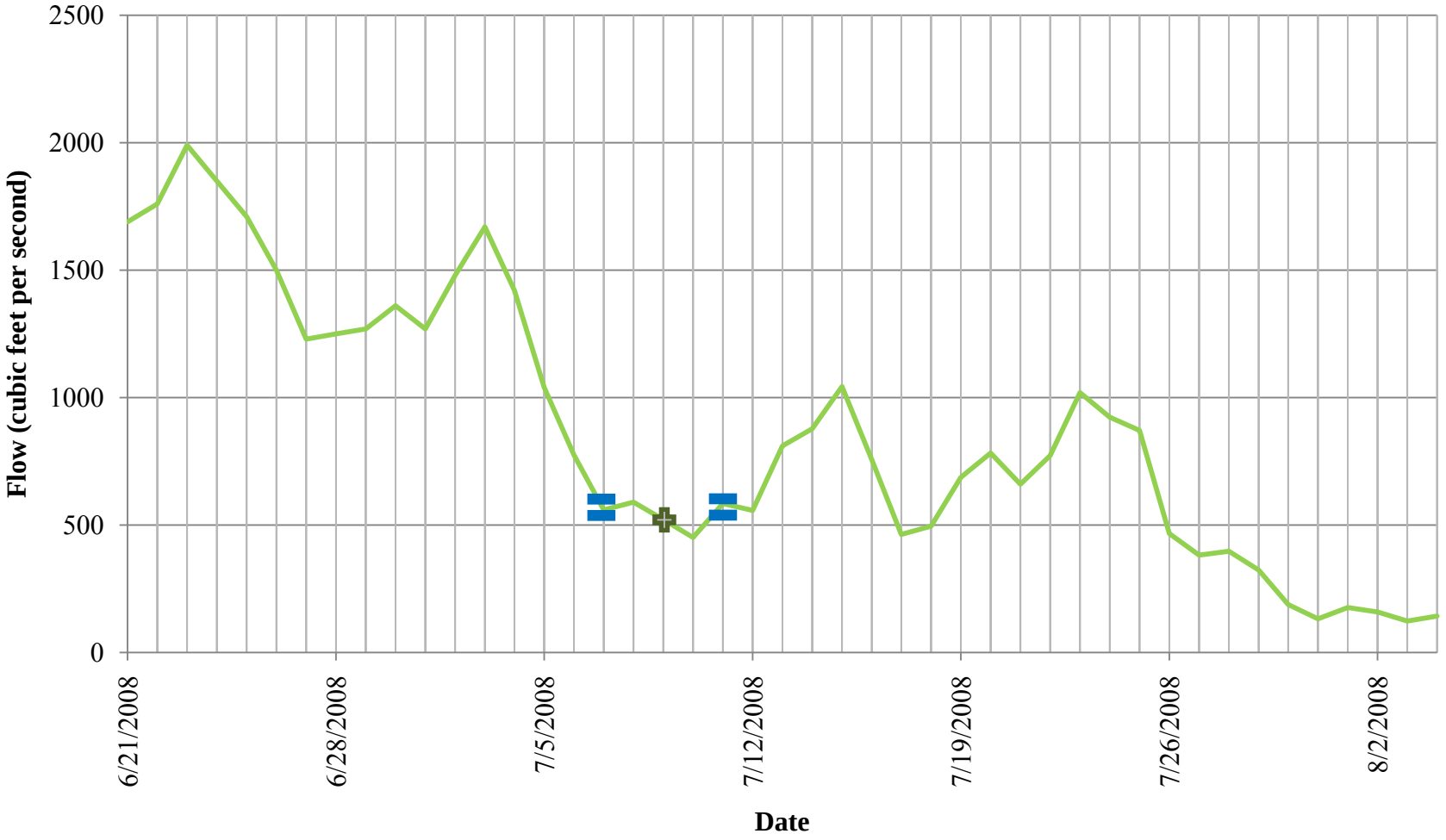


Figure 41. Mean Daily Discharge at USGS Gage 08355490, Rio Grande above US Highway 380 near San Antonio, NM, during Summer 2006.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 6, Rio Grande near San Antonio, NM.]

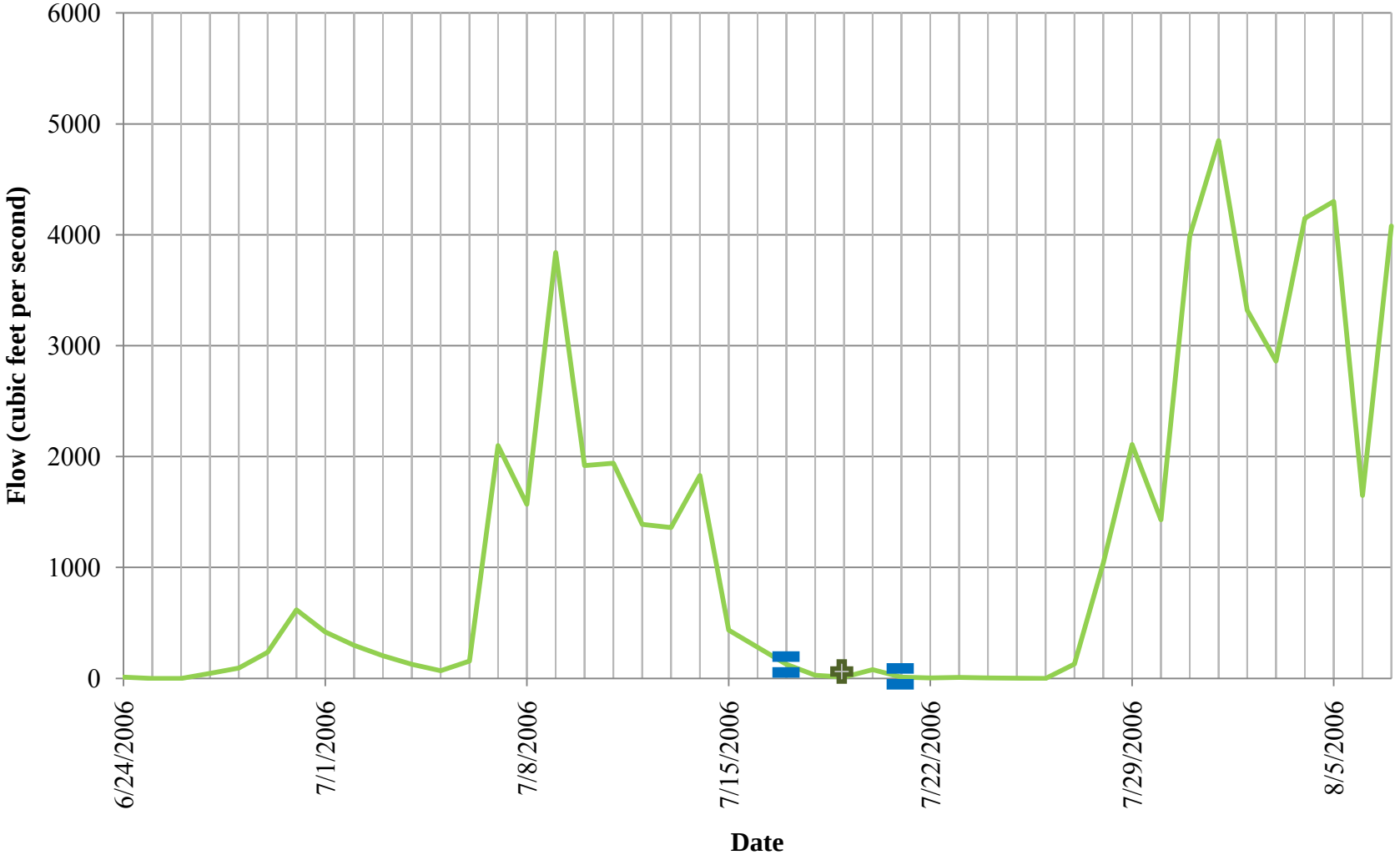


Figure 42. Mean Daily Discharge at USGS Gage 08355490, Rio Grande above US Highway 380 near San Antonio, NM, during Fall 2006.

["=", indicates start and end of continuous water quality monitoring at Rio Grande near Lemitar, NM.] ; and
"+", indicates fish collection event at Site 6, Rio Grande near San Antonio, NM.]

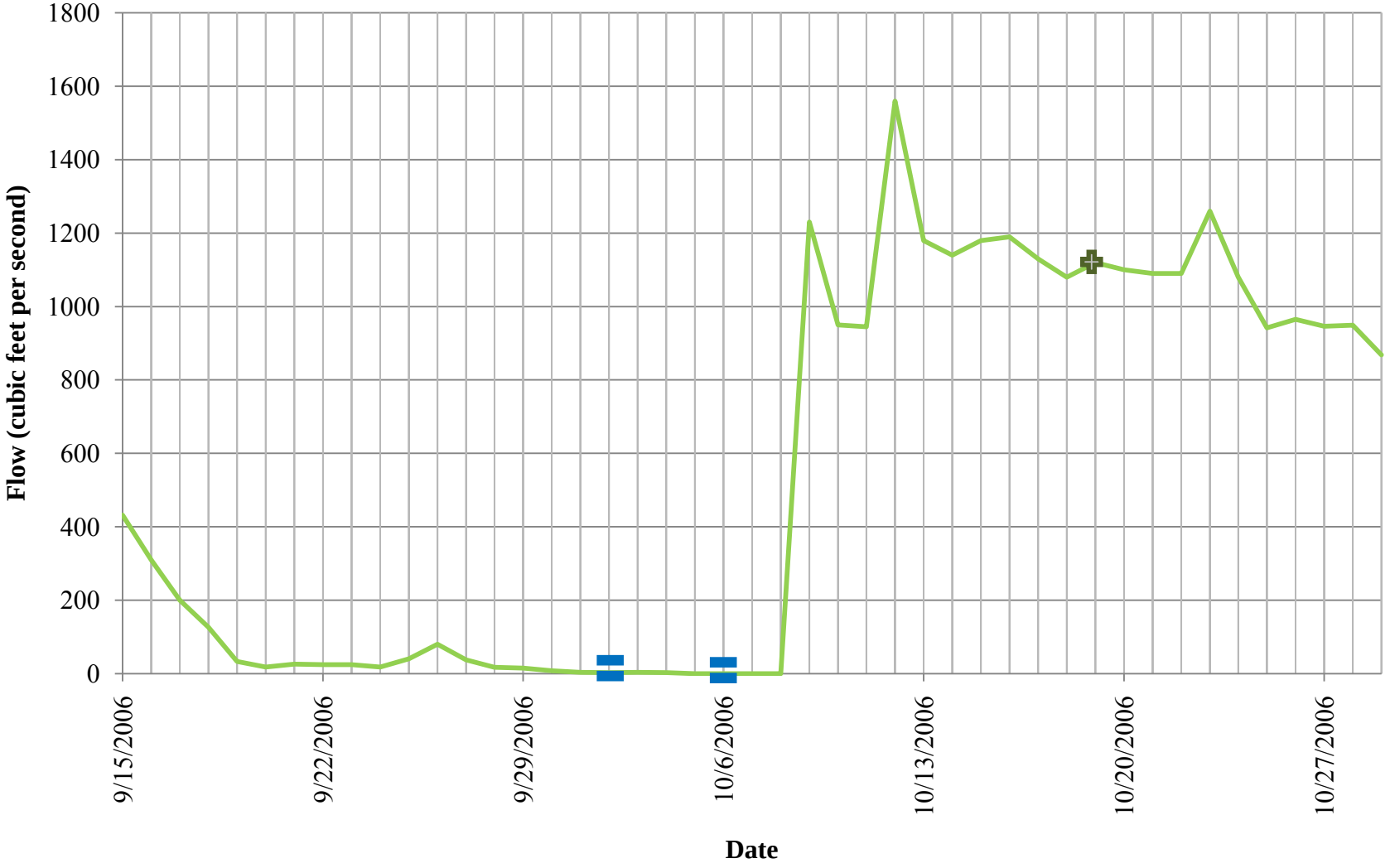


Figure 43. Mean Daily Discharge at USGS Gage 08355490, Rio Grande above US Highway 380 near San Antonio, NM, during Winter 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 6, Rio Grande near San Antonio, NM.]

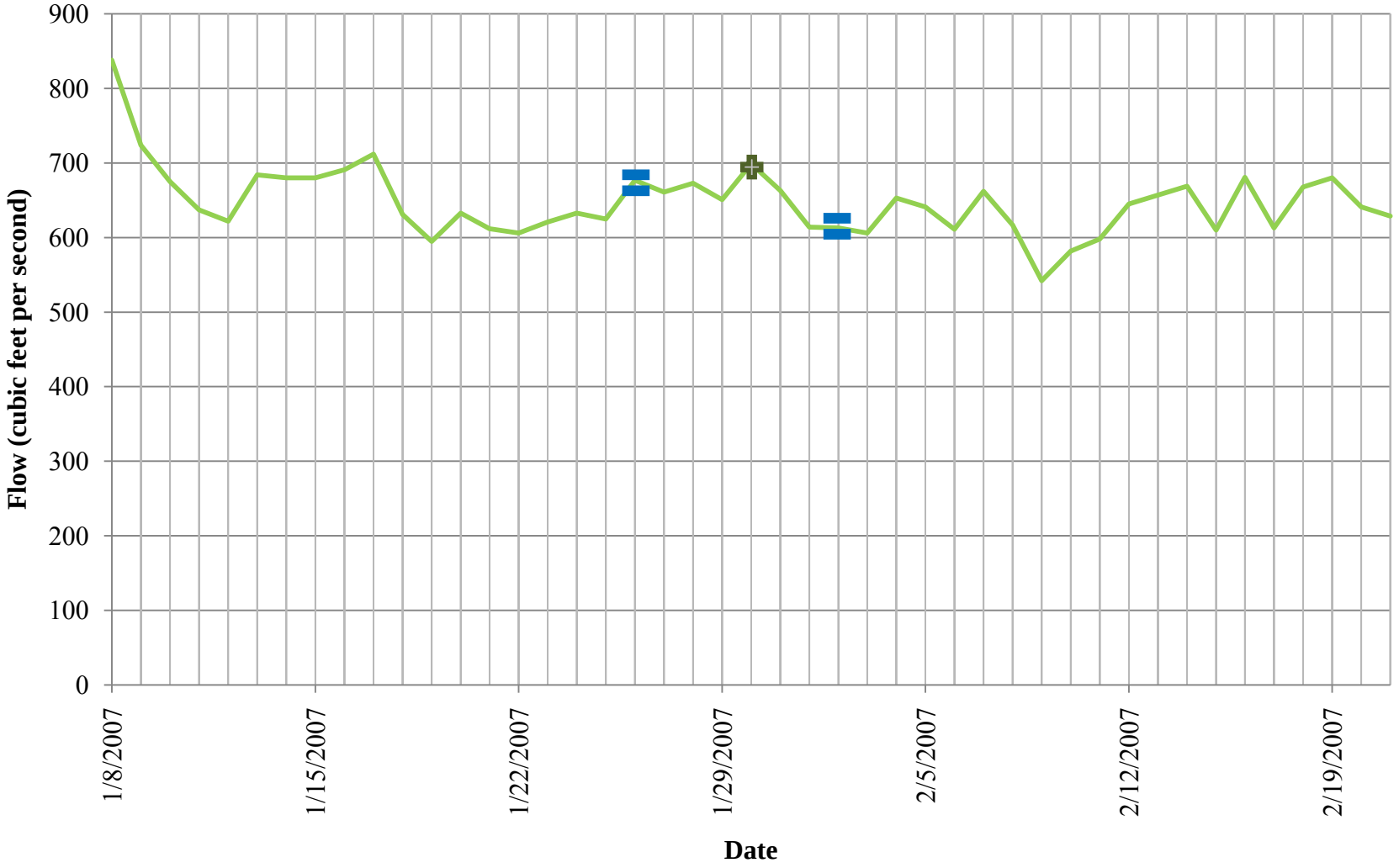


Figure 44. Mean Daily Discharge at USGS Gage 08355490, Rio Grande above US Highway 380 near San Antonio, NM, during Spring 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 6, Rio Grande near San Antonio, NM.]

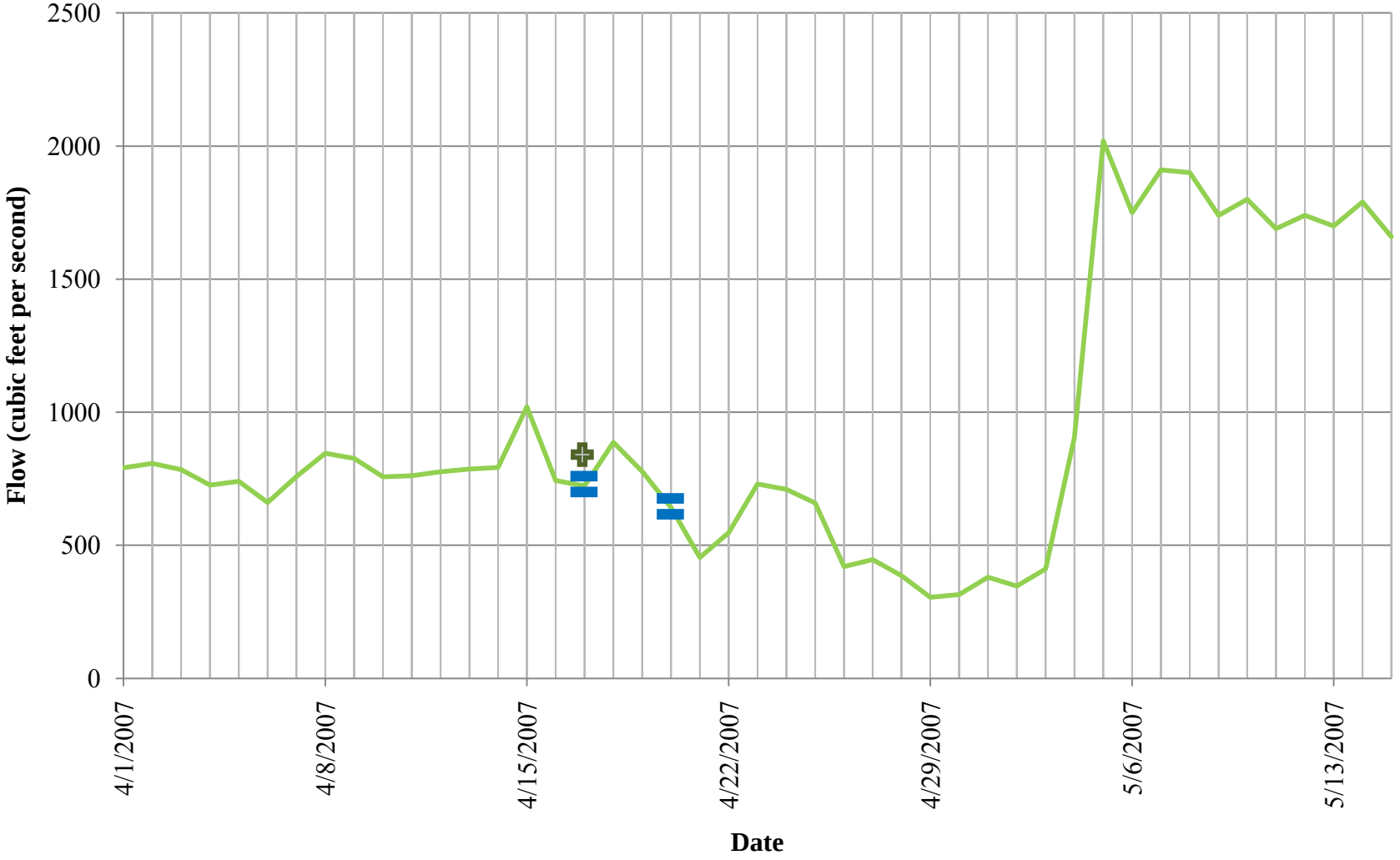


Figure 45. Mean Daily Discharge at USGS Gage 08355490, Rio Grande above US Highway 380 near San Antonio, NM, during Fall 2007.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 6, Rio Grande near San Antonio, NM.]

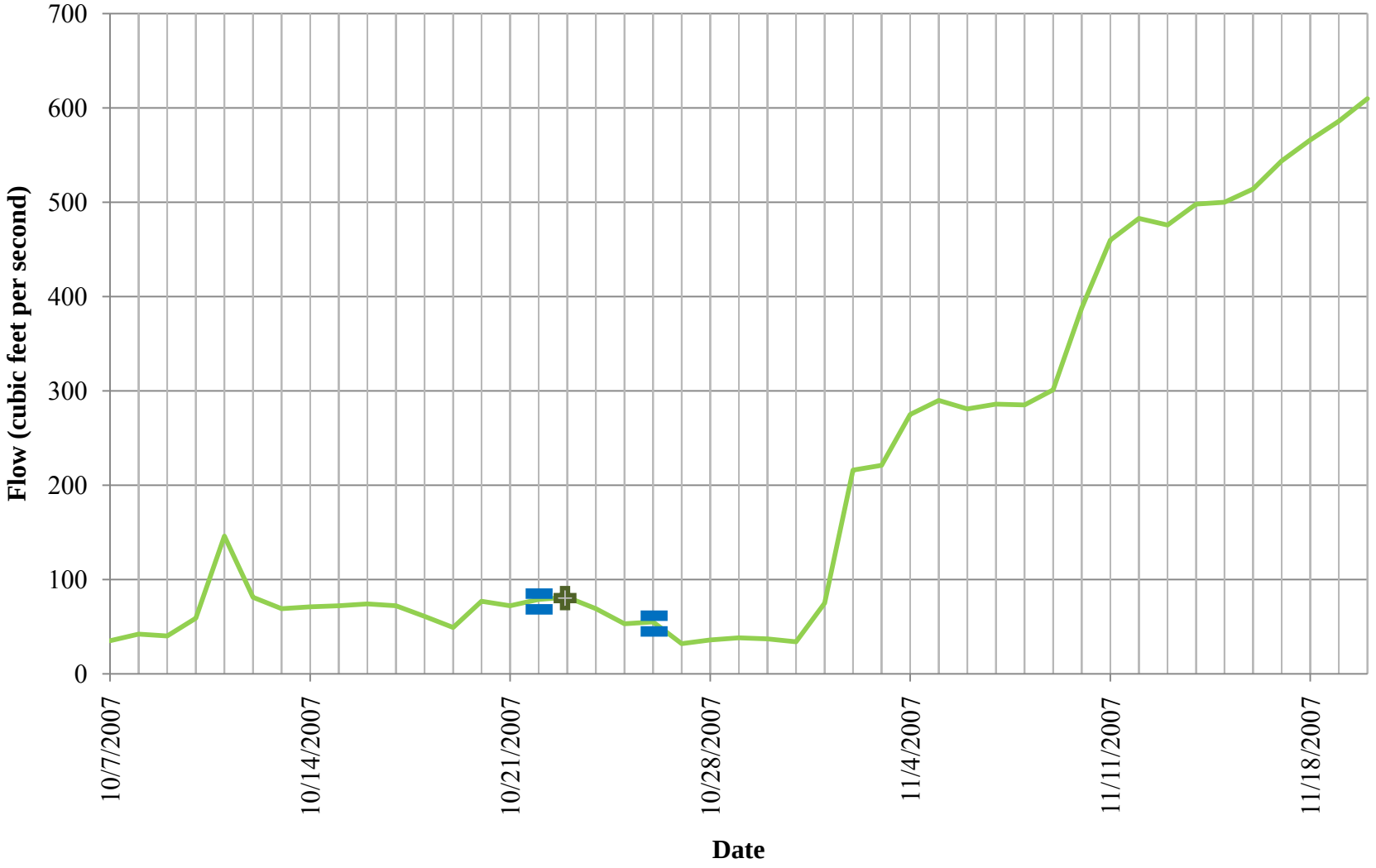


Figure 46. Mean Daily Discharge at USGS Gage 08355490, Rio Grande above US Highway 380 near San Antonio, NM, during Winter 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 6, Rio Grande near San Antonio, NM.]

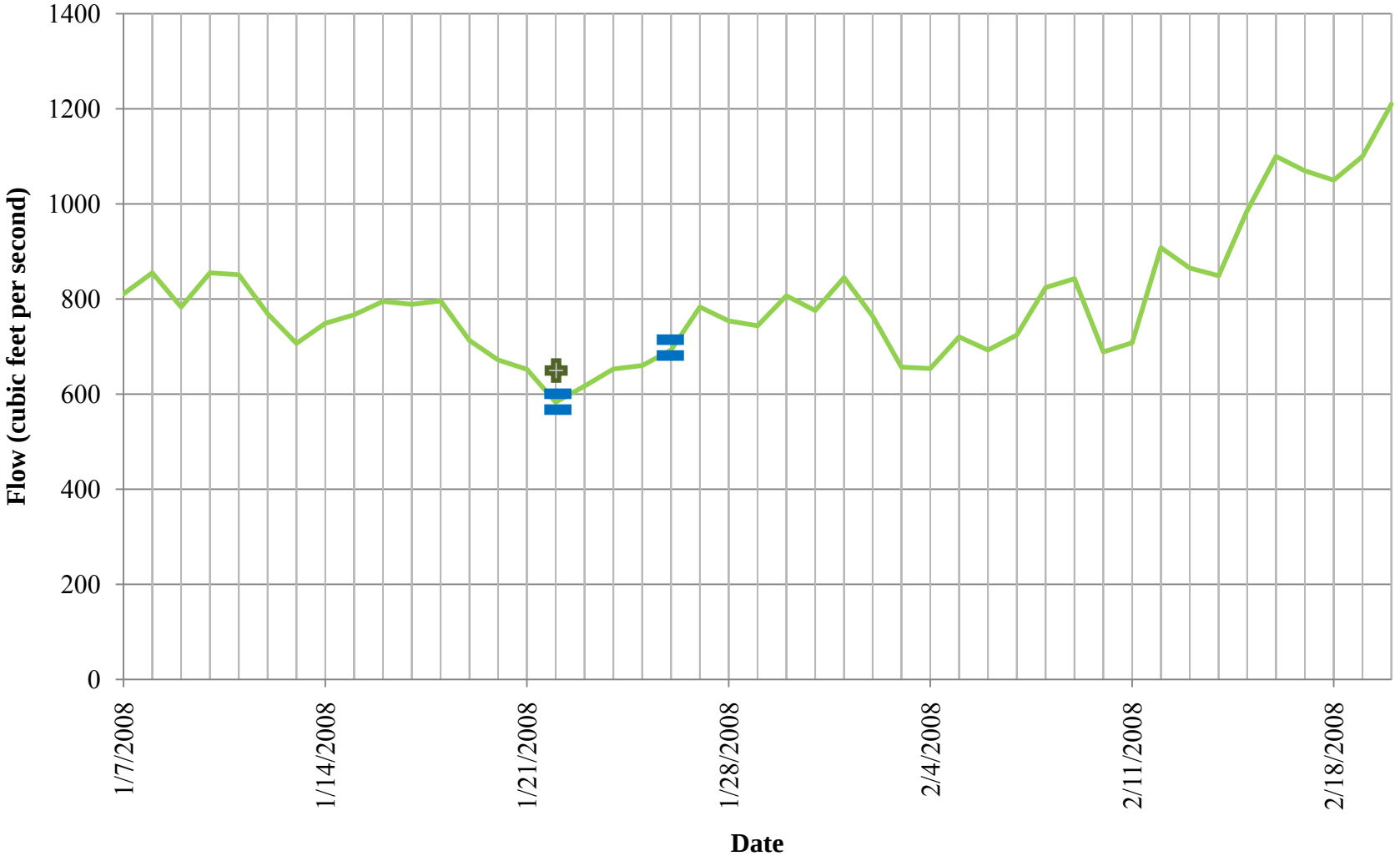


Figure 47. Mean Daily Discharge at USGS Gage 08355490, Rio Grande above US Highway 380 near San Antonio, NM, during Spring 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 6, Rio Grande near San Antonio, NM.]

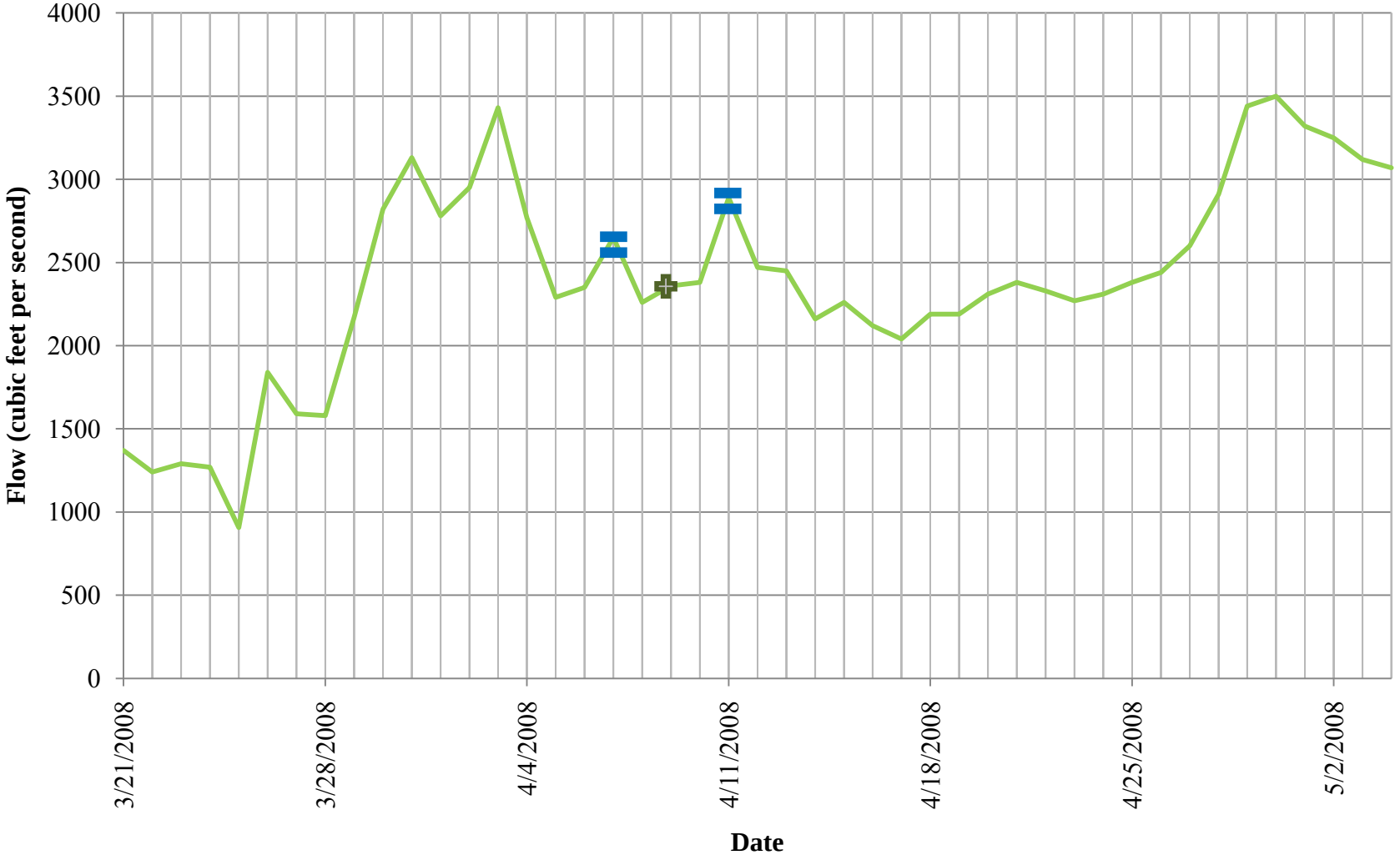
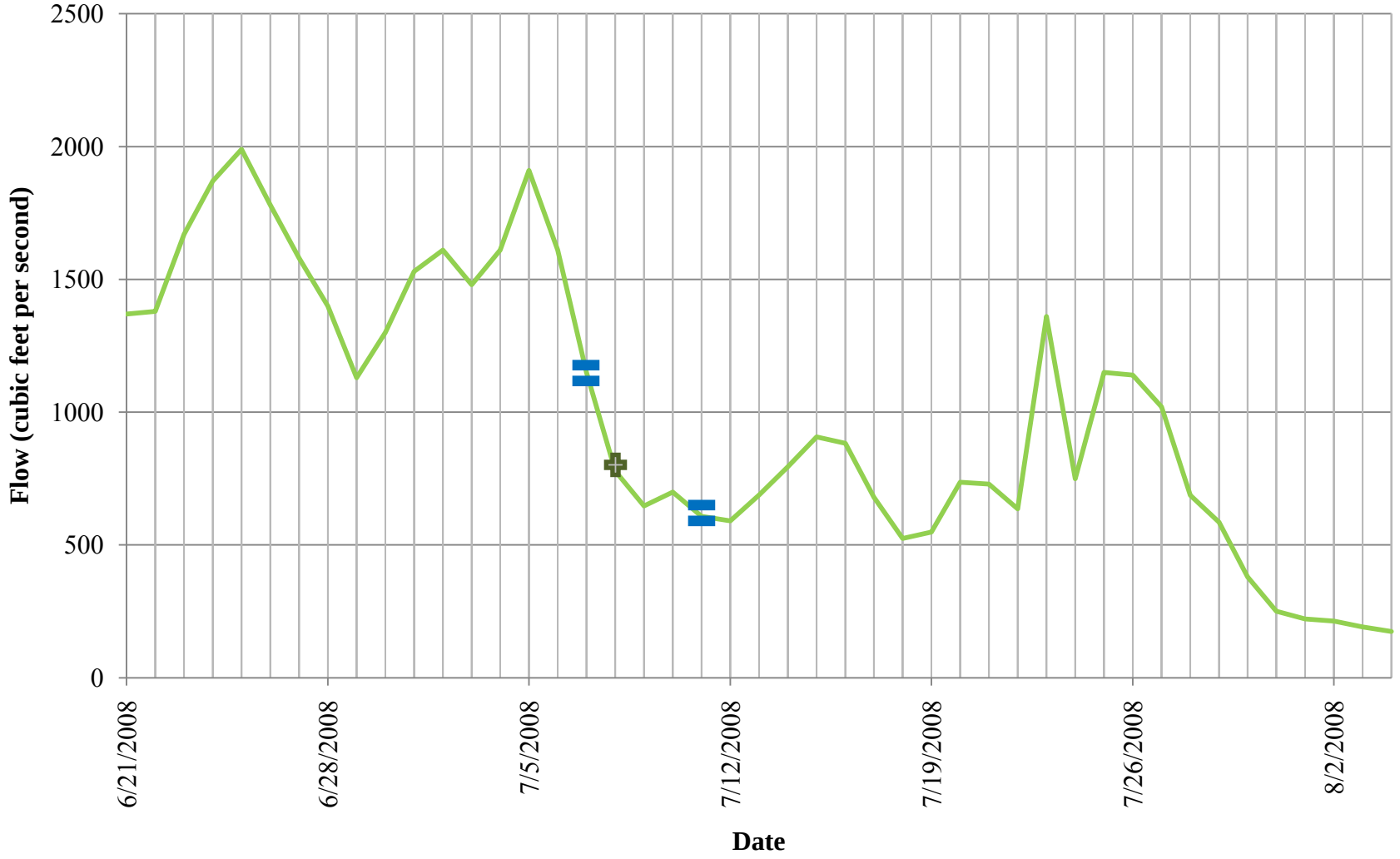


Figure 48. Mean Daily Discharge at USGS Gage 08355490, Rio Grande above US Highway 380 near San Antonio, NM, during Summer 2008.

["=", indicates start and end of continuous water quality monitoring; and "+", indicates fish collection event at Site 6, Rio Grande near San Antonio, NM.]



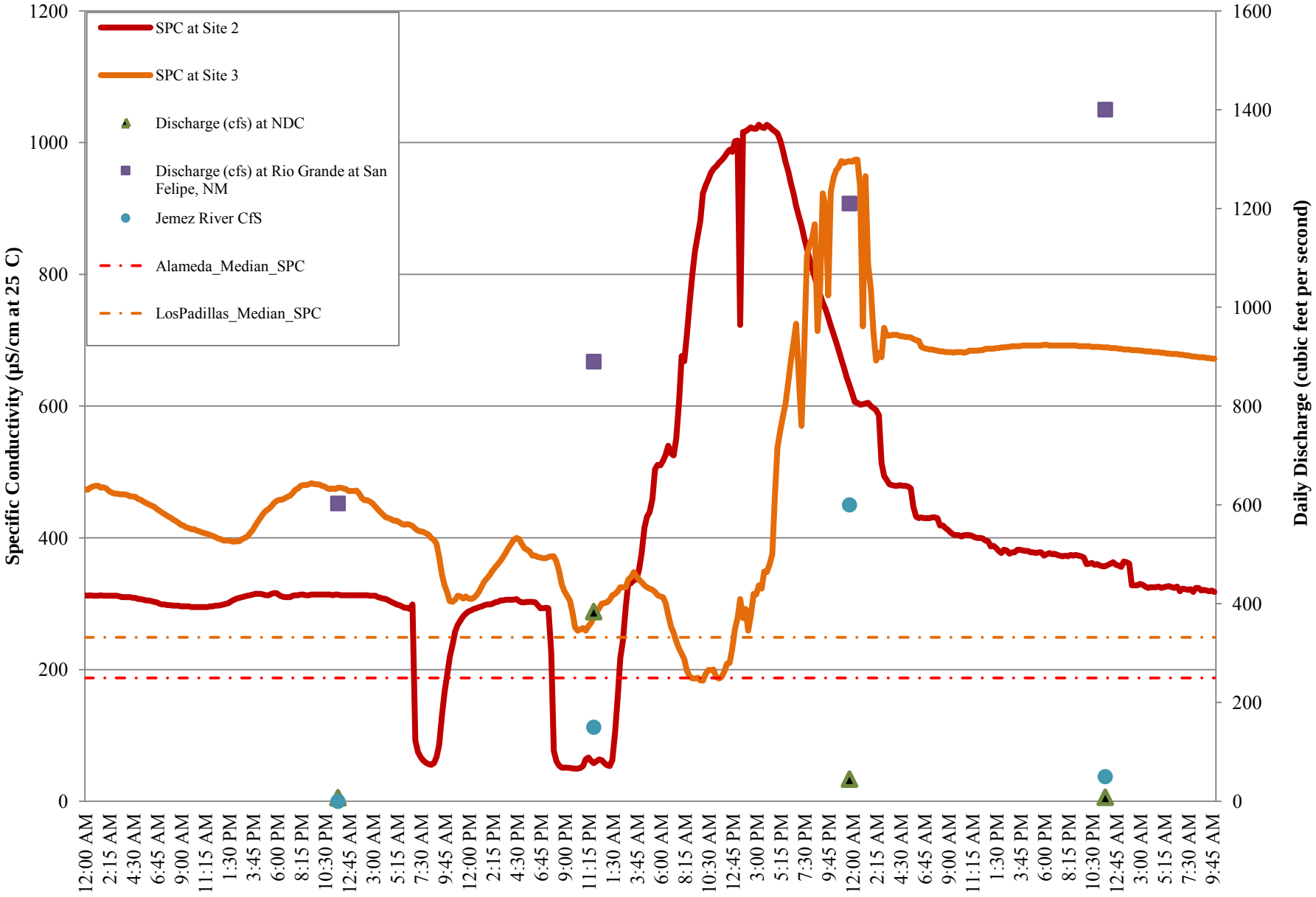


Figure 49. Specific conductivity (SPC; uS/cm at 25C) in the Rio Grande at Site 2 and at Site 3, beginning 12:00AM, October 9, 2006, and Daily Discharge (cubic feet per second (cfs)) at USGS Gage 08329900 (NDC), USGS Gage 08329000 (Jemez River), and USGS Gage 08319000 Rio Grande at San Felipe, New Mexico.

Table 1. Site number, site name name, latitude and longitude (in decimal degress) of a central point, and description of the RGSM Health Study sampling sites.

Site Number	Site Name	Latitude and Longitude (central point - decimal degrees)	Site Location Description
1	Rio Grande at Bernalillo, New Mexico	35.3181, -106.5589	approximately 0.1 mi upstream to 0.8 mi downstream of the Highway 550 Bridge crossing
2	Rio Grande at Alameda, New Mexico	35.2101, -106.6172	approximately 0.7 mi upstream and 1.1 mi downstream of AMAFCA North Diversion Channel mouth
3	Rio Grande at Los Padillas, New Mexico	34.9716, -106.6897	Just north of the Interstate 25 Bridge to approximately 5 mi upstream
4	Rio Grande at Los Lunas, New Mexico	34.8228, -106.7149	approximately 0.6 mi to 2.4 mi north of the Main Street (Highway 6) Bridge crossing
5	Rio Grande at La Joya, New Mexico	34.3073, -106.8493	approximately 2.4 mi to 3.8 mi north of the confluence with the Rio Salado
6	Rio Grande near San Antonio, New Mexico	33.8775, -106.8495	approximately 0.5 mi downstream and 1.2 mi upstream of Bosque del Apache National Wildlife Refuge (BdANWR) North Boundary

Table 2. Site number, sample date, wetted width, average depth, average velocity, site discharge, and daily discharge reported at the nearest USGS Gage of the sample sites during 2006 to 2008.

[See Table 1 for Site number, name and location; USGS Gage 08329918 used for Sites 1 and 2, USGS Gage 08330875 used for Site 3, USGS Gage 08331160 used for Site 4, the sum of USGS Gage 08331510 and USGS Gage 08353000 used for Site 5, and, USGS Gage 08355490 used for Site 6; m, meter; ft, foot; s, second; footnotes identify the equation used to derive value indicated; $\log_e$, natural logarithm]

Site Number	Sample Date	Wetted Width (m)	Wetted Width (ft)	Average Depth (m)	Average Depth (ft)	Average Velocity ($m^{-1}s^{-1}$)	Average Velocity ($ft^{-1}s^{-1}$)	Sample Site Discharge (ft^3s^{-1})	USGS Gage Daily Discharge (ft^3s^{-1})
1	July 27 2006	40.2	132	0.68	2.22	0.47	1.55	455	637
2	July 26 2006	78.3[a]	257[b]	0.32[a]	1.05[c]	0.47[a]	1.56[d]	452[e]	435
3	July 25 2006	84.3[a]	277[f]	0.36[a]	1.17[g]	0.49[a]	1.60[h]	472[i]	506
4	July 20 2006	27.4	90	0.38	1.25	0.05	0.18	22	53
5	July 19 2006	60.0	197	0.05	0.18	0.09	0.30	12	27
6	July 18 2006	6.8	22	0.13	0.43	0.05	0.18	35	29
1	October 11, 2006	88[a]	289[b]	0.55[a]	1.80[c]	0.70[a]	2.28[d]	1042[e]	1100
2	October 12, 2006	90.5[a]	297[b]	0.61[a]	1.99[c]	0.75[a]	2.47[d]	1308[e]	1400
3	October 17, 2006	125.6	412	0.31	1.01	0.43	1.43	647	780
4	October 16, 2006	83.0	272	0.58	1.90	0.60	1.97	1025	898
5	October 18, 2006	56.4	185	0.59	1.93	0.52	1.71	720	508
6	October 6, 2006	dry							0
1	January 25, 2007	44.0	143	0.43	1.40	1.02	3.35	686	710
2	January 24, 2007	107.3	352	0.37	1.20	0.41	1.35	642	760
3	January 23, 2007	128.3	421	0.30	0.98	0.35	1.16	557	560
4	February 1, 2007	107.6	352	0.37	1.20	0.41	1.35	642	691
5	January 31, 2007	96.3	316	0.43	1.42	0.51	1.66	726	620
6	January 30, 2007	51.0	167	0.51	1.68	0.73	2.40	729	699

Table 2. Site number, sample date, wetted width, average depth, average velocity, site discharge, and daily discharge reported at the nearest USGS Gage of the sample sites during 2006 to 2008.

[See Table 1 for Site number, name and location; USGS Gage 08329918 used for Sites 1 and 2, USGS Gage 08330875 used for Site 3, USGS Gage 08331160 used for Site 4, the sum of USGS Gage 08331510 and USGS Gage 08353000 used for Site 5, and, USGS Gage 08355490 used for Site 6; m, meter; ft, foot; s, second; footnotes identify the equation used to derive value indicated; $\log_e$, natural logarithm]

Site Number	Sample Date	Wetted Width (m)	Wetted Width (ft)	Average Depth (m)	Average Depth (ft)	Average Velocity ($m^{-1}s^{-1}$)	Average Velocity ($ft^{-1}s^{-1}$)	Sample Site Discharge (ft^3s^{-1})	USGS Gage Daily Discharge (ft^3s^{-1})
1	April 26, 2007	61.6	202	0.37	1.21	0.46	1.51	921	764
2	April 25, 2007	115.0	376	0.41	1.33	0.52	1.41	934	731
3	April 24, 2007	185.0	606	0.34	1.10	0.33	1.09	715	828
4	April 19, 2007	84.0	274	0.36	1.17	0.40	1.30	528	558
5	April 18, 2007	96.0	315	0.46	1.50	0.54	1.77	844	653
6	April 17, 2007	166.0	545	0.59	1.94	0.88	2.90	971	723
1	October 31, 2007	60.4	198	0.37	1.20	0.41	1.34	365	311
2	October 30, 2007	62.8	206	0.28	0.90	0.40	1.32	296	271
3	October 29, 2007	101.2	332	0.22	0.72	0.31	1.03	310	314
4	October 25, 2007	29.0	96	0.32	1.04	0.25	0.86	32	35
5	October 24, 2007	1.7[a]	6[j]	0.04[a]	0.12[k]	0.22[a]	0.72[l]	28[m]	23
6	October 23, 2007	17.0	56	0.25	0.81	0.45	1.47	67	81
1	January 30, 2008	52.4	172	0.48	1.58	0.94	3.09	895	915
2	January 29, 2008	100.6	330	0.40	1.32	0.51	1.68	730	829
3	January 28, 2008	61.3	201	0.23	0.77	0.60	1.95	534	593
4	January 24, 2008	85.3	280	0.51	1.67	0.50	1.64	789	776
5	January 23, 2008	40.8	134	0.71	2.32	0.59	1.92	610	645
6	January 22, 2008	51.0	168	0.38	1.24	0.76	2.49	564	583

Table 2. Site number, sample date, wetted width, average depth, average velocity, site discharge, and daily discharge reported at the nearest USGS Gage of the sample sites during 2006 to 2008.

[See Table 1 for Site number, name and location; USGS Gage 08329918 used for Sites 1 and 2, USGS Gage 08330875 used for Site 3, USGS Gage 08331160 used for Site 4, the sum of USGS Gage 08331510 and USGS Gage 08353000 used for Site 5, and, USGS Gage 08355490 used for Site 6; m, meter; ft, foot; s, second; footnotes identify the equation used to derive value indicated; $\log_e$, natural logarithm]

Site Number	Sample Date	Wetted Width (m)	Wetted Width (ft)	Average Depth (m)	Average Depth (ft)	Average Velocity ($m^{-1}s^{-1}$)	Average Velocity ($ft^{-1}s^{-1}$)	Sample Site Discharge (ft^3s^{-1})	USGS Gage Daily Discharge (ft^3s^{-1})
1	April 16, 2008	98.4[a]	323[b]	0.79[a]	2.60[c]	0.93[a]	3.07[d]	2711[e]	2980
2	April 15, 2008	99.0[a]	325[b]	0.81[a]	2.64[c]	0.95[a]	3.11[d]	2853[e]	3140
3	April 14, 2008	164.2[a]	539[f]	0.69[a]	2.27[g]	0.63[a]	2.07[h]	2722[i]	3500
4	April 10, 2008	105.7[a]	347[o]	0.59[a]	1.93[p]	0.61[a]	2.02[q]	2858[e]	2660
5	April 10, 2008	94.3[a]	309[n]	0.87[a]	2.84[o]	0.77[a]	2.53[p]	3534[q]	3010
6	April 9, 2008	56.9[a]	187[r]	0.82[a]	2.71[s]	1.01[a]	3.32[t]	2453[u]	2360
1	July 16 2008	52.4	172	0.48	1.57	0.70	2.31	822	858
2	July 15 2008	98.0	321	0.47	1.54	0.48	1.59	791	890
3	July 14 2008	117.0	383	0.44	1.44	0.42	1.39	840	989
4	July 10 2008	46.3	152	0.37	1.22	0.36	1.18	280	329
5	July 09 2008	37.2	122	0.70	2.31	0.59	1.93	584	522
6	July 08 2008	64.0	210	0.51	1.69	0.47	1.54	629	778

[a] – conversion from feet to meters; meters = feet * 0.3048

[b] = 48.4201+34.3195*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))

[c] = -3.8626+0.8079*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))

[d] = -3.2146+0.7852*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))

[e] = 65.898+0.8875*(USGS Gage Daily Discharge (ft^3s^{-1}))

[f] = -567.131+135.503*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))

[g] = -3.8626+0.8079*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))

[h] = 0.0865+0.243*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))

Table 2. Site number, sample date, wetted width, average depth, average velocity, site discharge, and daily discharge reported at the nearest USGS Gage of the sample sites during 2006 to 2008.

[See Table 1 for Site number, name and location; USGS Gage 08329918 used for Sites 1 and 2, USGS Gage 08330875 used for Site 3, USGS Gage 08331160 used for Site 4, the sum of USGS Gage 08331510 and USGS Gage 08353000 used for Site 5, and, USGS Gage 08355490 used for Site 6; m, meter; ft, foot; s, second; footnotes identify the equation used to derive value indicated; $\log_e$, natural logarithm]

Site Number	Sample Date	Wetted Width (m)	Wetted Width (ft)	Average Depth (m)	Average Depth (ft)	Average Velocity ($m^{-1}s^{-1}$)	Average Velocity ($ft^{-1}s^{-1}$)	Sample Site Discharge (ft^3s^{-1})	USGS Gage Daily Discharge (ft^3s^{-1})

[i] = 91.3534+0.7517*(USGS Gage Daily Discharge (ft^3s^{-1}))
[j] = -189.6456+62.2893*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))
[k] = -1.626+0.5577*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))
[l] = -0.4383+0.3707*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))
[m]= 0.512+1.174*(USGS Gage Daily Discharge (ft^3s^{-1}))
[n] = -189.6456+62.2893*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))
[o] = -1.626+0.5577*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))
[p] = -0.4383+0.3707*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))
[q] = 0.512+1.174*(USGS Gage Daily Discharge (ft^3s^{-1}))
[r] = -91.0047+35.7421*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))
[s] = -1.626+0.5577*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))
[t] = -1.3148+0.5971*$\log_e$(USGS Gage Daily Discharge (ft^3s^{-1}))
[u] = -2.6037+1.0407*(USGS Gage Daily Discharge (ft^3s^{-1}))

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Site Name	Fish Pathogen Identifier	Fish Necropsy Identifier*	Seine Haul Number	UTM 13N Easting	UTM 13N Northing
7/19/2006	2006	summer	5	Rio Grande at La Joya	06-27	7-06-S5	7	329615	3798059
7/19/2006	2006	summer	5	Rio Grande at La Joya	06-27	7-06-S5	14	329845	3797726
7/20/2006	2006	summer	4	Rio Grande at Los Lunas	06-28	7-06-S4	34	343305	3854254
7/25/2006	2006	summer	3	Rio Grande at Los Padillas	06-34	7-06-S3	3	345710	3871392
7/25/2006	2006	summer	3	Rio Grande at Los Padillas	06-34	7-06-S3	5	345836	3871215
7/25/2006	2006	summer	3	Rio Grande at Los Padillas	06-34	7-06-S3	9	345939	3872445
7/27/2006	2006	summer	1	Rio Grande at Bernalillo	06-36	7-06-S1	2	358305	3909605
7/27/2006	2006	summer	1	Rio Grande at Bernalillo	06-36	7-06-S1	3	358385	3909920
7/27/2006	2006	summer	1	Rio Grande at Bernalillo	06-36	7-06-S1	4	358335	3909865
7/27/2006	2006	summer	1	Rio Grande at Bernalillo	06-36	7-06-S1	4	358367	3909977
7/27/2006	2006	summer	1	Rio Grande at Bernalillo	06-36	7-06-S1	6	358308	3909838
7/27/2006	2006	summer	1	Rio Grande at Bernalillo	06-36	7-06-S1	11	358321	3909724
7/27/2006	2006	summer	1	Rio Grande at Bernalillo	06-36	7-06-S1	12	358303	3909705
7/27/2006	2006	summer	1	Rio Grande at Bernalillo	06-36	7-06-S1	12	358266	3909373
10/11/2006	2006	autumn	1	Rio Grande at Bernalillo	07-01	10-06-S1	1	358305	3909605
10/11/2006	2006	autumn	1	Rio Grande at Bernalillo	07-01	10-06-S1	2	358305	3909605
10/11/2006	2006	autumn	1	Rio Grande at Bernalillo	07-01	10-06-S1	4	358305	3909605
10/11/2006	2006	autumn	1	Rio Grande at Bernalillo	07-01	10-06-S1	5	358305	3909605
10/11/2006	2006	autumn	1	Rio Grande at Bernalillo	07-01	10-06-S1	6	358305	3909605
10/11/2006	2006	autumn	1	Rio Grande at Bernalillo	07-01	10-06-S1	7	358305	3909605
10/11/2006	2006	autumn	1	Rio Grande at Bernalillo	07-01	10-06-S1	19	358305	3909605
10/11/2006	2006	autumn	1	Rio Grande at Bernalillo	07-01	10-06-S1	21	358514	3910057
10/11/2006	2006	autumn	1	Rio Grande at Bernalillo	07-01	10-06-S1	26	358318	3909724
10/12/2006	2006	autumn	2	Rio Grande at Alameda	07-02	10-06-S2	7	352710	3897503
10/12/2006	2006	autumn	2	Rio Grande at Alameda	07-02	10-06-S2	15	352472	3897419
10/12/2006	2006	autumn	2	Rio Grande at Alameda	07-02	10-06-S2	16	352457	3897416
10/12/2006	2006	autumn	2	Rio Grande at Alameda	07-02	10-06-S2	17	352472	3897413
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	1	343366	3854169

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Site Name	Fish Pathogen Identifier	Fish Necropsy Identifier*	Seine Haul Number	UTM 13N Easting	UTM 13N Northing
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	2	343379	3854138
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	3	343404	3854123
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	4	343404	3854123
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	5	343480	3853999
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	6	343470	3854064
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	7	343453	3854086
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	8	343417	3854389
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	9	343428	3854354
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	10	343426	3854261
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	11	343454	3854250
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	12	343460	3854155
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	13	343461	3854126
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	14	343481	3854072
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	15	343462	3854073
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	16	343488	3854052
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	17	343479	3854011
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	18	343499	3853982
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	20	343422	3853744
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	21	343366	3853735
10/16/2006	2006	autumn	4	Rio Grande at Los Lunas	07-03	10-06-S4	24	343386	3853717
10/17/2006	2006	autumn	3	Rio Grande at Los Padillas	07-04	10-06-S3	2	346215	3869493
10/17/2006	2006	autumn	3	Rio Grande at Los Padillas	07-04	10-06-S3	10	346279	3869637
10/17/2006	2006	autumn	3	Rio Grande at Los Padillas	07-04	10-06-S3	11	346297	3869604
10/17/2006	2006	autumn	3	Rio Grande at Los Padillas	07-04	10-06-S3	15	346326	3869236
10/17/2006	2006	autumn	3	Rio Grande at Los Padillas	07-04	10-06-S3	19	346481	3869071
10/17/2006	2006	autumn	3	Rio Grande at Los Padillas	07-04	10-06-S3	23	346201	3869823
10/17/2006	2006	autumn	3	Rio Grande at Los Padillas	07-04	10-06-S3	24	346225	3869704
10/18/2006	2006	autumn	5	Rio Grande at La Joya	07-05	10-06-S5	1	329662	3798021

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Site Name	Fish Pathogen Identifier	Fish Necropsy Identifier*	Seine Haul Number	UTM 13N Easting	UTM 13N Northing
10/18/2006	2006	autumn	5	Rio Grande at La Joya	07-05	10-06-S5	2	329683	3798029
10/18/2006	2006	autumn	5	Rio Grande at La Joya	07-05	10-06-S5	3	329696	3798035
10/18/2006	2006	autumn	5	Rio Grande at La Joya	07-05	10-06-S5	4	329698	3798041
10/19/2006	2006	autumn	6	Rio Grande near San Antonio	NA	NA	6	328962	3749069
10/19/2006	2006	autumn	6	Rio Grande near San Antonio	NA	NA	4, 5	328991	3749927
1/23/2007	2007	winter	3	Rio Grande at Los Padillas	07-17	1-07-S3	8	346387	3869288
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	5	352342	3897473
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	8	352014	3897061
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	10	351996	3897031
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	13	352019	3897076
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	14	352585	3897661
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	15	352552	3897669
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	16	352507	3897573
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	17	352483	3897547
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	18	352445	3897540
1/24/2007	2007	winter	2	Rio Grande at Alameda	07-18	1-07-S2	19	352437	3897535
1/30/2007	2007	winter	6	Rio Grande near San Antonio	07-19	1-07-S6	16	329003	3750034
1/30/2007	2007	winter	6	Rio Grande near San Antonio	07-19	1-07-S6	17	329002	3750013
1/31/2007	2007	winter	5	Rio Grande at La Joya	07-20	1-07-S5	2	329698	3797981
1/31/2007	2007	winter	5	Rio Grande at La Joya	07-20	1-07-S5	3	329704	3797931
1/31/2007	2007	winter	5	Rio Grande at La Joya	07-20	1-07-S5	8	329729	3797882
1/31/2007	2007	winter	5	Rio Grande at La Joya	07-20	1-07-S5	12	329770	3797850
1/31/2007	2007	winter	5	Rio Grande at La Joya	07-20	1-07-S5	15	329790	3797779
1/31/2007	2007	winter	5	Rio Grande at La Joya	07-20	1-07-S5	16	329804	3797769
1/31/2007	2007	winter	5	Rio Grande at La Joya	07-20	1-07-S5	22	329784	3797569
2/1/2007	2007	winter	4	Rio Grande at Los Lunas	07-21	2-07-S4	1	343376	3854481
2/1/2007	2007	winter	4	Rio Grande at Los Lunas	07-21	2-07-S4	5	343367	3854024
2/1/2007	2007	winter	4	Rio Grande at Los Lunas	07-21	2-07-S4	7	343440	3853783

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Site Name	Fish Pathogen Identifier	Fish Necropsy Identifier*	Seine Haul Number	UTM 13N Easting	UTM 13N Northing
2/1/2007	2007	winter	4	Rio Grande at Los Lunas	07-21	2-07-S4	8	343396	3853695
4/17/2007	2007	spring	6	Rio Grande near San Antonio	NA	NA	2	328990	3750171
4/18/2007	2007	spring	5	Rio Grande at La Joya	07-32	4-07-S5	3	329694	3797996
4/18/2007	2007	spring	5	Rio Grande at La Joya	07-32	4-07-S5	4	329699	3797976
4/18/2007	2007	spring	5	Rio Grande at La Joya	07-32	4-07-S5	5	329909	3797003
4/18/2007	2007	spring	5	Rio Grande at La Joya	07-32	4-07-S5	9	329329	3798572
4/18/2007	2007	spring	5	Rio Grande at La Joya	07-32	4-07-S5	10	329317	3798592
4/18/2007	2007	spring	5	Rio Grande at La Joya	07-32	4-07-S5	11	329313	3798607
4/18/2007	2007	spring	5	Rio Grande at La Joya	07-32	4-07-S5	12	329313	3798610
4/18/2007	2007	spring	5	Rio Grande at La Joya	07-32	4-07-S5	13	329452	3798413
4/19/2007	2007	spring	4	Rio Grande at Los Lunas	07-33	4-07-S4	6	343413	3854357
4/19/2007	2007	spring	4	Rio Grande at Los Lunas	07-33	4-07-S4	7	343416	3854353
4/19/2007	2007	spring	4	Rio Grande at Los Lunas	07-33	4-07-S4	15	343431	3854192
4/19/2007	2007	spring	4	Rio Grande at Los Lunas	07-33	4-07-S4	17	343445	3854125
4/19/2007	2007	spring	4	Rio Grande at Los Lunas	07-33	4-07-S4	18	343474	3854043
4/25/2007	2007	spring	2	Rio Grande at Alameda	07-35	4-07-S2	1	352950	3897713
4/25/2007	2007	spring	2	Rio Grande at Alameda	07-35	4-07-S2	3	352918	3897727
4/25/2007	2007	spring	2	Rio Grande at Alameda	07-35	4-07-S2	4	352890	3897718
4/25/2007	2007	spring	2	Rio Grande at Alameda	07-35	4-07-S2	5	352823	3897710
4/25/2007	2007	spring	2	Rio Grande at Alameda	07-35	4-07-S2	6	352794	3897723
4/25/2007	2007	spring	2	Rio Grande at Alameda	07-35	4-07-S2	8	352674	3897669
4/25/2007	2007	spring	2	Rio Grande at Alameda	07-35	4-07-S2	9	352588	3897665
4/25/2007	2007	spring	2	Rio Grande at Alameda	07-35	4-07-S2	10	352531	3897618
4/26/2007	2007	spring	1	Rio Grande at Bernalillo	07-36	4-07-S1	2	358298	3909811
4/26/2007	2007	spring	1	Rio Grande at Bernalillo	07-36	4-07-S1	11	358257	3909077
4/26/2007	2007	spring	1	Rio Grande at Bernalillo	07-36	4-07-S1	21	358253	3909055
4/26/2007	2007	spring	1	Rio Grande at Bernalillo	07-36	4-07-S1	22	358243	3909042
10/23/2007	2007	autumn	6	Rio Grande near San Antonio	08-05	10-07-S6	2	329304	3750689

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Site Name	Fish Pathogen Identifier	Fish Necropsy Identifier*	Seine Haul Number	UTM 13N Easting	UTM 13N Northing
10/23/2007	2007	autumn	6	Rio Grande near San Antonio	08-05	10-07-S6	9	329083	3750324
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	2	329654	3798016
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	3	329659	3798029
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	4	329648	3798028
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	5	329630	3797905
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	8	329664	3797874
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	15	329895	3797100
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	24	330116	3796784
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	25	330141	3796760
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	26	330135	3796746
10/24/2007	2007	autumn	5	Rio Grande at La Joya	08-06	10-07-S5	27	330177	3796735
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	1	352959	3897730
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	2	352938	3897725
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	3	352931	3897731
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	4	352904	3897735
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	5	352890	3897730
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	6	352890	3897730
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	7	352879	3897715
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	8	352845	3897701
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	9	352839	3897688
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	10	352831	3897704
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	11	352812	3897711
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	12	352806	3897709
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	13	352813	3897710
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	14	352784	3897725
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	15	352762	3897724
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	16	352762	3897724
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	17	352756	3897711

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Site Name	Fish Pathogen Identifier	Fish Necropsy Identifier*	Seine Haul Number	UTM 13N Easting	UTM 13N Northing
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	18	352756	3897711
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	19	352724	3897695
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	20	352709	3897685
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	21	352702	3897693
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	22	352702	3897693
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	23	352681	3897680
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	24	352670	3897668
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	25	352656	3897661
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	26	352642	3897665
10/30/2007	2007	autumn	2	Rio Grande at Alameda	08-09	10-07-S2	27	352625	3897663
10/31/2007	2007	autumn	1	Rio Grande at Bernalillo	08-10	10-07-S1	1	358457	3910079
10/31/2007	2007	autumn	1	Rio Grande at Bernalillo	08-10	10-07-S1	2	358447	3910073
10/31/2007	2007	autumn	1	Rio Grande at Bernalillo	08-10	10-07-S1	3	358437	3910061
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	6	329031	3750117
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	7	329020	3750095
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	8	328998	3750071
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	9	328990	3750083
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	10	328997	3750075
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	11	328990	3750075
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	14	328994	3750076
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	15	328980	3750049
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	16	328984	3750023
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	17	328983	3749993
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	18	328984	3749957
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	19	328979	3749898
1/22/2008	2008	winter	6	Rio Grande near San Antonio	08-22	1-08-S6	12, 13	328977	3750091
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	1	329669	3798015
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	2	329701	3797976

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Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Site Name	Fish Pathogen Identifier	Fish Necropsy Identifier*	Seine Haul Number	UTM 13N Easting	UTM 13N Northing
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	3	329699	3797951
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	4	329711	3797949
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	5	329718	3797945
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	6	329725	3797931
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	7	329715	3797923
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	8	329739	3797908
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	9	329762	3797892
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	10	329766	3797857
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	11	329789	3797849
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	12	329794	3797846
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	13	329814	3797809
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	14	329820	3797796
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	15	329823	3797789
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	16	329824	3797762
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	17	329857	3797712
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	18	329852	3797700
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	19	329851	3797682
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	20	329850	3797657
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	21	329852	3797633
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	22	329846	3797614
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	23	329837	3797590
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	24	329853	3797602
1/23/2008	2008	winter	5	Rio Grande at La Joya	08-23	1-08-S5	25	329796	3797545
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	6	343230	3854688
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	11	343347	3854476
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	12	343355	3854474
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	13	343357	3854471
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	14	343377	3854471

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Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Site Name	Fish Pathogen Identifier	Fish Necropsy Identifier*	Seine Haul Number	UTM 13N Easting	UTM 13N Northing
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	15	343407	3854428
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	16	343415	3854430
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	19	343430	3854393
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	22	343429	3854371
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	25	343447	3854339
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	26	343458	3854326
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	17, 18	343427	3854406
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	20, 21	343425	3854384
1/24/2008	2008	winter	4	Rio Grande at Los Lunas	08-24	1-08-S4	23, 24	343425	3854379
1/28/2008	2008	winter	3	Rio Grande at Los Padillas	08-25	1-08-S3	25	345766	3870968
1/28/2008	2008	winter	3	Rio Grande at Los Padillas	08-25	1-08-S3	26	345775	3870923
1/29/2008	2008	winter	2	Rio Grande at Alameda	08-26	1-08-S2	1	352927	3897731
1/29/2008	2008	winter	2	Rio Grande at Alameda	08-26	1-08-S2	2	352914	3897733
1/29/2008	2008	winter	2	Rio Grande at Alameda	08-26	1-08-S2	3	352809	3897709
1/29/2008	2008	winter	2	Rio Grande at Alameda	08-26	1-08-S2	4	352798	3897714
1/29/2008	2008	winter	2	Rio Grande at Alameda	08-26	1-08-S2	5	352682	3897677
1/29/2008	2008	winter	2	Rio Grande at Alameda	08-26	1-08-S2	6	352626	3897660
1/29/2008	2008	winter	2	Rio Grande at Alameda	08-26	1-08-S2	7	352603	3897668
1/29/2008	2008	winter	2	Rio Grande at Alameda	08-26	1-08-S2	8	352577	3897664
1/30/2008	2008	winter	1	Rio Grande at Bernalillo	08-27	1-08-S1	3	358370	3909989
1/30/2008	2008	winter	1	Rio Grande at Bernalillo	08-27	1-08-S1	9	358344	3909886
1/30/2008	2008	winter	1	Rio Grande at Bernalillo	08-27	1-08-S1	10	358331	3909883
1/30/2008	2008	winter	1	Rio Grande at Bernalillo	08-27	1-08-S1	11	358330	3909875
1/30/2008	2008	winter	1	Rio Grande at Bernalillo	08-27	1-08-S1	12	358291	3909812
1/30/2008	2008	winter	1	Rio Grande at Bernalillo	08-27	1-08-S1	18	358298	3909723
4/8/2008	2008	spring	4	Rio Grande at Los Lunas	08-36	4-08-S4	8	343101	3856350
4/8/2008	2008	spring	4	Rio Grande at Los Lunas	08-36	4-08-S4	10	343093	3856289
4/8/2008	2008	spring	4	Rio Grande at Los Lunas	08-36	4-08-S4	11	343092	3856264

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Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Site Name	Fish Pathogen Identifier	Fish Necropsy Identifier*	Seine Haul Number	UTM 13N Easting	UTM 13N Northing
4/8/2008	2008	spring	4	Rio Grande at Los Lunas	08-36	4-08-S4	12	343081	3856251
4/9/2008	2008	spring	6	Rio Grande near San Antonio	08-37	4-08-S6	15	328938	3749560
4/9/2008	2008	spring	6	Rio Grande near San Antonio	08-37	4-08-S6	17	328868	3749595
4/15/2008	2008	spring	2	Rio Grande at Alameda	08-40	4-08-S2	1, 2	353930	3898605
4/16/2008	2008	spring	1	Rio Grande at Bernalillo	08-41	4-08-S1	31	358310	3909381
4/16/2008	2008	spring	1	Rio Grande at Bernalillo	08-41	4-08-S1	32	358320	3909438
7/9/2008	2008	summer	5	Rio Grande at La Joya	08-54	7-08-S5	13	329763	3797482
7/9/2008	2008	summer	5	Rio Grande at La Joya	08-54	7-08-S5	14	329770	3797463
7/15/2008	2008	summer	2	Rio Grande at Alameda	08-57	7-08-S2	2	352947	3897722
7/15/2008	2008	summer	2	Rio Grande at Alameda	08-57	7-08-S2	3	352681	3897675
7/15/2008	2008	summer	2	Rio Grande at Alameda	08-57	7-08-S2	6	352369	3897495
7/15/2008	2008	summer	2	Rio Grande at Alameda	08-57	7-08-S2	7	352338	3897470
7/15/2008	2008	summer	2	Rio Grande at Alameda	08-57	7-08-S2	11	351735	3897107

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Habitat Type	Number of RGSM	Collection Time	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxygen saturation (%)	Specific Conductivity (µS/cm)
7/19/2006	2006	summer	5	side channel	2	9:45 AM	34.5	8.12	6.90	82.8	643
7/19/2006	2006	summer	5	side channel	2	10:22 AM	25.6	7.84	5.68	69.6	584
7/20/2006	2006	summer	4	side channel	6	10:20 AM	26.7	8.26	7.22	90.9	399
7/25/2006	2006	summer	3	side channel	1	10:00 AM	NA	NA	NA	NA	NA
7/25/2006	2006	summer	3	side channel	1	10:11 AM	NA	NA	NA	NA	NA
7/25/2006	2006	summer	3	side channel	2	3:31 PM	NA	NA	NA	NA	NA
7/27/2006	2006	summer	1	side channel	1	10:42 AM	23.0	7.54	6.47	75.6	312
7/27/2006	2006	summer	1	side channel	1	10:53 AM	23.3	7.30	6.11	71.6	312
7/27/2006	2006	summer	1	side channel	1	9:03 AM	22.6	8.48	6.04	69.9	312
7/27/2006	2006	summer	1	side channel	1	10:54 AM	23.3	7.46	6.30	73.7	312
7/27/2006	2006	summer	1	side channel	1	9:11 AM	22.6	8.42	6.44	74.5	312
7/27/2006	2006	summer	1	side channel	3	9:46 AM	22.9	8.35	6.38	74.3	312
7/27/2006	2006	summer	1	side channel	2	9:50 AM	22.9	8.28	6.29	73.4	312
7/27/2006	2006	summer	1	side channel	25	11:56 AM	24.5	8.23	5.85	70.4	313
10/11/2006	2006	autumn	1	side channel	6	7:48 AM	13.7	8.72	7.21	69.6	388
10/11/2006	2006	autumn	1	side channel	1	NA	NA	NA	NA	NA	NA
10/11/2006	2006	autumn	1	side channel	1	NA	NA	NA	4.54	NA	NA
10/11/2006	2006	autumn	1	side channel	2	8:04 AM	13.6	8.91	NA	43.8	386
10/11/2006	2006	autumn	1	side channel	4	NA	NA	NA	4.11	NA	NA
10/11/2006	2006	autumn	1	side channel	9	8:08 AM	13.6	8.70	NA	39.6	386
10/11/2006	2006	autumn	1	side channel	2	9:07 AM	13.9	7.79	5.97	57.9	380
10/11/2006	2006	autumn	1	side channel	1	9:18 AM	13.7	7.37	5.39	51.9	378
10/11/2006	2006	autumn	1	side channel	3	9:44 AM	13.0	7.87	5.22	50.9	377
10/12/2006	2006	autumn	2	side channel	10	7:57 AM	11.7	7.24	6.75	62.0	371
10/12/2006	2006	autumn	2	side channel	3	8:25 AM	14.0	7.53	6.96	67.6	337
10/12/2006	2006	autumn	2	side channel	2	8:27 AM	8.6	7.09	8.13	69.0	475
10/12/2006	2006	autumn	2	side channel	2	8:29 AM	14.0	6.32	6.86	66.1	335
10/16/2006	2006	autumn	4	channel in island	4	8:23 AM	13.8	7.00	7.93	76.6	358

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Habitat Type	Number of RGSM	Collection Time	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxygen saturation (%)	Specific Conductivity (µS/cm)
10/16/2006	2006	autumn	4	channel in island	1	8:31 AM	13.7	7.14	8.12	78.4	353
10/16/2006	2006	autumn	4	channel in island	1	8:35 AM	13.9	7.32	7.37	76.3	351
10/16/2006	2006	autumn	4	channel in island	1	NA	NA	NA	7.71	NA	NA
10/16/2006	2006	autumn	4	side channel	4	8:59 AM	13.8	7.42	7.91	76.6	378
10/16/2006	2006	autumn	4	side channel	3	NA	NA	NA	NA	NA	NA
10/16/2006	2006	autumn	4	side channel	8	NA	NA	NA	NA	NA	NA
10/16/2006	2006	autumn	4	side channel	12	9:21 AM	13.9	6.85	7.96	77.1	NA
10/16/2006	2006	autumn	4	side channel	2	9:24 AM	13.9	7.24	7.95	77.2	369
10/16/2006	2006	autumn	4	side channel	2	9:30 AM	14.1	7.16	8.30	80.7	359
10/16/2006	2006	autumn	4	side channel	6	9:32 AM	14.1	7.18	7.95	77.4	375
10/16/2006	2006	autumn	4	side channel	6	9:38 AM	14.1	7.09	8.28	80.7	377
10/16/2006	2006	autumn	4	side channel	2	9:42 AM	14.2	7.15	7.73	75.5	380
10/16/2006	2006	autumn	4	side channel	3	NA	14.1	7.27	8.15	79.0	377
10/16/2006	2006	autumn	4	side channel	2	9:49 AM	14.4	7.17	7.66	75.1	384
10/16/2006	2006	autumn	4	side channel	2	NA	14.1	7.28	7.97	77.6	357
10/16/2006	2006	autumn	4	side channel	2	9:57 AM	14.2	7.34	7.42	77.3	376
10/16/2006	2006	autumn	4	side channel	2	10:00 AM	14.1	7.35	7.84	76.2	363
10/16/2006	2006	autumn	4	side channel	4	10:16 AM	14.4	7.40	7.71	75.4	381
10/16/2006	2006	autumn	4	side channel	2	10:19 AM	14.4	7.45	7.81	76.7	379
10/16/2006	2006	autumn	4	side channel	2	10:27 AM	14.5	7.44	7.98	78.1	378
10/17/2006	2006	autumn	3	side channel	1	7:56 AM	13.3	6.05	7.28	69.7	354
10/17/2006	2006	autumn	3	side channel	1	8:28 AM	13.6	6.48	7.14	68.6	411
10/17/2006	2006	autumn	3	side channel	2	8:31 AM	13.6	6.27	7.16	68.8	407
10/17/2006	2006	autumn	3	side channel	2	8:53 AM	13.3	6.26	7.13	68.2	353
10/17/2006	2006	autumn	3	side channel	1	9:20 AM	13.8	6.51	7.09	68.5	397
10/17/2006	2006	autumn	3	side channel	5	10:51 AM	15.0	6.76	7.56	74.9	391
10/17/2006	2006	autumn	3	side channel	1	11:02 AM	15.5	6.54	7.50	75.1	389
10/18/2006	2006	autumn	5	side channel	4	8:45 AM	13.9	6.59	8.87	85.8	471

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Habitat Type	Number of RGSM	Collection Time	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxygen saturation (%)	Specific Conductivity (µS/cm)
10/18/2006	2006	autumn	5	side channel	22	8:50 AM	13.1	6.71	9.00	86.0	1083
10/18/2006	2006	autumn	5	side channel	2	8:58 AM	12.8	6.75	7.90	74.4	1079
10/18/2006	2006	autumn	5	side channel	2	9:00 AM	12.8	6.71	8.74	82.4	964
10/19/2006	2006	autumn	6	side channel	3	10:16 AM	11.8	5.62	10.10	93.3	503
10/19/2006	2006	autumn	6	side channel	3	10:13 AM	11.8	6.25	10.04	92.8	503
1/23/2007	2007	winter	3	side channel	1	9:01 AM	2.2	7.98	13.83	100.6	421
1/24/2007	2007	winter	2	side channel	1	9:29 AM	1.7	8.61	10.82	77.7	303
1/24/2007	2007	winter	2	side channel	2	10:11 AM	3.0	8.51	10.14	75.6	325
1/24/2007	2007	winter	2	side channel	2	10:15 AM	3.2	8.42	10.09	75.5	326
1/24/2007	2007	winter	2	side channel	1	10:36 AM	4.2	8.41	9.66	74.0	351
1/24/2007	2007	winter	2	side channel	1	1:45 PM	6.0	8.44	10.70	86.1	281
1/24/2007	2007	winter	2	side channel	1	1:48 PM	5.8	8.47	10.80	86.5	301
1/24/2007	2007	winter	2	side channel	3	1:57 PM	6.0	8.42	10.73	86.0	303
1/24/2007	2007	winter	2	side channel	1	2:00 PM	6.0	8.43	10.78	86.8	281
1/24/2007	2007	winter	2	side channel	1	2:03 PM	6.1	8.43	10.70	86.3	301
1/24/2007	2007	winter	2	side channel	4	2:05 PM	6.1	8.54	10.76	86.8	248
1/30/2007	2007	winter	6	side channel	1	10:37 AM	NA	NA	NA	NA	NA
1/30/2007	2007	winter	6	side channel	1	10:39 AM	NA	NA	NA	NA	NA
1/31/2007	2007	winter	5	side channel	3	8:49 AM	5.7	6.35	9.82	78.4	572
1/31/2007	2007	winter	5	side channel	1	8:51 AM	5.7	6.44	9.93	79.3	592
1/31/2007	2007	winter	5	side channel	1	9:04 AM	5.8	6.57	10.14	81.2	509
1/31/2007	2007	winter	5	side channel	1	9:09 AM	6.0	6.55	10.20	82.1	515
1/31/2007	2007	winter	5	side channel	1	9:16 AM	5.4	6.36	9.80	77.7	547
1/31/2007	2007	winter	5	side channel	1	9:17 AM	6.1	6.46	9.81	78.9	527
1/31/2007	2007	winter	5	side channel	10	9:38 AM	6.3	6.68	10.36	84.0	512
2/1/2007	2007	winter	4	side channel	2	8:30 AM	5.1	7.96	9.48	74.6	449
2/1/2007	2007	winter	4	side channel	3	9:07 AM	5.2	7.41	9.43	74.2	396
2/1/2007	2007	winter	4	side channel	12	9:39 AM	5.4	7.33	9.57	76.0	432

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Habitat Type	Number of RGSM	Collection Time	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxygen saturation (%)	Specific Conductivity (µS/cm)
2/1/2007	2007	winter	4	side channel	1	9:46 AM	5.5	7.58	9.59	76.1	310
4/17/2007	2007	spring	6	channel in island	1	10:52 AM	14.1	8.38	6.70	64.4	510
4/18/2007	2007	spring	5	side channel	1	9:13 AM	13.4	8.28	8.57	82.3	427
4/18/2007	2007	spring	5	side channel	1	9:15 AM	13.5	8.26	7.10	68.2	433
4/18/2007	2007	spring	5	side channel	1	9:37 AM	13.7	8.25	8.56	82.6	420
4/18/2007	2007	spring	5	side channel	1	12:06 PM	19.2	8.12	5.67	61.1	488
4/18/2007	2007	spring	5	side channel	4	12:08 PM	19.6	8.11	5.94	63.6	488
4/18/2007	2007	spring	5	side channel	1	12:11 PM	19.1	8.05	5.45	58.8	491
4/18/2007	2007	spring	5	side channel	1	12:12 PM	18.8	8.00	5.56	59.2	492
4/18/2007	2007	spring	5	side channel	4	12:40 PM	23.2	8.29	5.15	60.2	461
4/19/2007	2007	spring	4	side channel	1	8:59 AM	12.1	7.85	8.77	81.6	351
4/19/2007	2007	spring	4	side channel	2	9:01 AM	12.1	7.87	8.86	82.5	351
4/19/2007	2007	spring	4	side channel	3	9:57 AM	13.9	7.94	7.24	70.0	352
4/19/2007	2007	spring	4	channel in island	6	12:02 PM	15.6	8.25	7.70	77.6	355
4/19/2007	2007	spring	4	channel in island	1	12:12 PM	15.8	8.22	7.71	77.7	355
4/25/2007	2007	spring	2	side channel	1	8:12 AM	10.9	8.52	9.69	87.8	293
4/25/2007	2007	spring	2	side channel	1	8:24 AM	11.0	8.67	9.76	88.6	293
4/25/2007	2007	spring	2	side channel	1	8:26 AM	11.1	8.63	9.70	88.3	293
4/25/2007	2007	spring	2	side channel	2	8:29 AM	11.1	8.66	9.71	88.4	265
4/25/2007	2007	spring	2	side channel	13	8:32 AM	11.1	8.64	9.69	88.2	291
4/25/2007	2007	spring	2	side channel	3	8:41 AM	11.3	8.65	9.92	90.5	294
4/25/2007	2007	spring	2	side channel	1	8:46 AM	11.3	8.65	9.81	89.7	294
4/25/2007	2007	spring	2	side channel	1	8:53 AM	11.5	8.60	9.66	88.6	291
4/26/2007	2007	spring	1	side channel	1	8:26 AM	11.1	8.60	9.15	83.2	311
4/26/2007	2007	spring	1	side channel	1	9:46 AM	11.4	8.52	9.05	82.8	306
4/26/2007	2007	spring	1	side channel	1	10:37 AM	11.8	8.38	8.52	78.6	309
4/26/2007	2007	spring	1	side channel	2	10:43 AM	11.9	8.39	8.72	80.1	304
10/23/2007	2007	autumn	6	side channel	1	9:02 AM	4.6	7.84	13.50	104.7	678

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Habitat Type	Number of RGSM	Collection Time	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxygen saturation (%)	Specific Conductivity (µS/cm)
10/23/2007	2007	autumn	6	side channel	1	9:30 AM	5.2	8.23	13.54	106.9	668
10/24/2007	2007	autumn	5	side channel	5	8:41 AM	4.0	7.35	10.98	83.7	593
10/24/2007	2007	autumn	5	side channel	1	8:43 AM	4.2	7.33	10.83	83.1	591
10/24/2007	2007	autumn	5	side channel	1	8:45 AM	6.1	7.85	10.18	82.0	622
10/24/2007	2007	autumn	5	side channel	1	8:52 AM	8.2	8.38	9.93	84.3	659
10/24/2007	2007	autumn	5	side channel	1	9:02 AM	8.2	8.22	9.77	83.0	657
10/24/2007	2007	autumn	5	side channel	1	9:52 AM	8.4	8.37	10.63	90.3	658
10/24/2007	2007	autumn	5	side channel	2	10:27 AM	9.3	8.45	9.89	86.3	647
10/24/2007	2007	autumn	5	side channel	1	10:29 AM	9.3	8.49	9.73	84.9	657
10/24/2007	2007	autumn	5	side channel	3	10:31 AM	9.4	8.52	9.54	83.4	665
10/24/2007	2007	autumn	5	side channel	2	10:32 AM	9.5	8.50	9.47	83.1	671
10/30/2007	2007	autumn	2	side channel	3	8:20 AM	9.3	8.34	9.71	84.6	341
10/30/2007	2007	autumn	2	side channel	12	8:23 AM	9.3	8.30	9.62	83.8	341
10/30/2007	2007	autumn	2	side channel	1	8:24 AM	9.3	8.29	9.76	85.1	341
10/30/2007	2007	autumn	2	side channel	7	8:26 AM	9.3	8.30	9.71	84.6	341
10/30/2007	2007	autumn	2	side channel	1	8:28 AM	9.3	8.30	9.74	84.9	341
10/30/2007	2007	autumn	2	side channel	1	8:28 AM	9.3	8.30	9.74	84.9	341
10/30/2007	2007	autumn	2	side channel	3	8:29 AM	9.3	8.35	9.73	84.7	340
10/30/2007	2007	autumn	2	side channel	1	8:31 AM	9.3	8.37	10.64	92.8	341
10/30/2007	2007	autumn	2	side channel	1	8:32 AM	9.2	8.36	9.76	85.0	341
10/30/2007	2007	autumn	2	side channel	2	8:33 AM	9.2	8.37	9.73	84.8	340
10/30/2007	2007	autumn	2	side channel	1	8:34 AM	9.3	8.34	9.85	85.9	341
10/30/2007	2007	autumn	2	side channel	8	8:37 AM	9.3	8.39	9.99	87.3	340
10/30/2007	2007	autumn	2	side channel	1	8:38 AM	9.3	8.39	9.87	85.8	340
10/30/2007	2007	autumn	2	side channel	2	8:39 AM	9.3	8.35	9.78	85.2	340
10/30/2007	2007	autumn	2	side channel	5	8:41 AM	9.3	8.32	9.91	86.2	341
10/30/2007	2007	autumn	2	side channel	5	8:41 AM	9.3	8.32	9.91	86.2	341
10/30/2007	2007	autumn	2	side channel	6	8:42 AM	9.2	8.35	9.83	85.6	341

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Habitat Type	Number of RGSM	Collection Time	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxygen saturation (%)	Specific Conductivity (µS/cm)
10/30/2007	2007	autumn	2	side channel	6	8:42 AM	9.2	8.35	9.83	85.6	341
10/30/2007	2007	autumn	2	side channel	3	8:44 AM	9.3	8.37	9.82	85.6	341
10/30/2007	2007	autumn	2	side channel	4	8:45 AM	9.2	8.40	10.08	88.3	340
10/30/2007	2007	autumn	2	side channel	2	8:49 AM	9.3	8.39	9.87	86.1	340
10/30/2007	2007	autumn	2	side channel	2	8:49 AM	9.3	8.39	9.87	86.1	340
10/30/2007	2007	autumn	2	side channel	3	8:50 AM	9.3	8.39	9.85	86.0	339
10/30/2007	2007	autumn	2	side channel	12	8:51 AM	9.2	8.37	9.79	85.0	340
10/30/2007	2007	autumn	2	side channel	1	8:52 AM	9.3	8.40	9.81	85.5	340
10/30/2007	2007	autumn	2	side channel	8	8:54 AM	9.2	8.36	9.79	85.3	340
10/30/2007	2007	autumn	2	side channel	3	8:55 AM	9.2	8.35	9.84	85.7	340
10/31/2007	2007	autumn	1	side channel	10	8:19 AM	11.1	8.18	8.87	80.7	341
10/31/2007	2007	autumn	1	side channel	27	8:21 AM	11.1	8.17	8.76	80.1	341
10/31/2007	2007	autumn	1	side channel	56	8:23 AM	11.0	8.18	8.93	81.2	342
1/22/2008	2008	winter	6	side channel	1	11:18 AM	2.6	8.11	15.54	114.8	583
1/22/2008	2008	winter	6	side channel	1	11:23 AM	2.9	8.35	14.38	106.6	585
1/22/2008	2008	winter	6	side channel	3	11:25 AM	3.0	8.46	14.10	104.6	579
1/22/2008	2008	winter	6	side channel	7	11:26 AM	3.1	8.28	14.12	105.3	586
1/22/2008	2008	winter	6	side channel	2	11:24 AM	2.9	8.23	14.35	106.6	585
1/22/2008	2008	winter	6	side channel	3	11:30 AM	2.8	8.38	15.21	112.9	586
1/22/2008	2008	winter	6	side channel	1	11:34 AM	2.5	8.27	14.57	107.0	584
1/22/2008	2008	winter	6	side channel	9	11:36 AM	2.5	8.42	14.99	109.9	558
1/22/2008	2008	winter	6	side channel	6	11:38 AM	3.0	8.15	14.47	107.8	578
1/22/2008	2008	winter	6	side channel	2	11:40 AM	3.0	8.14	14.59	108.6	586
1/22/2008	2008	winter	6	side channel	1	11:42 AM	3.0	8.33	14.36	106.8	580
1/22/2008	2008	winter	6	side channel	1	11:46 AM	3.1	8.19	14.09	105.0	580
1/22/2008	2008	winter	6	side channel	11	11:32 AM	2.6	8.35	14.81	109.9	581
1/23/2008	2008	winter	5	side channel	1	9:42 AM	2.6	8.28	10.62	78.2	531
1/23/2008	2008	winter	5	side channel	4	9:50 AM	2.7	8.27	10.38	76.5	561

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Habitat Type	Number of RGSM	Collection Time	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxygen saturation (%)	Specific Conductivity (µS/cm)
1/23/2008	2008	winter	5	side channel	1	9:54 AM	2.7	7.89	10.53	77.6	456
1/23/2008	2008	winter	5	side channel	1	9:55 AM	2.8	8.04	10.41	77.0	525
1/23/2008	2008	winter	5	side channel	6	9:56 AM	2.8	7.99	10.46	77.5	569
1/23/2008	2008	winter	5	side channel	2	9:57 AM	2.8	7.99	10.57	78.1	550
1/23/2008	2008	winter	5	side channel	1	9:59 AM	2.8	7.98	10.48	77.6	540
1/23/2008	2008	winter	5	side channel	1	10:01 AM	2.8	7.95	10.43	77.2	560
1/23/2008	2008	winter	5	side channel	1	10:03 AM	2.8	8.15	10.42	77.1	565
1/23/2008	2008	winter	5	side channel	3	10:05 AM	2.9	8.17	10.25	76.1	529
1/23/2008	2008	winter	5	side channel	1	10:06 AM	2.9	8.07	10.54	78.2	550
1/23/2008	2008	winter	5	side channel	1	10:07 AM	2.9	8.03	10.51	78.0	565
1/23/2008	2008	winter	5	side channel	3	10:10 AM	2.9	7.96	10.42	77.4	555
1/23/2008	2008	winter	5	side channel	1	10:12 AM	3.0	7.99	10.37	77.0	548
1/23/2008	2008	winter	5	side channel	1	10:13 AM	3.0	8.08	10.43	77.6	560
1/23/2008	2008	winter	5	side channel	2	10:16 AM	3.1	8.19	10.60	79.1	533
1/23/2008	2008	winter	5	side channel	1	10:23 AM	3.0	8.20	10.26	76.5	580
1/23/2008	2008	winter	5	side channel	1	10:24 AM	3.1	8.08	10.10	75.4	578
1/23/2008	2008	winter	5	side channel	1	10:25 AM	3.1	8.09	10.41	77.7	558
1/23/2008	2008	winter	5	side channel	1	10:28 AM	3.1	8.14	10.52	78.2	568
1/23/2008	2008	winter	5	side channel	1	10:30 AM	3.1	8.17	10.53	78.7	567
1/23/2008	2008	winter	5	side channel	1	10:33 AM	3.2	8.07	10.98	82.0	574
1/23/2008	2008	winter	5	side channel	1	10:34 AM	3.2	8.15	10.60	79.3	565
1/23/2008	2008	winter	5	side channel	1	10:35 AM	3.2	8.14	10.09	80.2	565
1/23/2008	2008	winter	5	side channel	1	10:40 AM	3.3	8.02	10.29	77.3	561
1/24/2008	2008	winter	4	side channel	11	8:29 AM	4.4	8.23	10.07	77.8	449
1/24/2008	2008	winter	4	side channel	1	8:47 AM	4.5	8.13	10.02	77.5	447
1/24/2008	2008	winter	4	side channel	2	8:48 AM	4.5	8.09	10.16	78.6	445
1/24/2008	2008	winter	4	side channel	2	8:49 AM	4.5	8.15	10.04	77.7	447
1/24/2008	2008	winter	4	side channel	3	8:51 AM	4.5	8.04	10.08	78.0	444

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Habitat Type	Number of RGSM	Collection Time	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxygen saturation (%)	Specific Conductivity (µS/cm)
1/24/2008	2008	winter	4	side channel	2	8:55 AM	4.3	8.14	10.25	78.8	449
1/24/2008	2008	winter	4	side channel	1	9:00 AM	4.3	8.15	10.32	79.5	449
1/24/2008	2008	winter	4	side channel	3	9:04 AM	4.3	8.17	10.27	79.1	448
1/24/2008	2008	winter	4	side channel	2	9:09 AM	4.5	8.12	10.12	78.3	447
1/24/2008	2008	winter	4	side channel	2	9:11 AM	4.5	8.15	10.09	78.0	447
1/24/2008	2008	winter	4	side channel	4	9:14 AM	4.5	8.14	10.03	77.5	444
1/24/2008	2008	winter	4	side channel	1	9:02 AM	4.4	8.14	10.30	79.6	448
1/24/2008	2008	winter	4	side channel	3	9:05 AM	4.5	8.19	9.90	76.5	438
1/24/2008	2008	winter	4	side channel	10	9:10 AM	4.4	8.09	10.04	77.7	448
1/28/2008	2008	winter	3	channel in island	2	9:41 AM	5.7	7.99	11.82	94.3	382
1/28/2008	2008	winter	3	channel in island	2	9:43 AM	5.8	8.08	11.54	92.1	381
1/29/2008	2008	winter	2	side channel	1	9:11 AM	1.4	8.77	12.69	90.6	350
1/29/2008	2008	winter	2	side channel	1	9:12 AM	1.4	8.79	12.58	89.9	376
1/29/2008	2008	winter	2	side channel	1	9:18 AM	1.5	8.92	12.32	88.0	376
1/29/2008	2008	winter	2	side channel	1	9:19 AM	1.5	8.64	12.44	88.9	373
1/29/2008	2008	winter	2	side channel	1	9:28 AM	1.6	8.65	12.66	90.7	377
1/29/2008	2008	winter	2	side channel	2	9:32 AM	1.6	8.68	12.50	89.6	376
1/29/2008	2008	winter	2	side channel	1	9:34 AM	1.6	8.70	12.35	89.3	376
1/29/2008	2008	winter	2	side channel	42	9:37 AM	1.8	8.30	12.85	92.5	376
1/30/2008	2008	winter	1	side channel	1	8:45 AM	0.6	8.09	10.97	76.7	335
1/30/2008	2008	winter	1	side channel	1	9:03 AM	0.7	8.30	11.35	79.2	346
1/30/2008	2008	winter	1	side channel	1	9:05 AM	0.7	8.17	11.00	76.9	346
1/30/2008	2008	winter	1	side channel	2	9:06 AM	0.7	8.20	11.12	77.5	345
1/30/2008	2008	winter	1	side channel	1	9:14 AM	0.7	8.13	11.37	80.0	343
1/30/2008	2008	winter	1	side channel	1	10:11 AM	0.9	8.13	11.35	79.6	337
4/8/2008	2008	spring	4	side channel	2	9:22 AM	11.2	7.58	9.14	83.3	308
4/8/2008	2008	spring	4	side channel	4	9:33 AM	11.5	7.76	9.13	83.8	311
4/8/2008	2008	spring	4	side channel	1	9:35 AM	11.4	7.81	9.05	82.9	309

* Original number did not contain an "S".

Table 3. Results of fish collection, Site Number, Date, Habitat Type, Number RGSM, Temperature, pH, dissolved oxygen, and specific conductivity. [Easting and Northing meter coordinates of UTM 13, NAD83; NA, not available]

RGSM Collection Date	Year	Season	Site Number	Habitat Type	Number of RGSM	Collection Time	Temperature (°C)	pH	Dissolved Oxygen (mg/L)	Oxygen saturation (%)	Specific Conductivity (µS/cm)
4/8/2008	2008	spring	4	side channel	1	9:37 AM	11.4	7.69	9.11	83.4	310
4/9/2008	2008	spring	6	channel confluence	1	11:05 AM	13.7	8.12	8.59	83.0	344
4/9/2008	2008	spring	6	side channel	2	11:18 AM	14.0	8.46	10.01	96.8	361
4/15/2008	2008	spring	2	side channel	7	8:12 AM	9.3	7.68	9.35	81.3	275
4/16/2008	2008	spring	1	side channel	2	10:03 AM	9.7	8.01	10.00	88.0	276
4/16/2008	2008	spring	1	side channel	1	10:07 AM	9.8	8.02	10.04	88.4	274
7/9/2008	2008	summer	5	channel mouth	15	9:44 AM	22.7	8.17	7.00	81.9	361
7/9/2008	2008	summer	5	channel mouth	1	9:45 AM	22.7	8.17	7.01	81.6	399
7/15/2008	2008	summer	2	side channel	1	8:24 AM	21.3	8.24	6.28	82.3	267
7/15/2008	2008	summer	2	side channel	1	8:46 AM	21.7	8.31	7.34	84.0	232
7/15/2008	2008	summer	2	side channel	1	9:33 AM	22.6	8.35	7.16	82.8	265
7/15/2008	2008	summer	2	side channel	2	9:41 AM	22.7	8.33	7.29	84.4	277
7/15/2008	2008	summer	2	side channel	1	10:38 AM	23.1	8.27	7.16	83.5	282

* Original number did not contain an "S".

Table 4. Water Quality Results and RGSM Catch Results during Seine Hauls. [RGSM, Rio Grande silvery minnow; n, number; mean, average; min, minimum; max, maximum; SD, standard deviation]

Site Number and Collection Date	Number of RGSM per Successful Seine Haul					Temperature (°C)				
	n	mean	min	max	SD	n	mean	min	max	SD
Site 1, July 27 2006	25	4.2	1	25	5.2	25	23.45	22.05	25.62	1.03
Site 2, July 26 2006	6	9.2	1	21	7.7	6	23.48	23.40	23.60	0.08
Site 3, July 25 2006	11	1.7	1	3	0.8	0				
Site 4, July 20 2006	29	3.6	1	24	4.4	23	24.68	23.05	26.96	1.31
Site 5, July 19 2006	15	2.3	1	8	1.9	15	26.46	24.42	34.58	3.37
Site 6, July 18 2006	17	2.4	1	6	1.3	17	24.52	23.60	25.52	0.62
Site 1, October 11 2006	33	2.5	1	9	1.8	25	13.69	13.03	14.10	0.21
Site 2, October 12 2006	19	4.9	1	34	7.6	18	13.56	8.61	14.12	1.36
Site 3, October 17 2006	26	1.8	1	5	1.2	26	13.65	12.21	15.48	0.80
Site 4, October 16 2006	29	3.2	1	12	2.4	26	14.25	13.67	15.14	0.35
Site 5, October 18 2006	22	3.7	1	22	4.5	22	14.28	12.76	16.70	0.86
Site 6, October 19 2006	4	4.8	2	11	4.2	4	11.53	11.06	11.82	0.35
Site 1, January 25 2007	1	1.0	1	1		0				
Site 2, January 24 2007	19	1.7	1	4	1.0	19	3.52	0.82	6.13	1.95
Site 3, January 23 2007	21	2.0	1	9	2.0	19	2.56	1.51	4.20	0.89
Site 4, February 01 2007	15	2.5	1	12	2.8	15	5.48	4.51	6.03	0.42
Site 5, January 31 2007	30	3.2	1	24	4.7	30	5.92	5.35	6.32	0.20
Site 6, January 30 2007	24	2.5	1	7	1.8	2	3.97	3.96	3.98	0.01
Site 1, April 26 2007	22	1.4	1	3	0.6	22	11.48	11.05	12.13	0.32
Site 2, April 25 2007	23	2.6	1	13	3.0	23	12.42	9.69	15.55	1.53
Site 3, April 24 2007	13	2.8	1	11	2.7	13	11.60	11.21	12.06	0.31
Site 4, April 19 2007	18	1.8	1	6	1.4	18	12.75	10.54	15.84	1.51
Site 5, April 18 2007	13	2.4	1	8	2.1	12	16.77	11.86	23.23	3.75
Site 6, April 17 2007	3	1.0	1	1	0.0	3	13.12	12.50	14.08	0.84

Table 4. Water Quality Results and RGSM Catch Results during Seine Hauls. [RGSM, Rio Grande silvery minnow; n, number; mean, average; min, minimum; max, maximum; SD, standard deviation]

Site Number and Collection Date	Number of RGSM per Successful Seine Haul					Temperature (°C)				
	n	mean	min	max	SD	n	mean	min	max	SD
Site 1, October 31 2007	3	31.0	10	56	23.3	3	11.07	10.99	11.12	0.07
Site 2, October 30 2007	27	3.9	1	12	3.2	27	9.27	9.16	9.32	0.03
Site 3, October 29 2007	32	1.7	1	5	1.1	32	12.65	11.20	14.74	1.05
Site 4, October 25 2007	6	16.2	2	43	14.0	6	7.42	7.26	7.59	0.14
Site 5, October 24 2007	24	1.8	1	5	1.2	24	8.23	3.65	10.04	1.83
Site 6, October 23 2007	22	1.3	1	4	0.7	22	6.07	4.57	8.12	1.13
Site 1, January 30 2008	20	5.1	1	37	10.8	20	0.75	0.64	1.11	0.13
Site 2, January 29 2008	9	10.6	1	45	18.7	9	1.58	1.42	1.80	0.13
Site 3, January 28 2008	24	3.8	1	13	3.7	23	5.85	5.30	6.39	0.38
Site 4, January 24 2008	21	4.0	1	14	3.7	21	4.45	4.32	4.52	0.07
Site 5, January 23 2008	30	1.6	1	6	1.2	30	3.02	2.62	3.56	0.25
Site 6, January 22 2008	20	3.2	1	11	2.9	20	2.47	1.15	3.08	0.62
Site 1, April 16 2008	31	2.4	1	8	2.0	31	9.44	8.98	10.30	0.32
Site 2, April 15 2008	12	8.8	1	14	4.5	12	9.24	9.15	9.34	0.06
Site 3, April 14 2008	33	2.8	1	8	1.8	33	11.28	10.31	12.47	0.60
Site 4, April 10 2008	15	6.2	1	23	6.8	15	11.08	10.35	11.68	0.42
Site 5, April 10 2008	1	1.0	1	1		1	10.44	10.44	10.44	
Site 6, April 09 2008	17	1.7	1	4	0.9	15	13.52	13.22	14.01	0.24
Site 1, July 16 2008	20	5.4	1	40	9.1	11	19.76	2.41	21.70	5.75
Site 2, July 15 2008	30	2.7	1	21	3.8	30	22.22	21.10	23.74	0.67
Site 3, July 14 2008	32	3.5	1	16	3.7	32	22.68	22.22	23.70	0.43
Site 4, July 10 2008	31	4.0	1	24	5.1	15	21.35	20.74	21.80	0.29
Site 5, July 09 2008	28	3.5	1	15	3.7	20	22.08	10.37	22.87	2.76
Site 6, July 08 2008	32	3.5	1	15	3.0	32	22.91	22.80	23.57	0.17

Table 4. Water Quality Results and RGSM Catch Results during Seine Hauls. [RGSM, Rio Grande silvery minnow; n, number; mean, average; min, minimum; max, maximum; SD, standard deviation]

Site Number and Collection Date	pH (standard units)					Dissolved Oxygen (mg/L)				
	n	mean	min	max	std	n	mean	min	max	SD
Site 1, July 27 2006	25	8.13	7.30	8.50	0.38	23	6.19	5.57	6.60	0.29
Site 2, July 26 2006	5	7.38	7.16	7.61	0.22	5	7.25	6.67	7.50	0.34
Site 3, July 25 2006	0					0				
Site 4, July 20 2006	23	8.20	7.90	8.51	0.12	22	7.29	6.80	7.63	0.19
Site 5, July 19 2006	15	7.95	7.81	8.12	0.09	14	6.08	5.02	6.90	0.45
Site 6, July 18 2006	17	9.36	9.07	9.48	0.12	17	7.02	6.76	7.35	0.16
Site 1, October 11 2006	25	7.97	6.99	8.91	0.49	25	5.25	3.92	7.43	0.83
Site 2, October 12 2006	17	7.35	6.32	7.69	0.32	18	6.93	6.62	8.13	0.36
Site 3, October 17 2006	26	6.37	6.01	6.79	0.23	26	7.24	6.94	7.73	0.21
Site 4, October 16 2006	25	7.27	6.85	7.51	0.16	26	7.87	7.37	8.30	0.23
Site 5, October 18 2006	22	6.77	6.03	7.08	0.27	22	8.48	7.47	9.16	0.44
Site 6, October 19 2006	4	6.01	5.62	6.34	0.35	4	10.13	10.02	10.34	0.15
Site 1, January 25 2007	0					0				
Site 2, January 24 2007	19	8.48	8.35	8.61	0.07	19	10.76	9.66	13.01	0.87
Site 3, January 23 2007	19	7.89	7.54	8.09	0.16	19	13.79	13.07	14.40	0.39
Site 4, February 01 2007	15	7.61	6.79	8.08	0.41	15	9.55	9.40	10.00	0.14
Site 5, January 31 2007	30	6.54	6.20	6.95	0.13	30	10.19	9.80	10.61	0.18
Site 6, January 30 2007	2	7.75	7.62	7.87	0.18	2	11.71	11.71	11.71	0.00
Site 1, April 26 2007	22	8.51	8.38	8.67	0.07	22	8.79	8.21	9.28	0.29
Site 2, April 25 2007	23	8.62	8.36	8.73	0.08	23	9.41	8.28	10.01	0.48
Site 3, April 24 2007	12	8.18	7.91	8.40	0.14	13	6.76	5.56	7.45	0.62
Site 4, April 19 2007	18	7.92	7.71	8.25	0.17	18	8.15	7.24	8.90	0.57
Site 5, April 18 2007	12	8.17	7.87	8.39	0.15	12	6.46	5.11	8.57	1.26
Site 6, April 17 2007	3	8.35	8.27	8.41	0.07	3	7.51	6.70	8.02	0.71

Table 4. Water Quality Results and RGSM Catch Results during Seine Hauls. [RGSM, Rio Grande silvery minnow; n, number; mean, average; min, minimum; max, maximum; SD, standard deviation]

Site Number and Collection Date	pH (standard units)					Dissolved Oxygen (mg/L)				
	n	mean	min	max	std	n	mean	min	max	SD
Site 1, October 31 2007	3	8.18	8.17	8.18	0.01	3	8.85	8.76	8.93	0.09
Site 2, October 30 2007	27	8.35	8.29	8.40	0.03	27	9.85	9.62	10.64	0.18
Site 3, October 29 2007	32	8.08	7.41	8.50	0.25	32	11.87	10.54	12.90	0.58
Site 4, October 25 2007	6	7.94	7.62	8.32	0.27	6	9.73	9.62	9.84	0.09
Site 5, October 24 2007	24	8.32	7.33	8.56	0.33	24	10.11	8.66	11.94	0.61
Site 6, October 23 2007	22	8.27	7.76	8.61	0.22	22	12.96	3.66	14.50	2.13
Site 1, January 30 2008	20	8.14	8.03	8.30	0.06	20	11.28	10.97	11.58	0.19
Site 2, January 29 2008	9	8.67	8.30	8.92	0.17	9	12.49	12.02	12.85	0.24
Site 3, January 28 2008	23	7.97	7.61	8.19	0.19	23	11.81	10.87	13.33	0.56
Site 4, January 24 2008	21	8.11	7.98	8.23	0.07	19	10.21	9.90	11.12	0.26
Site 5, January 23 2008	30	8.10	7.89	8.28	0.10	30	10.45	10.09	10.98	0.19
Site 6, January 22 2008	20	8.28	7.93	8.77	0.17	20	14.74	14.09	15.80	0.52
Site 1, April 16 2008	31	7.92	7.68	8.13	0.12	31	10.11	9.86	10.90	0.18
Site 2, April 15 2008	12	7.82	7.62	8.02	0.11	12	9.40	9.00	9.57	0.15
Site 3, April 14 2008	33	8.07	7.52	8.48	0.23	33	11.24	10.37	12.69	0.62
Site 4, April 10 2008	15	7.46	6.59	7.86	0.38	15	8.73	7.98	9.19	0.39
Site 5, April 10 2008	1	7.84	7.84	7.84		1	8.57	8.57	8.57	
Site 6, April 09 2008	15	8.23	7.98	8.53	0.19	15	8.71	8.18	10.01	0.43
Site 1, July 16 2008	11	8.23	8.11	8.35	0.08	11	7.37	7.15	7.83	0.20
Site 2, July 15 2008	30	8.32	8.05	8.49	0.11	30	7.01	5.92	7.43	0.38
Site 3, July 14 2008	32	7.95	7.82	8.26	0.11	32	7.21	6.90	7.83	0.28
Site 4, July 10 2008	15	8.09	7.72	8.22	0.11	15	6.76	6.17	7.10	0.27
Site 5, July 09 2008	20	8.28	8.12	8.69	0.18	20	6.95	6.58	7.26	0.16
Site 6, July 08 2008	32	8.31	8.02	8.49	0.14	32	6.98	6.03	7.78	0.50

Table 4. Water Quality Results and RGSM Catch Results during Seine Hauls. [RGSM, Rio Grande silvery minnow; n, number; mean, average; min, minimum; max, maximum; SD, standard deviation]

Site Number and Collection Date	Specific Conductivity (uS/cm)				
	n	mean	min	max	SD
Site 1, July 27 2006	25	312.2	310	314	1.0
Site 2, July 26 2006	5	307.0	303	312	3.7
Site 3, July 25 2006	0				
Site 4, July 20 2006	23	396.3	391	401	2.1
Site 5, July 19 2006	15	623.6	563	678	36.7
Site 6, July 18 2006	17	671.8	669	674	1.3
Site 1, October 11 2006	25	380.5	374	388	4.2
Site 2, October 12 2006	18	344.9	320	475	33.9
Site 3, October 17 2006	26	381.7	353	430	19.7
Site 4, October 16 2006	25	380.9	343	492	34.8
Site 5, October 18 2006	22	608.6	424	1083	245.7
Site 6, October 19 2006	4	501.0	498	503	2.4
Site 1, January 25 2007	0				
Site 2, January 24 2007	19	309.1	248	351	23.1
Site 3, January 23 2007	19	403.6	330	427	27.6
Site 4, February 01 2007	15	433.1	310	499	41.1
Site 5, January 31 2007	30	519.5	417	592	33.1
Site 6, January 30 2007	2	485.0	484	486	1.4
Site 1, April 26 2007	22	306.5	298	311	2.9
Site 2, April 25 2007	23	293.7	263	304	10.1
Site 3, April 24 2007	13	350.6	331	394	15.9
Site 4, April 19 2007	18	352.2	350	355	1.8
Site 5, April 18 2007	12	495.4	420	691	94.5
Site 6, April 17 2007	3	518.3	510	523	7.2

Table 4. Water Quality Results and RGSM Catch Results during Seine Hauls. [RGSM, Rio Grande silvery minnow; n, number; mean, average; min, minimum; max, maximum; SD, standard deviation]

Site Number and Collection Date	Specific Conductivity (uS/cm)				
	n	mean	min	max	SD
Site 1, October 31 2007	3	341.3	341	342	0.6
Site 2, October 30 2007	27	340.5	339	341	0.6
Site 3, October 29 2007	32	424.5	395	487	25.6
Site 4, October 25 2007	6	474.2	472	475	1.3
Site 5, October 24 2007	24	651.3	591	689	26.4
Site 6, October 23 2007	22	676.7	660	727	12.0
Site 1, January 30 2008	19	344.4	335	352	5.8
Site 2, January 29 2008	9	373.0	350	377	8.7
Site 3, January 28 2008	23	392.7	370	419	17.5
Site 4, January 24 2008	21	447.2	438	454	3.0
Site 5, January 23 2008	30	549.0	456	580	24.7
Site 6, January 22 2008	20	577.7	507	587	17.8
Site 1, April 16 2008	31	273.2	251	277	5.9
Site 2, April 15 2008	12	276.8	273	281	2.6
Site 3, April 14 2008	33	278.2	268	294	4.0
Site 4, April 10 2008	15	313.5	308	328	5.0
Site 5, April 10 2008	1	340.0	340	340	
Site 6, April 09 2008	15	362.4	344	396	11.2
Site 1, July 16 2008	11	270.1	267	272	1.6
Site 2, July 15 2008	30	274.0	232	304	13.1
Site 3, July 14 2008	32	290.9	252	320	16.1
Site 4, July 10 2008	15	341.7	317	350	9.9
Site 5, July 09 2008	20	384.7	361	400	10.6
Site 6, July 08 2008	32	382.0	293	536	37.3

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS		
Report generated:	7/31/2007	11:15:46	
Report from file:	...\SN45473 2006-07-17 130000 Site4-7-17-06.bin		
Win-Situ Version		4.55.3.0	
Serial number:		45473	
Firmware Version		1.58	
Unit name:		Nike	
Barometric Pressure:	636.501	mmHg	
Test defined on:	7/17/2006	2:09:02	
Test scheduled for:	7/17/2006	13:00:00	
Test started on:	7/17/2006	13:00:00	
Test stopped on:	7/31/2006	15:30:09	
Data gathered using linear testing			
Time between data points	900	seconds	
Number of data samples:	944		

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
7/21/2006	15:15:00	25.9	7.51	111.1
7/21/2006	15:30:00	25.9	7.56	111.7
7/21/2006	15:45:00	25.9	7.55	111.5
7/21/2006	16:00:00	25.7	7.53	111.1
7/21/2006	16:15:00	25.6	7.52	110.6
7/21/2006	16:30:00	25.5	7.49	109.9
7/21/2006	16:45:00	25.3	7.47	109.2
7/21/2006	17:00:00	25.2	7.45	108.7
7/21/2006	17:15:00	25.1	7.43	108.2
7/21/2006	17:30:00	24.8	7.42	107.5
7/21/2006	17:45:00	24.6	7.38	106.4
7/21/2006	18:00:00	24.4	7.21	103.6
7/21/2006	18:15:00	24.3	7.10	101.9
7/21/2006	18:30:00	24.3	7.09	101.7
7/21/2006	18:45:00	24.2	7.09	101.6
7/21/2006	19:00:00	24.2	7.17	102.7
7/21/2006	19:15:00	24.2	7.35	105.1
7/21/2006	19:30:00	24.2	7.34	105.0
7/21/2006	19:45:00	24.1	7.33	104.8
7/21/2006	20:00:00	24.1	7.32	104.6
7/21/2006	20:15:00	24.0	7.31	104.4
7/21/2006	20:30:00	24.0	7.31	104.2
7/21/2006	20:45:00	23.9	7.31	104.1
7/21/2006	21:00:00	23.8	7.29	103.6
7/21/2006	21:15:00	23.7	7.30	103.6
7/21/2006	21:30:00	23.6	7.30	103.4
7/21/2006	21:45:00	23.5	7.30	103.2
7/21/2006	22:00:00	23.4	7.31	103.0
7/21/2006	22:15:00	23.3	7.31	102.9

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/21/2006	22:30:00	23.2	7.31	102.8
7/21/2006	22:45:00	23.2	7.31	102.6
7/21/2006	23:00:00	23.2	7.31	102.6
7/21/2006	23:15:00	23.2	7.30	102.4
7/21/2006	23:30:00	23.2	7.29	102.4
7/21/2006	23:45:00	23.2	7.30	102.5
7/22/2006	0:00:00	23.2	7.30	102.6
7/22/2006	0:15:00	23.2	7.30	102.6
7/22/2006	0:30:00	23.2	7.30	102.6
7/22/2006	0:45:00	23.2	7.30	102.5
7/22/2006	1:00:00	23.2	7.29	102.4
7/22/2006	1:15:00	23.1	7.31	102.5
7/22/2006	1:30:00	23.1	7.31	102.6
7/22/2006	1:45:00	23.1	7.31	102.5
7/22/2006	2:00:00	23.1	7.31	102.4
7/22/2006	2:15:00	23.1	7.31	102.4
7/22/2006	2:30:00	23.0	7.31	102.4
7/22/2006	2:45:00	23.0	7.30	102.0
7/22/2006	3:00:00	22.9	7.28	101.7
7/22/2006	3:15:00	22.9	7.24	101.0
7/22/2006	3:30:00	22.8	7.29	101.6
7/22/2006	3:45:00	22.8	7.32	102.1
7/22/2006	4:00:00	22.8	7.33	102.1
7/22/2006	4:15:00	22.7	7.33	102.1
7/22/2006	4:30:00	22.7	7.30	101.5
7/22/2006	4:45:00	22.7	7.28	101.3
7/22/2006	5:00:00	22.6	7.09	98.5
7/22/2006	5:15:00	22.5	7.10	98.5
7/22/2006	5:30:00	22.5	7.27	100.7
7/22/2006	5:45:00	22.4	7.30	101.1
7/22/2006	6:00:00	22.3	7.31	101.0
7/22/2006	6:15:00	22.3	7.29	100.7
7/22/2006	6:30:00	22.2	7.31	100.8
7/22/2006	6:45:00	22.2	7.33	101.0
7/22/2006	7:00:00	22.1	7.35	101.0
7/22/2006	7:15:00	22.0	7.38	101.3
7/22/2006	7:30:00	22.0	7.43	102.0
7/22/2006	7:45:00	22.0	7.47	102.5
7/22/2006	8:00:00	22.0	7.50	102.8
7/22/2006	8:15:00	21.9	7.53	103.2
7/22/2006	8:30:00	22.0	7.55	103.6
7/22/2006	8:45:00	22.0	7.58	104.0
7/22/2006	9:00:00	22.1	7.62	104.7
7/22/2006	9:15:00	22.2	7.65	105.4
7/22/2006	9:30:00	22.3	7.67	105.9
7/22/2006	9:45:00	22.4	7.70	106.5
7/22/2006	10:00:00	22.6	7.70	106.9

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/22/2006	10:15:00	22.7	7.73	107.6
7/22/2006	10:30:00	22.9	7.74	108.1
7/22/2006	10:45:00	23.1	7.73	108.3
7/22/2006	11:00:00	23.2	7.77	109.3
7/22/2006	11:15:00	23.4	7.78	109.7
7/22/2006	11:30:00	23.6	7.75	109.7
7/22/2006	11:45:00	23.8	7.69	109.3
7/22/2006	12:00:00	24.0	7.77	110.7
7/22/2006	12:15:00	24.2	7.68	110.0
7/22/2006	12:30:00	24.4	7.75	111.4
7/22/2006	12:45:00	24.6	7.54	108.8
7/22/2006	13:00:00	24.8	7.44	107.8
7/22/2006	13:15:00	25.0	7.52	109.3
7/22/2006	13:30:00	25.2	7.59	110.7
7/22/2006	13:45:00	25.3	7.58	110.9
7/22/2006	14:00:00	25.5	7.58	111.3
7/22/2006	14:15:00	25.7	7.30	107.6
7/22/2006	14:30:00	25.9	7.36	108.7
7/22/2006	14:45:00	26.0	7.55	111.8
7/22/2006	15:00:00	26.2	7.46	110.9
7/22/2006	15:15:00	26.3	7.45	111.0
7/22/2006	15:30:00	26.3	7.71	114.9
7/22/2006	15:45:00	26.3	7.72	115.0
7/22/2006	16:00:00	26.2	7.70	114.5
7/22/2006	16:15:00	26.2	7.67	114.1
7/22/2006	16:30:00	26.2	7.59	112.8
7/22/2006	16:45:00	26.2	7.60	112.9
7/22/2006	17:00:00	26.2	7.58	112.6
7/22/2006	17:15:00	26.2	7.55	112.2
7/22/2006	17:30:00	26.2	7.52	111.7
7/22/2006	17:45:00	26.1	7.52	111.7
7/22/2006	18:00:00	26.0	7.50	111.1
7/22/2006	18:15:00	25.6	7.44	109.5
7/22/2006	18:30:00	25.3	7.40	108.2
7/22/2006	18:45:00	25.2	7.36	107.4
7/22/2006	19:00:00	25.1	7.31	106.5
7/22/2006	19:15:00	25.0	7.28	105.9
7/22/2006	19:30:00	24.9	7.26	105.4
7/22/2006	19:45:00	24.8	7.22	104.5
7/22/2006	20:00:00	24.6	7.21	104.0
7/22/2006	20:15:00	24.5	7.17	103.2
7/22/2006	20:30:00	24.3	6.61	94.7
7/22/2006	20:45:00	24.5	6.60	95.1
7/22/2006	21:00:00	22.6	4.25	58.9
7/22/2006	21:15:00	19.0	3.25*	42.0
7/22/2006	21:30:00	17.8	3.29	41.5
7/22/2006	21:45:00	17.9	2.98	37.7

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/22/2006	22:00:00	18.5	2.83	36.2
7/22/2006	22:15:00	19.3	2.74	35.6
7/22/2006	22:30:00	20.0	2.56	33.8
7/22/2006	22:45:00	20.4	2.40	31.9
7/22/2006	23:00:00	20.3	2.40	31.9
7/22/2006	23:15:00	20.1	2.37	31.3
7/22/2006	23:30:00	20.0	2.35	31.0
7/22/2006	23:45:00	20.2	2.32	30.7
7/23/2006	0:00:00	20.6	2.27	30.3
7/23/2006	0:15:00	21.1	2.25	30.3
7/23/2006	0:30:00	21.6	2.22	30.3
7/23/2006	0:45:00	22.2	2.13	29.4
7/23/2006	1:00:00	22.7	2.01	28.0
7/23/2006	1:15:00	23.0	2.02	28.2
7/23/2006	1:30:00	23.3	2.04	28.7
7/23/2006	1:45:00	23.4	2.12	29.9
7/23/2006	2:00:00	23.5	2.19	30.9
7/23/2006	2:15:00	23.5	2.17	30.7
7/23/2006	2:30:00	23.5	2.13	30.1
7/23/2006	2:45:00	23.5	2.07	29.3
7/23/2006	3:00:00	23.5	1.99	28.1
7/23/2006	3:15:00	23.6	1.92	27.1
7/23/2006	3:30:00	23.6	1.87	26.4
7/23/2006	3:45:00	23.6	1.85	26.2
7/23/2006	4:00:00	23.7	1.84	26.1
7/23/2006	4:15:00	23.7	1.85	26.2
7/23/2006	4:30:00	23.7	1.89	26.8
7/23/2006	4:45:00	23.6	1.96	27.7
7/23/2006	5:00:00	23.6	2.02	28.6
7/23/2006	5:15:00	23.6	2.06	29.2
7/23/2006	5:30:00	23.5	2.13	30.1
7/23/2006	5:45:00	23.4	2.20	31.0
7/23/2006	6:00:00	23.4	2.24	31.6
7/23/2006	6:15:00	23.3	2.31	32.5
7/23/2006	6:30:00	23.2	2.38	33.4
7/23/2006	6:45:00	23.1	2.40	33.6
7/23/2006	7:00:00	23.0	2.44	34.2
7/23/2006	7:15:00	23.0	2.49	34.8
7/23/2006	7:30:00	22.9	2.52	35.2
7/23/2006	7:45:00	22.9	2.56	35.8
7/23/2006	8:00:00	22.8	2.61	36.4
7/23/2006	8:15:00	22.8	2.66	37.0
7/23/2006	8:30:00	22.8	2.70	37.6
7/23/2006	8:45:00	22.8	2.75	38.3
7/23/2006	9:00:00	22.8	2.77	38.6
7/23/2006	9:15:00	22.8	2.81	39.2
7/23/2006	9:30:00	22.9	2.87	40.1

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/23/2006	9:45:00	22.9	2.93	41.0
7/23/2006	10:00:00	23.0	2.97	41.6
7/23/2006	10:15:00	23.1	2.99	42.0
7/23/2006	10:30:00	23.3	3.00	42.1
7/23/2006	10:45:00	23.4	3.00	42.3
7/23/2006	11:00:00	23.5	3.02	42.7
7/23/2006	11:15:00	23.7	3.02	42.8
7/23/2006	11:30:00	23.8	3.04	43.2
7/23/2006	11:45:00	24.0	3.01	43.0
7/23/2006	12:00:00	24.2	2.99	42.7
7/23/2006	12:15:00	24.3	3.00	43.1
7/23/2006	12:30:00	24.5	3.04	43.8
7/23/2006	12:45:00	24.7	3.08	44.5
7/23/2006	13:00:00	24.9	3.11	45.1
7/23/2006	13:15:00	25.0	3.15	45.9
7/23/2006	13:30:00	25.2	3.20	46.7
7/23/2006	13:45:00	25.4	3.19	46.8
7/23/2006	14:00:00	25.6	3.15	46.4
7/23/2006	14:15:00	25.7	3.10	45.7
7/23/2006	14:30:00	25.8	3.06	45.2
7/23/2006	14:45:00	25.9	3.03	44.7
7/23/2006	15:00:00	26.0	3.02	44.7
7/23/2006	15:15:00	26.1	3.01	44.6
7/23/2006	15:30:00	26.2	2.99	44.5
7/23/2006	15:45:00	26.4	2.97	44.2
7/23/2006	16:00:00	26.5	3.00	44.8
7/23/2006	16:15:00	26.5	3.03	45.3
7/23/2006	16:30:00	26.5	3.01	44.9
7/23/2006	16:45:00	26.5	3.03	45.3
7/23/2006	17:00:00	26.5	3.06	45.8
7/23/2006	17:15:00	26.5	3.10	46.3
7/23/2006	17:30:00	26.5	3.14	46.9
7/23/2006	17:45:00	26.4	3.15	47.1
7/23/2006	18:00:00	26.4	3.17	47.3
7/23/2006	18:15:00	26.3	3.19	47.5
7/23/2006	18:30:00	26.2	3.22	47.9
7/23/2006	18:45:00	26.1	3.25	48.3
7/23/2006	19:00:00	26.0	3.31	49.0
7/23/2006	19:15:00	25.9	3.35	49.4
7/23/2006	19:30:00	25.8	3.38	49.8
7/23/2006	19:45:00	25.7	3.38	49.8
7/23/2006	20:00:00	25.6	3.36	49.4
7/23/2006	20:15:00	25.6	3.34	49.1
7/23/2006	20:30:00	25.5	3.37	49.4
7/23/2006	20:45:00	25.4	3.38	49.5
7/23/2006	21:00:00	25.3	3.41	49.9
7/23/2006	21:15:00	25.3	3.44	50.2

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/23/2006	21:30:00	25.2	3.44	50.2
7/23/2006	21:45:00	25.2	3.44	50.2
7/23/2006	22:00:00	25.1	3.44	50.2
7/23/2006	22:15:00	25.0	3.44	50.0
7/23/2006	22:30:00	25.0	3.42	49.6
7/23/2006	22:45:00	24.9	3.41	49.4
7/23/2006	23:00:00	24.8	3.41	49.4
7/23/2006	23:15:00	24.8	3.41	49.4
7/23/2006	23:30:00	24.7	3.43	49.5
7/23/2006	23:45:00	24.6	3.45	49.7
7/24/2006	0:00:00	24.5	3.47	49.9
7/24/2006	0:15:00	24.4	3.48	50.0
7/24/2006	0:30:00	24.4	3.50	50.2
7/24/2006	0:45:00	24.3	3.51	50.4
7/24/2006	1:00:00	24.2	3.52	50.5
7/24/2006	1:15:00	24.2	3.54	50.6
7/24/2006	1:30:00	24.1	3.54	50.6
7/24/2006	1:45:00	24.1	3.54	50.6
7/24/2006	2:00:00	24.1	3.56	50.8
7/24/2006	2:15:00	24.1	3.58	51.2
7/24/2006	2:30:00	24.1	3.60	51.4
7/24/2006	2:45:00	24.1	3.60	51.4
7/24/2006	3:00:00	24.0	3.62	51.6
7/24/2006	3:15:00	24.0	3.63	51.8
7/24/2006	3:30:00	23.9	3.62	51.6
7/24/2006	3:45:00	23.9	3.60	51.2
7/24/2006	4:00:00	23.8	3.61	51.3
7/24/2006	4:15:00	23.7	3.64	51.7
7/24/2006	4:30:00	23.7	3.69	52.2
7/24/2006	4:45:00	23.6	3.72	52.7
7/24/2006	5:00:00	23.5	3.74	52.9
7/24/2006	5:15:00	23.4	3.76	53.0
7/24/2006	5:30:00	23.3	3.79	53.3
7/24/2006	5:45:00	23.2	3.81	53.6
7/24/2006	6:00:00	23.1	3.85	53.9
7/24/2006	6:15:00	23.0	3.88	54.2
7/24/2006	6:30:00	22.8	3.89	54.3
7/24/2006	6:45:00	22.7	3.93	54.7
7/24/2006	7:00:00	22.6	3.97	55.1
7/24/2006	7:15:00	22.5	3.97	55.0
7/24/2006	7:30:00	22.4	4.00	55.3
7/24/2006	7:45:00	22.3	4.03	55.6
7/24/2006	8:00:00	22.2	4.04	55.7
7/24/2006	8:15:00	22.1	4.04	55.6
7/24/2006	8:30:00	22.0	4.05	55.7
7/24/2006	8:45:00	22.0	4.08	56.0
7/24/2006	9:00:00	22.0	4.10	56.3

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/24/2006	9:15:00	22.0	4.13	56.7
7/24/2006	9:30:00	22.0	4.16	57.0
7/24/2006	9:45:00	22.0	4.17	57.3
7/24/2006	10:00:00	22.1	4.19	57.7
7/24/2006	10:15:00	22.2	4.21	58.0
7/24/2006	10:30:00	22.3	4.22	58.2
7/24/2006	10:45:00	22.3	4.24	58.5
7/24/2006	11:00:00	22.4	4.26	58.9
7/24/2006	11:15:00	22.6	4.27	59.3
7/24/2006	11:30:00	22.7	4.28	59.6
7/24/2006	11:45:00	22.9	4.28	59.7
7/24/2006	12:00:00	23.0	4.28	59.9
7/24/2006	12:15:00	23.2	4.27	60.0
7/24/2006	12:30:00	23.4	4.27	60.1
7/24/2006	12:45:00	23.5	4.26	60.2
7/24/2006	13:00:00	23.7	4.26	60.4
7/24/2006	13:15:00	23.9	4.27	60.8
7/24/2006	13:30:00	24.1	4.28	61.2
7/24/2006	13:45:00	24.3	4.27	61.2
7/24/2006	14:00:00	24.5	4.26	61.3
7/24/2006	14:15:00	24.7	4.22	61.0
7/24/2006	14:30:00	24.9	4.19	60.7
7/24/2006	14:45:00	25.0	4.15	60.4
7/24/2006	15:00:00	25.2	4.13	60.2
7/24/2006	15:15:00	25.3	4.11	60.1
7/24/2006	15:30:00	25.4	4.09	59.9
7/24/2006	15:45:00	25.6	4.07	59.7
7/24/2006	16:00:00	25.7	4.04	59.5
7/24/2006	16:15:00	25.8	4.00	59.1
7/24/2006	16:30:00	25.8	3.98	58.7
7/24/2006	16:45:00	25.8	3.96	58.5
7/24/2006	17:00:00	25.8	3.93	58.1
7/24/2006	17:15:00	26.0	3.91	57.9
7/24/2006	17:30:00	26.0	3.86	57.2
7/24/2006	17:45:00	26.0	3.84	56.9
7/24/2006	18:00:00	26.0	3.83	56.7
7/24/2006	18:15:00	25.9	3.85	57.0
7/24/2006	18:30:00	25.8	3.86	57.0
7/24/2006	18:45:00	25.7	3.93	57.9
7/24/2006	19:00:00	25.5	4.02	59.0
7/24/2006	19:15:00	25.2	4.15	60.5
7/24/2006	19:30:00	25.0	4.23	61.5
7/24/2006	19:45:00	24.9	4.24	61.5
7/24/2006	20:00:00	24.8	4.26	61.6
7/24/2006	20:15:00	24.7	4.18	60.3
7/24/2006	20:30:00	24.6	4.05	58.5
7/24/2006	20:45:00	24.5	3.99	57.4

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/24/2006	21:00:00	24.4	4.00	57.4
7/24/2006	21:15:00	24.4	4.04	58.0
7/24/2006	21:30:00	24.3	4.05	58.1
7/24/2006	21:45:00	24.2	4.09	58.6
7/24/2006	22:00:00	24.2	4.06	58.1
7/24/2006	22:15:00	24.2	4.07	58.3
7/24/2006	22:30:00	24.2	4.10	58.7
7/24/2006	22:45:00	24.2	4.02	57.5
7/24/2006	23:00:00	24.2	3.99	57.1
7/24/2006	23:15:00	24.2	3.99	57.1
7/24/2006	23:30:00	24.2	4.02	57.5
7/24/2006	23:45:00	24.1	4.02	57.5
7/25/2006	0:00:00	24.1	3.98	56.9
7/25/2006	0:15:00	24.1	3.97	56.7
7/25/2006	0:30:00	24.0	3.98	56.8
7/25/2006	0:45:00	24.0	3.97	56.7
7/25/2006	1:00:00	23.9	4.00	56.9
7/25/2006	1:15:00	23.9	4.02	57.2
7/25/2006	1:30:00	23.9	4.01	57.1
7/25/2006	1:45:00	23.9	4.01	57.0
7/25/2006	2:00:00	23.9	4.04	57.5
7/25/2006	2:15:00	23.8	4.07	57.9
7/25/2006	2:30:00	23.8	4.09	58.2
7/25/2006	2:45:00	23.8	4.09	58.2
7/25/2006	3:00:00	23.8	4.10	58.4
7/25/2006	3:15:00	23.8	4.12	58.5
7/25/2006	3:30:00	23.7	4.10	58.2
7/25/2006	3:45:00	23.7	4.04	57.3
7/25/2006	4:00:00	23.7	3.97	56.2
7/25/2006	4:15:00	23.6	3.94	55.8
7/25/2006	4:30:00	23.6	3.92	55.5
7/25/2006	4:45:00	23.5	3.91	55.3
7/25/2006	5:00:00	23.5	3.90	55.1
7/25/2006	5:15:00	23.4	3.90	55.0
7/25/2006	5:30:00	23.3	3.90	55.0
7/25/2006	5:45:00	23.3	3.92	55.2
7/25/2006	6:00:00	23.2	3.97	55.8
7/25/2006	6:15:00	23.1	4.03	56.5
7/25/2006	6:30:00	23.0	4.04	56.6
7/25/2006	6:45:00	23.0	4.05	56.7
7/25/2006	7:00:00	22.9	4.07	56.9
7/25/2006	7:15:00	22.8	4.07	56.8
7/25/2006	7:30:00	22.8	4.02	56.0
7/25/2006	7:45:00	22.7	4.02	55.9
7/25/2006	8:00:00	22.7	4.02	55.9
7/25/2006	8:15:00	22.6	4.03	56.1
7/25/2006	8:30:00	22.6	4.05	56.2

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/25/2006	8:45:00	22.6	4.05	56.3
7/25/2006	9:00:00	22.6	4.05	56.3
7/25/2006	9:15:00	22.7	4.05	56.3
7/25/2006	9:30:00	22.7	4.11	57.2
7/25/2006	9:45:00	22.8	4.11	57.3
7/25/2006	10:00:00	22.9	4.16	58.0
7/25/2006	10:15:00	23.0	4.20	58.7
7/25/2006	10:30:00	23.1	4.25	59.5
7/25/2006	10:45:00	23.2	4.30	60.4
7/25/2006	11:00:00	23.3	4.32	60.8
7/25/2006	11:15:00	23.5	4.30	60.8
7/25/2006	11:30:00	23.6	4.33	61.4
7/25/2006	11:45:00	23.8	4.31	61.2
7/25/2006	12:00:00	24.0	4.30	61.3
7/25/2006	12:15:00	24.1	4.28	61.2
7/25/2006	12:30:00	24.2	4.23	60.5
7/25/2006	12:45:00	24.3	4.14	59.4
7/25/2006	13:00:00	24.4	4.07	58.5
7/25/2006	13:15:00	24.6	4.01	57.9
7/25/2006	13:30:00	24.7	3.95	57.1
7/25/2006	13:45:00	24.8	3.86	55.9
7/25/2006	14:00:00	24.9	3.78	54.9
7/25/2006	14:15:00	25.0	3.68	53.4
7/25/2006	14:30:00	25.1	3.58	52.2
7/25/2006	14:45:00	25.3	3.50	51.2
7/25/2006	15:00:00	25.4	3.42	50.2
7/25/2006	15:15:00	25.6	3.35	49.2
7/25/2006	15:30:00	25.7	3.27	48.2
7/25/2006	15:45:00	25.8	3.19	47.2
7/25/2006	16:00:00	25.9	3.13	46.3
7/25/2006	16:15:00	26.0	2.84	42.1
7/25/2006	16:30:00	26.0	2.79	41.3
7/25/2006	16:45:00	25.9	2.76	40.9
7/25/2006	17:00:00	25.9	2.76	40.8
7/25/2006	17:15:00	25.9	2.76	40.8
7/25/2006	17:30:00	25.9	2.76	40.8
7/25/2006	17:45:00	25.9	2.78	41.2
7/25/2006	18:00:00	25.9	2.80	41.4
7/25/2006	18:15:00	25.9	2.81	41.6
7/25/2006	18:30:00	25.9	2.82	41.6
7/25/2006	18:45:00	25.9	2.80	41.5
7/25/2006	19:00:00	25.8	2.76	40.8
7/25/2006	19:15:00	25.8	2.75	40.6
7/25/2006	19:30:00	25.8	2.77	40.9
7/25/2006	19:45:00	25.7	2.78	41.0
7/25/2006	20:00:00	25.7	2.75	40.5
7/25/2006	20:15:00	25.7	2.74	40.3

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/25/2006	20:30:00	25.7	2.75	40.5
7/25/2006	20:45:00	25.6	2.77	40.8
7/25/2006	21:00:00	25.6	2.78	40.9
7/25/2006	21:15:00	25.5	2.80	41.1
7/25/2006	21:30:00	25.4	2.80	41.0
7/25/2006	21:45:00	25.3	2.78	40.6
7/25/2006	22:00:00	25.2	2.77	40.5
7/25/2006	22:15:00	25.1	2.76	40.2
7/25/2006	22:30:00	25.0	2.72	39.6
7/25/2006	22:45:00	24.9	2.59	37.6
7/25/2006	23:00:00	24.8	2.41	34.8
7/25/2006	23:15:00	24.7	2.19	31.6
7/25/2006	23:30:00	24.6	1.98	28.5
7/25/2006	23:45:00	24.5	1.77	25.5
7/26/2006	0:00:00	24.4	1.59	22.9
7/26/2006	0:15:00	24.4	1.44	20.7
7/26/2006	0:30:00	24.3	1.32	18.9
7/26/2006	0:45:00	24.2	1.20	17.2
7/26/2006	1:00:00	24.2	1.06	15.2
7/26/2006	1:15:00	24.2	0.88	12.6
7/26/2006	1:30:00	24.2	0.68	9.8
7/26/2006	1:45:00	24.2	0.51	7.2
7/26/2006	2:00:00	24.1	0.36	5.1
7/26/2006	2:15:00	24.1	0.24	3.4
7/26/2006	2:30:00	24.1	0.17	2.4
7/26/2006	2:45:00	24.0	0.12	1.7
7/26/2006	3:00:00	24.0	0.10	1.4
7/26/2006	3:15:00	23.9	0.09	1.2
7/26/2006	3:30:00	23.9	0.08	1.1
7/26/2006	3:45:00	23.8	0.07	1.1
7/26/2006	4:00:00	23.8	0.07	1.0
7/26/2006	4:15:00	23.8	0.06	0.9
7/26/2006	4:30:00	23.8	0.06	0.8
7/26/2006	4:45:00	23.8	0.05	0.8
7/26/2006	5:00:00	23.7	0.05	0.7
7/26/2006	5:15:00	23.7	0.05	0.7
7/26/2006	5:30:00	23.7	0.04	0.6
7/26/2006	5:45:00	23.6	0.04	0.6
7/26/2006	6:00:00	23.6	0.04	0.6
7/26/2006	6:15:00	23.5	0.04	0.5
7/26/2006	6:30:00	23.4	0.04	0.5
7/26/2006	6:45:00	23.4	0.03	0.5
7/26/2006	7:00:00	23.3	0.03	0.5
7/26/2006	7:15:00	23.2	0.03	0.5
7/26/2006	7:30:00	23.2	0.03	0.5
7/26/2006	7:45:00	23.1	0.03	0.5
7/26/2006	8:00:00	23.1	0.03	0.5

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/26/2006	8:15:00	23.1	0.03	0.5
7/26/2006	8:30:00	23.1	0.03	0.5
7/26/2006	8:45:00	23.1	0.03	0.5
7/26/2006	9:00:00	23.1	0.03	0.5
7/26/2006	9:15:00	23.1	0.03	0.5
7/26/2006	9:30:00	23.2	0.03	0.5
7/26/2006	9:45:00	23.3	0.03	0.5
7/26/2006	10:00:00	23.4	0.03	0.5
7/26/2006	10:15:00	23.5	0.03	0.5
7/26/2006	10:30:00	23.6	0.03	0.5
7/26/2006	10:45:00	23.7	0.03	0.4
7/26/2006	11:00:00	23.8	0.03	0.4
7/26/2006	11:15:00	23.9	0.03	0.4
7/26/2006	11:30:00	24.1	0.03	0.4
7/26/2006	11:45:00	24.2	0.03	0.4
7/26/2006	12:00:00	24.4	0.03	0.4
7/26/2006	12:15:00	24.5	0.03	0.4
7/26/2006	12:30:00	24.7	0.03	0.4
7/26/2006	12:45:00	24.8	0.03	0.4
7/26/2006	13:00:00	25.0	0.03	0.4
7/26/2006	13:15:00	25.2	0.03	0.4
7/26/2006	13:30:00	25.3	0.03	0.4
7/26/2006	13:45:00	25.5	0.03	0.4
7/26/2006	14:00:00	25.7	0.03	0.4
7/26/2006	14:15:00	25.8	0.03	0.4
7/26/2006	14:30:00	26.0	0.03	0.4
7/26/2006	14:45:00	26.2	0.03	0.4
7/26/2006	15:00:00	26.3	0.03	0.4
7/26/2006	15:15:00	26.4	0.03	0.4
7/26/2006	15:30:00	26.4	0.03	0.4
7/26/2006	15:45:00	26.5	0.03	0.4
7/26/2006	16:00:00	26.5	0.03	0.4
7/26/2006	16:15:00	26.4	0.03	0.4
7/26/2006	16:30:00	26.4	0.03	0.4
7/26/2006	16:45:00	26.3	0.03	0.4
7/26/2006	17:00:00	26.2	0.03	0.4
7/26/2006	17:15:00	26.1	0.03	0.4
7/26/2006	17:30:00	26.0	0.03	0.4
7/26/2006	17:45:00	25.8	0.03	0.4
7/26/2006	18:00:00	25.7	0.03	0.4
7/26/2006	18:15:00	25.7	0.03	0.4
7/26/2006	18:30:00	25.6	0.03	0.4
7/26/2006	18:45:00	25.6	0.03	0.4
7/26/2006	19:00:00	25.5	0.03	0.4
7/26/2006	19:15:00	25.5	0.03	0.4
7/26/2006	19:30:00	25.5	0.03	0.4
7/26/2006	19:45:00	25.4	0.03	0.4

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/26/2006	20:00:00	25.4	0.03	0.4
7/26/2006	20:15:00	25.3	0.03	0.4
7/26/2006	20:30:00	25.3	0.03	0.4
7/26/2006	20:45:00	25.2	0.03	0.4
7/26/2006	21:00:00	25.1	0.03	0.4
7/26/2006	21:15:00	25.0	0.03	0.4
7/26/2006	21:30:00	24.8	0.03	0.4
7/26/2006	21:45:00	24.7	0.03	0.4
7/26/2006	22:00:00	24.5	0.03	0.4
7/26/2006	22:15:00	24.4	0.03	0.4
7/26/2006	22:30:00	24.3	0.03	0.4
7/26/2006	22:45:00	24.2	0.03	0.4
7/26/2006	23:00:00	24.1	0.03	0.4
7/26/2006	23:15:00	24.1	0.03	0.4
7/26/2006	23:30:00	24.1	0.03	0.4
7/26/2006	23:45:00	24.0	0.03	0.4
7/27/2006	0:00:00	24.0	0.03	0.4
7/27/2006	0:15:00	24.0	0.03	0.4
7/27/2006	0:30:00	23.9	0.03	0.4
7/27/2006	0:45:00	23.9	0.03	0.4
7/27/2006	1:00:00	23.9	0.03	0.4
7/27/2006	1:15:00	23.8	0.03	0.4
7/27/2006	1:30:00	23.8	0.03	0.4
7/27/2006	1:45:00	23.7	0.03	0.4
7/27/2006	2:00:00	23.6	0.03	0.4
7/27/2006	2:15:00	23.6	0.03	0.4
7/27/2006	2:30:00	23.5	0.03	0.4
7/27/2006	2:45:00	23.5	0.03	0.4
7/27/2006	3:00:00	23.5	0.03	0.4
7/27/2006	3:15:00	23.5	0.03	0.4
7/27/2006	3:30:00	23.4	0.03	0.4
7/27/2006	3:45:00	23.4	0.03	0.4
7/27/2006	4:00:00	23.4	0.03	0.4
7/27/2006	4:15:00	23.3	0.03	0.4
7/27/2006	4:30:00	23.3	0.03	0.4
7/27/2006	4:45:00	23.3	0.03	0.4
7/27/2006	5:00:00	23.3	0.03	0.4
7/27/2006	5:15:00	23.2	0.03	0.4
7/27/2006	5:30:00	23.2	0.03	0.4
7/27/2006	5:45:00	23.1	0.03	0.4
7/27/2006	6:00:00	23.1	0.03	0.4
7/27/2006	6:15:00	23.0	0.03	0.4
7/27/2006	6:30:00	22.9	0.03	0.4
7/27/2006	6:45:00	22.8	0.03	0.4
7/27/2006	7:00:00	22.8	0.03	0.4
7/27/2006	7:15:00	22.7	0.03	0.4
7/27/2006	7:30:00	22.7	0.03	0.4

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/27/2006	7:45:00	22.6	0.03	0.4
7/27/2006	8:00:00	22.6	0.03	0.4
7/27/2006	8:15:00	22.6	0.03	0.4
7/27/2006	8:30:00	22.5	0.03	0.4
7/27/2006	8:45:00	22.6	0.03	0.4
7/27/2006	9:00:00	22.6	0.03	0.4
7/27/2006	9:15:00	22.6	0.03	0.5
7/27/2006	9:30:00	22.6	0.03	0.5
7/27/2006	9:45:00	22.7	0.03	0.5
7/27/2006	10:00:00	22.8	0.03*	0.5
7/27/2006	10:15:00	23.0	7.31	102.3
7/27/2006	10:30:00	23.2	7.38	103.6
7/27/2006	10:45:00	23.3	7.40	104.2
7/27/2006	11:00:00	23.5	7.41	104.7
7/27/2006	11:15:00	23.7	7.18	101.8
7/27/2006	11:30:00	23.9	7.34	104.4
7/27/2006	11:45:00	24.0	7.22	103.1
7/27/2006	12:00:00	24.2	7.21	103.2
7/27/2006	12:15:00	24.4	7.45	107.0
7/27/2006	12:30:00	24.5	7.41	106.8
7/27/2006	12:45:00	24.7	7.24	104.7
7/27/2006	13:00:00	24.9	7.21	104.6
7/27/2006	13:15:00	25.1	7.06	102.9
7/27/2006	13:30:00	25.3	7.40	108.2
7/27/2006	13:45:00	25.5	7.52	110.3
7/27/2006	14:00:00	25.6	7.57	111.4
7/27/2006	14:15:00	25.8	7.59	112.0
7/27/2006	14:30:00	26.0	7.63	113.0
7/27/2006	14:45:00	26.2	7.65	113.7
7/27/2006	15:00:00	26.4	7.67	114.3
7/27/2006	15:15:00	26.5	7.67	114.7
7/27/2006	15:30:00	26.6	7.67	114.9
7/27/2006	15:45:00	26.5	7.59	113.4
7/27/2006	16:00:00	26.4	7.39	110.2
7/27/2006	16:15:00	26.2	7.40	110.0
7/27/2006	16:30:00	26.0	7.31	108.3
7/27/2006	16:45:00	25.8	7.40	109.2
7/27/2006	17:00:00	25.5	7.42	108.9
7/27/2006	17:15:00	25.3	7.38	107.8
7/27/2006	17:30:00	25.1	7.36	107.1
7/27/2006	17:45:00	24.9	7.33	106.4
7/27/2006	18:00:00	24.7	7.31	105.8
7/27/2006	18:15:00	24.5	7.28	104.8
7/27/2006	18:30:00	24.3	7.22	103.7
7/27/2006	18:45:00	24.2	7.15	102.4
7/27/2006	19:00:00	24.1	7.21	103.0
7/27/2006	19:15:00	24.0	7.25	103.4

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/27/2006	19:30:00	23.9	7.25	103.2
7/27/2006	19:45:00	23.8	7.24	103.0
7/27/2006	20:00:00	23.8	7.19	102.1
7/27/2006	20:15:00	23.6	7.22	102.3
7/27/2006	20:30:00	23.5	7.16	101.2
7/27/2006	20:45:00	23.4	7.15	101.0
7/27/2006	21:00:00	23.4	7.15	100.7
7/27/2006	21:15:00	23.3	7.11	100.0
7/27/2006	21:30:00	23.2	7.16	100.5
7/27/2006	21:45:00	23.1	7.15	100.2
7/27/2006	22:00:00	23.1	6.99	97.9
7/27/2006	22:15:00	23.1	6.75	94.6
7/27/2006	22:30:00	23.0	7.06	98.8
7/27/2006	22:45:00	22.9	6.98	97.5
7/27/2006	23:00:00	22.9	6.63	92.5
7/27/2006	23:15:00	22.9	6.30	88.0
7/27/2006	23:30:00	22.9	6.41	89.4
7/27/2006	23:45:00	22.7	6.32	87.9
7/28/2006	0:00:00	22.6	6.36	88.3
7/28/2006	0:15:00	22.5	6.39	88.6
7/28/2006	0:30:00	22.4	6.51	90.2
7/28/2006	0:45:00	22.4	6.54	90.5
7/28/2006	1:00:00	22.3	6.34	87.6
7/28/2006	1:15:00	22.2	6.21	85.6
7/28/2006	1:30:00	22.1	6.10	83.9
7/28/2006	1:45:00	22.1	5.81	79.9
7/28/2006	2:00:00	22.1	5.79	79.6
7/28/2006	2:15:00	22.1	5.99	82.4
7/28/2006	2:30:00	22.1	6.00	82.6
7/28/2006	2:45:00	21.6	5.39	73.3
7/28/2006	3:00:00	20.9	5.15	69.2
7/28/2006	3:15:00	20.3	5.33	70.8
7/28/2006	3:30:00	19.8	5.56	73.1
7/28/2006	3:45:00	19.5	5.76	75.1
7/28/2006	4:00:00	19.2	6.03	78.3
7/28/2006	4:15:00	19.1	6.10	78.9
7/28/2006	4:30:00	19.0	6.28	81.0
7/28/2006	4:45:00	18.9	6.38	82.2
7/28/2006	5:00:00	18.8	6.43	82.8
7/28/2006	5:15:00	18.8	6.46	83.2
7/28/2006	5:30:00	18.8	6.53	84.1
7/28/2006	5:45:00	18.9	6.14	79.1
7/28/2006	6:00:00	19.0	5.75	74.2
7/28/2006	6:15:00	19.1	5.60	72.5
7/28/2006	6:30:00	19.3	5.36	69.8
7/28/2006	6:45:00	19.6	5.29	69.2
7/28/2006	7:00:00	20.0	5.64	74.4

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/28/2006	7:15:00	20.3	6.01	79.7
7/28/2006	7:30:00	20.5	6.77	90.1
7/28/2006	7:45:00	20.5	6.88	91.7
7/28/2006	8:00:00	20.6	6.82	91.0
7/28/2006	8:15:00	20.6	6.12	81.7
7/28/2006	8:30:00	20.6	7.00	93.5
7/28/2006	8:45:00	20.6	7.04	93.9
7/28/2006	9:00:00	20.6	7.10	94.8
7/28/2006	9:15:00	20.5	7.05	94.0
7/28/2006	9:30:00	20.5	7.04	93.9
7/28/2006	9:45:00	20.5	6.89	91.9
7/28/2006	10:00:00	20.6	6.90	92.0
7/28/2006	10:15:00	20.6	7.19	96.0
7/28/2006	10:30:00	20.6	7.20	96.2
7/28/2006	10:45:00	20.7	7.18	96.0
7/28/2006	11:00:00	20.9	7.10	95.2
7/28/2006	11:15:00	20.9	6.96	93.5
7/28/2006	11:30:00	21.1	6.77	91.2
7/28/2006	11:45:00	21.2	6.57	88.7
7/28/2006	12:00:00	21.2	6.44	86.9
7/28/2006	12:15:00	21.2	6.39	86.2
7/28/2006	12:30:00	21.3	6.39	86.5
7/28/2006	12:45:00	21.4	6.45	87.4
7/28/2006	13:00:00	21.5	6.51	88.5
7/28/2006	13:15:00	21.6	6.57	89.5
7/28/2006	13:30:00	21.8	6.63	90.6
7/28/2006	13:45:00	21.9	6.66	91.3
7/28/2006	14:00:00	22.1	6.70	92.2
7/28/2006	14:15:00	22.3	6.74	93.0
7/28/2006	14:30:00	22.4	6.76	93.5
7/28/2006	14:45:00	22.6	6.78	94.2
7/28/2006	15:00:00	22.8	6.75	94.1
7/28/2006	15:15:00	23.0	6.70	93.8
7/28/2006	15:30:00	23.2	6.74	94.7
7/28/2006	15:45:00	23.4	6.70	94.5
7/28/2006	16:00:00	23.5	6.60	93.3
7/28/2006	16:15:00	23.7	6.47	91.7
7/28/2006	16:30:00	23.7	6.45	91.6
7/28/2006	16:45:00	23.7	6.33	89.7
7/28/2006	17:00:00	23.6	6.32	89.5
7/28/2006	17:15:00	23.6	6.29	88.9
7/28/2006	17:30:00	23.5	6.31	89.0
7/28/2006	17:45:00	23.3	6.32	89.0
7/28/2006	18:00:00	23.3	6.32	88.9
7/28/2006	18:15:00	23.1	6.35	89.1
7/28/2006	18:30:00	23.0	6.36	89.1
7/28/2006	18:45:00	22.9	6.42	89.6

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/28/2006	19:00:00	22.8	6.35	88.5
7/28/2006	19:15:00	22.7	6.14	85.3
7/28/2006	19:30:00	22.6	6.07	84.3
7/28/2006	19:45:00	22.5	6.05	83.8
7/28/2006	20:00:00	22.4	6.01	83.2
7/28/2006	20:15:00	22.4	5.97	82.6
7/28/2006	20:30:00	22.3	5.94	82.1
7/28/2006	20:45:00	22.3	5.85	80.7
7/28/2006	21:00:00	22.3	5.71	78.8
7/28/2006	21:15:00	22.2	5.63	77.6
7/28/2006	21:30:00	22.3	5.57	76.9
7/28/2006	21:45:00	22.3	5.54	76.4
7/28/2006	22:00:00	22.3	5.46	75.3
7/28/2006	22:15:00	22.3	5.37	74.2
7/28/2006	22:30:00	22.3	5.33	73.5
7/28/2006	22:45:00	22.3	5.28	73.0
7/28/2006	23:00:00	22.3	5.24	72.3
7/28/2006	23:15:00	22.3	5.22	72.1
7/28/2006	23:30:00	22.3	5.21	71.9
7/28/2006	23:45:00	22.3	5.20	71.8
7/29/2006	0:00:00	22.3	5.20	71.8
7/29/2006	0:15:00	22.3	5.21	71.9
7/29/2006	0:30:00	22.3	5.21	71.9
7/29/2006	0:45:00	22.3	5.24	72.3
7/29/2006	1:00:00	22.3	5.26	72.6
7/29/2006	1:15:00	22.2	5.29	73.0
7/29/2006	1:30:00	22.2	5.34	73.6
7/29/2006	1:45:00	22.2	5.43	74.8
7/29/2006	2:00:00	22.2	5.69	78.4
7/29/2006	2:15:00	22.2	6.18	85.1
7/29/2006	2:30:00	22.2	6.66	91.7
7/29/2006	2:45:00	22.2	6.83	94.1
7/29/2006	3:00:00	22.2	6.94	95.6
7/29/2006	3:15:00	22.2	6.99	96.3
7/29/2006	3:30:00	22.2	7.10	97.8
7/29/2006	3:45:00	22.2	7.09	97.7
7/29/2006	4:00:00	22.2	7.14	98.4
7/29/2006	4:15:00	22.2	7.18	99.0
7/29/2006	4:30:00	22.3	7.14	98.5
7/29/2006	4:45:00	22.3	7.05	97.3
7/29/2006	5:00:00	22.3	6.76	93.3
7/29/2006	5:15:00	22.3	6.50	89.8
7/29/2006	5:30:00	22.3	6.31	87.2
7/29/2006	5:45:00	22.3	6.17	85.3
7/29/2006	6:00:00	22.3	6.18	85.3
7/29/2006	6:15:00	22.3	6.19	85.5
7/29/2006	6:30:00	22.3	6.45	89.1

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/29/2006	6:45:00	22.3	6.66	91.9
7/29/2006	7:00:00	22.3	6.59	90.9
7/29/2006	7:15:00	22.3	6.62	91.3
7/29/2006	7:30:00	22.3	6.65	91.8
7/29/2006	7:45:00	22.3	6.57	90.7
7/29/2006	8:00:00	22.3	6.47	89.3
7/29/2006	8:15:00	22.3	6.51	89.8
7/29/2006	8:30:00	22.3	6.52	90.0
7/29/2006	8:45:00	22.3	6.27	86.5
7/29/2006	9:00:00	22.4	6.03	83.4
7/29/2006	9:15:00	22.4	5.95	82.3
7/29/2006	9:30:00	22.4	5.98	82.7
7/29/2006	9:45:00	22.5	5.95	82.4
7/29/2006	10:00:00	22.5	6.02	83.4
7/29/2006	10:15:00	22.5	6.38	88.4
7/29/2006	10:30:00	22.6	6.51	90.4
7/29/2006	10:45:00	22.6	6.64	92.3
7/29/2006	11:00:00	22.7	6.71	93.4
7/29/2006	11:15:00	22.8	6.81	95.0
7/29/2006	11:30:00	22.9	6.79	94.9
7/29/2006	11:45:00	23.1	6.75	94.6
7/29/2006	12:00:00	23.2	6.69	94.0
7/29/2006	12:15:00	23.4	6.69	94.3
7/29/2006	12:30:00	23.5	6.65	94.0
7/29/2006	12:45:00	23.5	6.56	92.7
7/29/2006	13:00:00	23.5	6.48	91.7
7/29/2006	13:15:00	23.5	6.48	91.6
7/29/2006	13:30:00	23.7	6.55	92.8
7/29/2006	13:45:00	23.7	6.53	92.6
7/29/2006	14:00:00	23.6	6.56	93.0
7/29/2006	14:15:00	23.7	6.52	92.4
7/29/2006	14:30:00	23.6	6.55	92.7
7/29/2006	14:45:00	23.6	6.55	92.6
7/29/2006	15:00:00	23.5	6.59	93.0
7/29/2006	15:15:00	23.3	6.46	91.0
7/29/2006	15:30:00	23.3	6.37	89.6
7/29/2006	15:45:00	23.2	6.31	88.6
7/29/2006	16:00:00	23.2	6.36	89.3
7/29/2006	16:15:00	23.2	6.30	88.5
7/29/2006	16:30:00	23.3	6.40	90.0
7/29/2006	16:45:00	23.3	6.47	91.1
7/29/2006	17:00:00	23.3	6.58	92.6
7/29/2006	17:15:00	23.3	6.53	91.8
7/29/2006	17:30:00	23.3	6.53	91.9
7/29/2006	17:45:00	23.4	6.51	91.7
7/29/2006	18:00:00	23.4	6.59	92.9
7/29/2006	18:15:00	23.4	6.59	93.0

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/29/2006	18:30:00	23.4	6.55	92.4
7/29/2006	18:45:00	23.4	6.40	90.1
7/29/2006	19:00:00	23.3	6.26	88.2
7/29/2006	19:15:00	23.2	6.41	90.1
7/29/2006	19:30:00	23.2	6.40	89.9
7/29/2006	19:45:00	23.1	6.22	87.2
7/29/2006	20:00:00	23.0	6.06	84.9
7/29/2006	20:15:00	22.9	5.89	82.2
7/29/2006	20:30:00	22.8	5.71	79.5
7/29/2006	20:45:00	22.7	5.57	77.5
7/29/2006	21:00:00	22.6	5.52	76.5
7/29/2006	21:15:00	22.5	5.46	75.6
7/29/2006	21:30:00	22.4	5.43	75.0
7/29/2006	21:45:00	22.3	5.39	74.4
7/29/2006	22:00:00	22.2	5.37	74.1
7/29/2006	22:15:00	22.2	5.32	73.2
7/29/2006	22:30:00	22.1	5.25	72.3
7/29/2006	22:45:00	22.1	5.23	71.9
7/29/2006	23:00:00	22.1	5.22	71.7
7/29/2006	23:15:00	22.0	5.26	72.3
7/29/2006	23:30:00	22.0	5.29	72.7
7/29/2006	23:45:00	22.0	5.35	73.4
7/30/2006	0:00:00	22.0	5.40	74.1
7/30/2006	0:15:00	22.0	5.42	74.5
7/30/2006	0:30:00	22.0	5.43	74.6
7/30/2006	0:45:00	22.0	5.46	75.0
7/30/2006	1:00:00	22.0	5.59	76.8
7/30/2006	1:15:00	22.0	6.07	83.4
7/30/2006	1:30:00	22.1	6.21	85.4
7/30/2006	1:45:00	22.1	6.22	85.4
7/30/2006	2:00:00	22.1	6.15	84.5
7/30/2006	2:15:00	22.1	5.97	82.0
7/30/2006	2:30:00	22.1	5.81	79.8
7/30/2006	2:45:00	22.1	5.68	78.0
7/30/2006	3:00:00	22.0	5.62	77.2
7/30/2006	3:15:00	22.0	5.56	76.3
7/30/2006	3:30:00	22.0	5.48	75.2
7/30/2006	3:45:00	22.0	5.43	74.5
7/30/2006	4:00:00	22.0	5.38	73.9
7/30/2006	4:15:00	22.0	5.30	72.8
7/30/2006	4:30:00	22.0	5.30	72.8
7/30/2006	4:45:00	22.0	5.33	73.1
7/30/2006	5:00:00	22.0	5.41	74.3
7/30/2006	5:15:00	21.9	5.40	74.0
7/30/2006	5:30:00	21.9	5.34	73.1
7/30/2006	5:45:00	21.9	5.27	72.2
7/30/2006	6:00:00	21.8	5.24	71.7

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/30/2006	6:15:00	21.8	5.23	71.5
7/30/2006	6:30:00	21.8	5.22	71.3
7/30/2006	6:45:00	21.8	5.17	70.6
7/30/2006	7:00:00	21.7	5.08	69.4
7/30/2006	7:15:00	21.7	5.03	68.7
7/30/2006	7:30:00	21.7	5.01	68.3
7/30/2006	7:45:00	21.7	4.99	68.1
7/30/2006	8:00:00	21.7	5.00	68.2
7/30/2006	8:15:00	21.7	5.05	69.0
7/30/2006	8:30:00	21.9	5.09	69.6
7/30/2006	8:45:00	22.0	5.12	70.1
7/30/2006	9:00:00	22.0	5.17	70.9
7/30/2006	9:15:00	22.1	5.20	71.6
7/30/2006	9:30:00	22.3	5.24	72.3
7/30/2006	9:45:00	22.4	5.27	72.9
7/30/2006	10:00:00	22.5	5.29	73.4
7/30/2006	10:15:00	22.7	5.25	73.0
7/30/2006	10:30:00	22.8	5.19	72.4
7/30/2006	10:45:00	23.0	5.08	71.1
7/30/2006	11:00:00	23.1	4.95	69.4
7/30/2006	11:15:00	23.3	4.80	67.6
7/30/2006	11:30:00	23.6	4.67	66.1
7/30/2006	11:45:00	23.8	4.59	65.2
7/30/2006	12:00:00	24.0	4.54	64.7
7/30/2006	12:15:00	24.2	4.50	64.4
7/30/2006	12:30:00	24.4	4.48	64.4
7/30/2006	12:45:00	24.6	4.52	65.1
7/30/2006	13:00:00	24.7	4.75	68.6
7/30/2006	13:15:00	24.9	4.99	72.4
7/30/2006	13:30:00	25.1	5.10	74.3
7/30/2006	13:45:00	25.3	5.20	76.1
7/30/2006	14:00:00	25.5	5.33	78.2
7/30/2006	14:15:00	25.6	5.68	83.5
7/30/2006	14:30:00	25.8	6.04	89.1
7/30/2006	14:45:00	25.9	6.29	93.0
7/30/2006	15:00:00	26.0	6.33	93.8
7/30/2006	15:15:00	26.1	6.48	96.2
7/30/2006	15:30:00	26.3	6.47	96.3
7/30/2006	15:45:00	26.3	6.43	95.8
7/30/2006	16:00:00	26.3	6.43	95.8
7/30/2006	16:15:00	26.4	6.40	95.5
7/30/2006	16:30:00	26.5	6.42	95.9
7/30/2006	16:45:00	26.5	6.38	95.3
7/30/2006	17:00:00	26.4	6.25	93.3
7/30/2006	17:15:00	26.4	6.13	91.5
7/30/2006	17:30:00	26.4	6.11	91.2
7/30/2006	17:45:00	26.3	6.09	90.7

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/30/2006	18:00:00	26.2	6.09	90.6
7/30/2006	18:15:00	26.1	6.02	89.3
7/30/2006	18:30:00	25.9	5.86	86.7
7/30/2006	18:45:00	25.7	5.81	85.6
7/30/2006	19:00:00	25.5	5.71	83.9
7/30/2006	19:15:00	25.4	5.58	81.7
7/30/2006	19:30:00	25.2	5.47	79.9
7/30/2006	19:45:00	25.1	5.39	78.4
7/30/2006	20:00:00	25.0	5.23	75.9
7/30/2006	20:15:00	24.9	5.07	73.5
7/30/2006	20:30:00	24.8	4.94	71.5
7/30/2006	20:45:00	24.6	4.83	69.7
7/30/2006	21:00:00	24.5	4.75	68.5
7/30/2006	21:15:00	24.5	4.68	67.4
7/30/2006	21:30:00	24.4	4.61	66.3
7/30/2006	21:45:00	24.3	4.54	65.2
7/30/2006	22:00:00	24.3	4.50	64.5
7/30/2006	22:15:00	24.2	4.47	64.0
7/30/2006	22:30:00	24.1	4.46	63.7
7/30/2006	22:45:00	24.0	4.45	63.5
7/30/2006	23:00:00	23.9	4.43	63.1
7/30/2006	23:15:00	23.9	4.39	62.5
7/30/2006	23:30:00	23.8	4.37	62.1
7/30/2006	23:45:00	23.8	4.34	61.6
7/31/2006	0:00:00	23.7	4.32	61.3
7/31/2006	0:15:00	23.6	4.31	61.1
7/31/2006	0:30:00	23.6	4.32	61.1
7/31/2006	0:45:00	23.5	4.33	61.3
7/31/2006	1:00:00	23.5	4.33	61.2
7/31/2006	1:15:00	23.4	4.33	61.1
7/31/2006	1:30:00	23.4	4.34	61.2
7/31/2006	1:45:00	23.3	4.40	61.9
7/31/2006	2:00:00	23.3	4.53	63.8
7/31/2006	2:15:00	23.3	4.75	66.9
7/31/2006	2:30:00	23.3	4.71	66.4
7/31/2006	2:45:00	23.4	4.72	66.5
7/31/2006	3:00:00	23.4	4.89	68.9
7/31/2006	3:15:00	23.3	4.91	69.2
7/31/2006	3:30:00	23.3	4.89	68.9
7/31/2006	3:45:00	23.3	4.66	65.6
7/31/2006	4:00:00	23.2	4.47	62.9
7/31/2006	4:15:00	23.2	4.56	64.0
7/31/2006	4:30:00	23.1	4.60	64.5
7/31/2006	4:45:00	23.0	4.49	62.7
7/31/2006	5:00:00	22.7	4.27	59.3
7/31/2006	5:15:00	22.3	3.95	54.5
7/31/2006	5:30:00	22.0	3.58	49.2

Table 5.1. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/31/2006	5:45:00	21.7	3.26	44.5
7/31/2006	6:00:00	21.5	3.06	41.7
7/31/2006	6:15:00	21.5	2.97	40.3
7/31/2006	6:30:00	21.5	3.06	41.6
7/31/2006	6:45:00	21.5	3.62	49.2
7/31/2006	7:00:00	21.6	4.03	54.9
7/31/2006	7:15:00	21.7	4.15	56.6
7/31/2006	7:30:00	21.7	4.11	56.1
7/31/2006	7:45:00	21.8	4.02	54.9
7/31/2006	8:00:00	21.8	4.00	54.7
7/31/2006	8:15:00	21.8	4.06	55.5
7/31/2006	8:30:00	21.8	4.10	56.1
7/31/2006	8:45:00	21.9	4.08	55.8
7/31/2006	9:00:00	21.9	4.06	55.6
7/31/2006	9:15:00	22.0	4.03	55.3
7/31/2006	9:30:00	22.1	4.09	56.2
7/31/2006	9:45:00	22.1	4.48	61.6
7/31/2006	10:00:00	22.2	5.12	70.6
7/31/2006	10:15:00	22.4	5.08	70.2
7/31/2006	10:30:00	22.5	4.91	68.0
7/31/2006	10:45:00	22.6	4.75	66.0
7/31/2006	11:00:00	22.7	4.68	65.1

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:		Troll 9000 LTS	
Report generated:		7/31/2007	11:19:53
Report from file:	...\SN45475 2006-07-17 130000 Site5-7-17-06.bin		
Win-Situ Version			4.55.3.0
Serial number:			45475
Firmware Version			1.58
Unit name:			Athena
Barometric Pressure:			636.104
Test defined on:		7/17/2006	1:48:14
Test scheduled for:		7/17/2006	13:00:00
Test started on:		7/17/2006	13:00:00
Test stopped on:		7/31/2006	15:25:58
Data gathered using linear testing			
Time between data points		900	seconds
Number of data samples:		943	

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
7/21/2006	16:45:00	28.7	6.06	94.4
7/21/2006	17:00:00	28.3	5.74	88.7
7/21/2006	17:15:00	28.0	5.42	83.4
7/21/2006	17:30:00	27.9	5.24	80.4
7/21/2006	17:45:00	27.8	5.13	78.7
7/21/2006	18:00:00	27.7	5.06	77.5
7/21/2006	18:15:00	27.4	4.98	75.7
7/21/2006	18:30:00	27.1	4.87	73.8
7/21/2006	18:45:00	26.9	4.79	72.1
7/21/2006	19:00:00	26.7	4.71	70.7
7/21/2006	19:15:00	26.4	4.71	70.4
7/21/2006	19:30:00	26.2	4.79	71.3
7/21/2006	19:45:00	26.0	4.90	72.6
7/21/2006	20:00:00	25.9	4.97	73.5
7/21/2006	20:15:00	25.7	5.02	74.0
7/21/2006	20:30:00	25.5	5.06	74.4
7/21/2006	20:45:00	25.3	5.08	74.3
7/21/2006	21:00:00	25.1	5.11	74.5
7/21/2006	21:15:00	25.0	5.18	75.3
7/21/2006	21:30:00	24.9	5.29	76.8
7/21/2006	21:45:00	24.7	5.36	77.5
7/21/2006	22:00:00	24.6	5.38	77.6
7/21/2006	22:15:00	24.4	5.39	77.6
7/21/2006	22:30:00	24.3	5.41	77.7
7/21/2006	22:45:00	24.2	5.41	77.6
7/21/2006	23:00:00	24.1	5.37	76.8
7/21/2006	23:15:00	24.0	5.29	75.6
7/21/2006	23:30:00	24.0	5.19	74.1

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/21/2006	23:45:00	23.9	5.10	72.7
7/22/2006	0:00:00	23.8	5.03	71.6
7/22/2006	0:15:00	23.7	4.99	70.8
7/22/2006	0:30:00	23.6	4.97	70.4
7/22/2006	0:45:00	23.4	4.96	69.9
7/22/2006	1:00:00	23.1	5.00	70.1
7/22/2006	1:15:00	23.0	5.06	70.8
7/22/2006	1:30:00	22.8	5.12	71.5
7/22/2006	1:45:00	22.7	5.16	71.9
7/22/2006	2:00:00	22.7	5.17	71.9
7/22/2006	2:15:00	22.7	5.15	71.7
7/22/2006	2:30:00	22.6	5.33	74.1
7/22/2006	2:45:00	22.6	5.47	75.9
7/22/2006	3:00:00	22.6	5.52	76.7
7/22/2006	3:15:00	22.5	5.53	76.7
7/22/2006	3:30:00	22.5	5.51	76.4
7/22/2006	3:45:00	22.5	5.48	75.9
7/22/2006	4:00:00	22.4	5.44	75.4
7/22/2006	4:15:00	22.4	5.39	74.6
7/22/2006	4:30:00	22.3	5.31	73.4
7/22/2006	4:45:00	22.3	5.22	72.0
7/22/2006	5:00:00	22.2	5.13	70.7
7/22/2006	5:15:00	22.1	5.04	69.3
7/22/2006	5:30:00	22.0	5.00	68.7
7/22/2006	5:45:00	22.0	5.14	70.6
7/22/2006	6:00:00	22.0	5.57	76.5
7/22/2006	6:15:00	22.0	5.87	80.7
7/22/2006	6:30:00	22.0	5.88	80.7
7/22/2006	6:45:00	22.0	5.86	80.5
7/22/2006	7:00:00	22.0	5.84	80.2
7/22/2006	7:15:00	22.0	5.80	79.8
7/22/2006	7:30:00	22.1	5.75	79.1
7/22/2006	7:45:00	22.1	5.71	78.6
7/22/2006	8:00:00	22.3	5.64	77.9
7/22/2006	8:15:00	22.4	5.56	76.9
7/22/2006	8:30:00	22.5	5.47	75.9
7/22/2006	8:45:00	22.7	5.37	74.8
7/22/2006	9:00:00	22.9	5.27	73.7
7/22/2006	9:15:00	23.1	5.18	72.7
7/22/2006	9:30:00	23.3	5.10	71.8
7/22/2006	9:45:00	23.5	5.15	72.8
7/22/2006	10:00:00	23.7	5.35	75.9
7/22/2006	10:15:00	24.0	5.61	80.1
7/22/2006	10:30:00	24.2	5.70	81.7
7/22/2006	10:45:00	24.5	5.64	81.3
7/22/2006	11:00:00	24.8	5.56	80.6

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/22/2006	11:15:00	25.0	5.45	79.3
7/22/2006	11:30:00	25.3	5.31	77.6
7/22/2006	11:45:00	25.5	5.24	77.0
7/22/2006	12:00:00	25.9	5.37	79.4
7/22/2006	12:15:00	26.2	5.75	85.5
7/22/2006	12:30:00	26.4	5.72	85.4
7/22/2006	12:45:00	26.8	5.45	81.9
7/22/2006	13:00:00	27.0	5.13	77.4
7/22/2006	13:15:00	27.3	4.81	73.0
7/22/2006	13:30:00	27.5	4.65	70.9
7/22/2006	13:45:00	27.7	4.71	72.0
7/22/2006	14:00:00	27.9	4.92	75.5
7/22/2006	14:15:00	28.1	5.01	77.2
7/22/2006	14:30:00	28.3	4.95	76.6
7/22/2006	14:45:00	28.5	4.74	73.5
7/22/2006	15:00:00	28.6	4.47	69.5
7/22/2006	15:15:00	28.8	4.20	65.5
7/22/2006	15:30:00	28.9	4.02	62.7
7/22/2006	15:45:00	28.8	3.99	62.2
7/22/2006	16:00:00	28.7	4.11	64.0
7/22/2006	16:15:00	28.6	4.20	65.3
7/22/2006	16:30:00	28.6	4.26	66.2
7/22/2006	16:45:00	28.6	4.29	66.7
7/22/2006	17:00:00	28.5	4.27	66.3
7/22/2006	17:15:00	28.4	4.40	68.2
7/22/2006	17:30:00	28.3	4.81	74.4
7/22/2006	17:45:00	28.2	6.33	97.6
7/22/2006	18:00:00	28.1	5.96	91.7
7/22/2006	18:15:00	27.9	5.59	85.8
7/22/2006	18:30:00	27.1	5.30	80.2
7/22/2006	18:45:00	26.5	5.11	76.4
7/22/2006	19:00:00	26.5	5.01	74.8
7/22/2006	19:15:00	26.4	5.16	77.1
7/22/2006	19:30:00	26.0	6.41	95.1
7/22/2006	19:45:00	26.0	6.44	95.4
7/22/2006	20:00:00	26.0	6.36	94.1
7/22/2006	20:15:00	25.8	6.15	90.9
7/22/2006	20:30:00	25.7	5.75	84.6
7/22/2006	20:45:00	25.6	5.34	78.4
7/22/2006	21:00:00	25.5	4.97	72.9
7/22/2006	21:15:00	25.3	4.71	68.9
7/22/2006	21:30:00	25.1	4.52	66.0
7/22/2006	21:45:00	24.9	4.43	64.3
7/22/2006	22:00:00	24.6	4.40	63.6
7/22/2006	22:15:00	24.5	4.39	63.2
7/22/2006	22:30:00	24.3	4.40	63.1

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/22/2006	22:45:00	23.4	4.31	60.9
7/22/2006	23:00:00	22.8	4.20	58.6
7/22/2006	23:15:00	22.8	4.14	57.7
7/22/2006	23:30:00	23.0	5.09	71.3
7/22/2006	23:45:00	23.3	6.16	86.6
7/23/2006	0:00:00	23.5	5.78	81.7
7/23/2006	0:15:00	23.5	5.21	73.7
7/23/2006	0:30:00	23.6	4.53	64.2
7/23/2006	0:45:00	23.7	5.86	83.2
7/23/2006	1:00:00	23.7	4.84	68.7
7/23/2006	1:15:00	23.7	3.66	52.0
7/23/2006	1:30:00	23.7	2.78	39.4
7/23/2006	1:45:00	23.5	2.56	36.3
7/23/2006	2:00:00	23.0	5.02	70.3
7/23/2006	2:15:00	22.2	4.69	64.8
7/23/2006	2:30:00	21.4	4.35	59.1
7/23/2006	2:45:00	20.7	4.02	53.8
7/23/2006	3:00:00	20.1	3.56	47.1*
7/23/2006	3:15:00	19.8	3.31	43.5
7/23/2006	3:30:00	19.6	3.13	41.0
7/23/2006	3:45:00	19.6	2.89	37.9
7/23/2006	4:00:00	19.7	2.72	35.6
7/23/2006	4:15:00	19.8	2.53	33.2
7/23/2006	4:30:00	20.0	2.29	30.3
7/23/2006	4:45:00	20.0	2.11	27.8
7/23/2006	5:00:00	20.0	2.18	28.8
7/23/2006	5:15:00	20.0	2.52	33.2
7/23/2006	5:30:00	19.9	2.93	38.6
7/23/2006	5:45:00	19.9	2.92	38.5
7/23/2006	6:00:00	20.0	2.90	38.3
7/23/2006	6:15:00	20.1	2.79	36.9
7/23/2006	6:30:00	20.3	2.63	35.0
7/23/2006	6:45:00	20.5	2.49	33.3
7/23/2006	7:00:00	20.8	2.33	31.3
7/23/2006	7:15:00	21.0	2.17	29.2
7/23/2006	7:30:00	21.3	2.04	27.7
7/23/2006	7:45:00	21.6	2.13	29.0
7/23/2006	8:00:00	21.8	2.20	30.1
7/23/2006	8:15:00	22.1	2.26	31.0
7/23/2006	8:30:00	22.3	2.36	32.6
7/23/2006	8:45:00	22.5	2.44	33.9
7/23/2006	9:00:00	22.7	2.49	34.7*
7/23/2006	9:15:00	22.9	5.73	80.1
7/23/2006	9:30:00	23.2	6.23	87.5
7/23/2006	9:45:00	23.5	6.27	88.5
7/23/2006	10:00:00	23.7	6.20	88.1

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/23/2006	10:15:00	24.0	6.34	90.5
7/23/2006	10:30:00	24.3	6.33	90.9
7/23/2006	10:45:00	24.6	6.37	92.0
7/23/2006	11:00:00	24.9	6.36	92.5
7/23/2006	11:15:00	25.2	6.38	93.2
7/23/2006	11:30:00	25.5	6.30	92.4
7/23/2006	11:45:00	25.8	6.29	92.9
7/23/2006	12:00:00	26.1	6.23	92.5
7/23/2006	12:15:00	26.4	5.77	86.2
7/23/2006	12:30:00	26.7	5.20	78.1
7/23/2006	12:45:00	26.9	4.80	72.4
7/23/2006	13:00:00	27.2	5.52	83.7
7/23/2006	13:15:00	27.5	6.21	94.7
7/23/2006	13:30:00	27.8	6.36	97.4
7/23/2006	13:45:00	28.0	6.35	97.8
7/23/2006	14:00:00	28.3	6.34	98.1
7/23/2006	14:15:00	28.4	6.24	96.8
7/23/2006	14:30:00	28.5	5.86	90.9
7/23/2006	14:45:00	28.5	5.44	84.3
7/23/2006	15:00:00	28.4	5.26	81.5
7/23/2006	15:15:00	28.4	5.10	79.0
7/23/2006	15:30:00	28.5	6.22	96.7
7/23/2006	15:45:00	28.6	6.30	97.8
7/23/2006	16:00:00	28.7	6.26	97.4
7/23/2006	16:15:00	28.7	5.95	92.8
7/23/2006	16:30:00	28.7	5.61	87.5
7/23/2006	16:45:00	28.7	5.17	80.5
7/23/2006	17:00:00	28.7	4.81	75.0
7/23/2006	17:15:00	28.7	4.62	72.0
7/23/2006	17:30:00	28.7	4.46	69.4
7/23/2006	17:45:00	28.7	4.36	67.9
7/23/2006	18:00:00	28.5	4.28	66.4
7/23/2006	18:15:00	28.3	4.12	63.8
7/23/2006	18:30:00	28.2	3.97	61.2
7/23/2006	18:45:00	28.0	3.83	58.9
7/23/2006	19:00:00	27.9	4.06	62.3
7/23/2006	19:15:00	27.7	6.16	94.3
7/23/2006	19:30:00	27.5	6.16	94.0
7/23/2006	19:45:00	27.4	5.90	89.7
7/23/2006	20:00:00	27.2	5.85	88.7
7/23/2006	20:15:00	27.0	5.85	88.4
7/23/2006	20:30:00	26.8	5.97	89.8
7/23/2006	20:45:00	26.7	6.20	93.0
7/23/2006	21:00:00	26.5	6.24	93.4
7/23/2006	21:15:00	26.3	6.19	92.3
7/23/2006	21:30:00	26.2	6.24	92.8

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/23/2006	21:45:00	26.0	6.26	92.8
7/23/2006	22:00:00	25.9	6.24	92.3
7/23/2006	22:15:00	25.8	6.17	91.0
7/23/2006	22:30:00	25.6	5.88	86.6
7/23/2006	22:45:00	25.5	5.67	83.3
7/23/2006	23:00:00	25.3	6.30	92.2
7/23/2006	23:15:00	25.2	6.28	91.7
7/23/2006	23:30:00	25.1	6.29	91.7
7/23/2006	23:45:00	24.9	6.29	91.3
7/24/2006	0:00:00	24.8	6.22	90.1
7/24/2006	0:15:00	24.7	6.35	91.8
7/24/2006	0:30:00	24.6	6.33	91.4
7/24/2006	0:45:00	24.5	6.25	90.0
7/24/2006	1:00:00	24.4	6.18	88.8
7/24/2006	1:15:00	24.3	6.23	89.4
7/24/2006	1:30:00	24.2	6.38	91.4
7/24/2006	1:45:00	24.1	6.29	90.0
7/24/2006	2:00:00	24.0	6.14	87.6
7/24/2006	2:15:00	23.9	5.81	82.8
7/24/2006	2:30:00	23.8	5.49	78.0
7/24/2006	2:45:00	23.8	5.18	73.6
7/24/2006	3:00:00	23.7	5.00	70.9
7/24/2006	3:15:00	23.6	4.87	69.0
7/24/2006	3:30:00	23.5	4.80	67.9
7/24/2006	3:45:00	23.5	4.80	67.8
7/24/2006	4:00:00	23.4	6.25	88.2
7/24/2006	4:15:00	23.3	6.52	91.8
7/24/2006	4:30:00	23.2	6.53	91.9
7/24/2006	4:45:00	23.2	6.54	91.9
7/24/2006	5:00:00	23.1	6.55	91.9
7/24/2006	5:15:00	23.0	6.55	91.7
7/24/2006	5:30:00	23.0	6.54	91.5
7/24/2006	5:45:00	22.8	6.58	91.9
7/24/2006	6:00:00	22.7	6.59	91.8
7/24/2006	6:15:00	22.7	6.50	90.4
7/24/2006	6:30:00	22.6	6.44	89.6
7/24/2006	6:45:00	22.6	6.54	90.8
7/24/2006	7:00:00	22.5	6.57	91.2
7/24/2006	7:15:00	22.5	6.64	92.1
7/24/2006	7:30:00	22.5	6.66	92.3
7/24/2006	7:45:00	22.6	6.67	92.6
7/24/2006	8:00:00	22.6	6.68	92.9
7/24/2006	8:15:00	22.6	6.69	92.9
7/24/2006	8:30:00	22.6	6.70	93.1
7/24/2006	8:45:00	22.7	6.70	93.2
7/24/2006	9:00:00	22.8	6.57	91.6

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/24/2006	9:15:00	23.0	6.32	88.5
7/24/2006	9:30:00	23.3	6.60	92.9
7/24/2006	9:45:00	23.5	6.69	94.7
7/24/2006	10:00:00	23.8	6.54	93.0
7/24/2006	10:15:00	24.0	6.70	95.7
7/24/2006	10:30:00	24.2	6.58	94.4
7/24/2006	10:45:00	24.5	6.23	89.7
7/24/2006	11:00:00	24.7	5.85	84.7
7/24/2006	11:15:00	25.0	6.63	96.4
7/24/2006	11:30:00	25.2	6.44	94.1
7/24/2006	11:45:00	25.5	6.56	96.3
7/24/2006	12:00:00	25.7	6.64	97.9
7/24/2006	12:15:00	26.0	6.33	93.8
7/24/2006	12:30:00	26.2	5.88	87.5
7/24/2006	12:45:00	26.5	5.52	82.5
7/24/2006	13:00:00	26.7	6.60	99.1
7/24/2006	13:15:00	26.9	6.62	99.8
7/24/2006	13:30:00	27.2	6.61	100.1
7/24/2006	13:45:00	27.4	6.54	99.6
7/24/2006	14:00:00	27.6	6.37	97.3
7/24/2006	14:15:00	27.8	6.37	97.6
7/24/2006	14:30:00	28.0	6.40	98.4
7/24/2006	14:45:00	28.2	6.51	100.5
7/24/2006	15:00:00	28.3	6.44	99.7
7/24/2006	15:15:00	28.5	6.53	101.4
7/24/2006	15:30:00	28.7	6.37	99.2
7/24/2006	15:45:00	28.8	6.15	95.9
7/24/2006	16:00:00	28.6	6.51	101.2
7/24/2006	16:15:00	28.9	6.50	101.5
7/24/2006	16:30:00	28.9	6.43	100.5
7/24/2006	16:45:00	29.0	6.41	100.3
7/24/2006	17:00:00	28.9	6.48	101.3
7/24/2006	17:15:00	29.0	6.25	97.8
7/24/2006	17:30:00	28.8	6.12	95.5
7/24/2006	17:45:00	28.6	6.05	94.0
7/24/2006	18:00:00	28.4	5.80	90.0
7/24/2006	18:15:00	28.3	5.42	83.7
7/24/2006	18:30:00	28.1	5.12	78.9
7/24/2006	18:45:00	27.9	4.80	73.7
7/24/2006	19:00:00	27.7	4.48	68.5
7/24/2006	19:15:00	27.3	4.21	64.0
7/24/2006	19:30:00	26.6	4.14	62.1
7/24/2006	19:45:00	26.2	4.09	60.9
7/24/2006	20:00:00	26.2	3.98	59.3
7/24/2006	20:15:00	26.0	3.85	57.1
7/24/2006	20:30:00	25.9	3.71	55.0

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/24/2006	20:45:00	25.8	3.59	53.1
7/24/2006	21:00:00	25.6	3.49	51.3
7/24/2006	21:15:00	25.4	3.41	50.0*
7/24/2006	21:30:00	25.3	3.33	48.7
7/24/2006	21:45:00	25.3	3.26	47.7
7/24/2006	22:00:00	25.2	3.23	47.2
7/24/2006	22:15:00	25.2	3.18	46.4
7/24/2006	22:30:00	25.1	3.16	46.0
7/24/2006	22:45:00	25.0	3.15	45.8
7/24/2006	23:00:00	25.0	3.10	45.1
7/24/2006	23:15:00	25.1	2.99	43.6
7/24/2006	23:30:00	25.1	2.77	40.4
7/24/2006	23:45:00	25.0	2.52	36.6
7/25/2006	0:00:00	25.0	2.28	33.2
7/25/2006	0:15:00	24.9	2.07	30.1
7/25/2006	0:30:00	24.8	1.87	27.1
7/25/2006	0:45:00	24.7	1.67	24.2
7/25/2006	1:00:00	24.6	1.49	21.6
7/25/2006	1:15:00	24.6	1.34	19.3
7/25/2006	1:30:00	24.5	1.22	17.5
7/25/2006	1:45:00	24.4	1.12	16.1
7/25/2006	2:00:00	24.3	1.04	14.9
7/25/2006	2:15:00	24.2	0.97	13.8
7/25/2006	2:30:00	24.1	0.90	12.8
7/25/2006	2:45:00	24.0	0.83	11.9
7/25/2006	3:00:00	24.0	0.78	11.1
7/25/2006	3:15:00	23.9	0.72	10.3
7/25/2006	3:30:00	23.8	0.67	9.5
7/25/2006	3:45:00	23.7	0.62	8.8
7/25/2006	4:00:00	23.6	0.58	8.2
7/25/2006	4:15:00	23.5	0.53	7.5
7/25/2006	4:30:00	23.5	0.49	6.9
7/25/2006	4:45:00	23.4	0.46	6.4
7/25/2006	5:00:00	23.3	0.43	6.0
7/25/2006	5:15:00	23.3	0.40	5.7
7/25/2006	5:30:00	23.2	0.38	5.4
7/25/2006	5:45:00	23.2	0.37	5.1
7/25/2006	6:00:00	23.2	0.35	4.9
7/25/2006	6:15:00	23.1	0.34	4.7
7/25/2006	6:30:00	23.1	0.32	4.5
7/25/2006	6:45:00	23.1	0.31	4.4
7/25/2006	7:00:00	23.0	0.31	4.3
7/25/2006	7:15:00	23.0	0.30	4.2
7/25/2006	7:30:00	23.0	0.29	4.1
7/25/2006	7:45:00	22.9	0.29	4.0
7/25/2006	8:00:00	22.9	0.28	3.9

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/25/2006	8:15:00	22.9	0.28	3.9
7/25/2006	8:30:00	22.9	0.27	3.8
7/25/2006	8:45:00	22.9	0.27	3.8
7/25/2006	9:00:00	22.9	0.27	3.7
7/25/2006	9:15:00	22.9	0.26	3.7
7/25/2006	9:30:00	22.9	0.26	3.7
7/25/2006	9:45:00	22.9	0.26	3.6
7/25/2006	10:00:00	23.0	0.26	3.6
7/25/2006	10:15:00	23.0	0.25	3.5
7/25/2006	10:30:00	23.0	0.25	3.5
7/25/2006	10:45:00	23.0	0.25	3.4
7/25/2006	11:00:00	23.0	0.24	3.4
7/25/2006	11:15:00	23.0	0.24	3.4
7/25/2006	11:30:00	23.0	0.24	3.3
7/25/2006	11:45:00	23.0	0.24	3.3
7/25/2006	12:00:00	23.1	0.23	3.3
7/25/2006	12:15:00	23.1	0.23	3.2
7/25/2006	12:30:00	23.2	0.23	3.2
7/25/2006	12:45:00	23.2	0.22	3.2
7/25/2006	13:00:00	23.3	0.22	3.1
7/25/2006	13:15:00	23.4	0.22	3.1
7/25/2006	13:30:00	23.5	0.21	3.0
7/25/2006	13:45:00	23.6	0.21	3.0
7/25/2006	14:00:00	23.7	0.20	2.9
7/25/2006	14:15:00	23.9	0.20	2.8
7/25/2006	14:30:00	24.1	0.19	2.7
7/25/2006	14:45:00	24.4	0.18	2.6
7/25/2006	15:00:00	24.7	0.17	2.5
7/25/2006	15:15:00	25.2	0.16	2.4
7/25/2006	15:30:00	25.7	0.15	2.2
7/25/2006	15:45:00	26.0	0.14	2.1
7/25/2006	16:00:00	26.2	0.13	1.9
7/25/2006	16:15:00	26.5	0.12	1.8
7/25/2006	16:30:00	26.7	0.11	1.7
7/25/2006	16:45:00	27.0	0.11	1.6
7/25/2006	17:00:00	27.3	0.10	1.6
7/25/2006	17:15:00	27.6	0.10	1.5
7/25/2006	17:30:00	27.8	0.09	1.5
7/25/2006	17:45:00	27.9	0.09	1.4
7/25/2006	18:00:00	28.0	0.09	1.4
7/25/2006	18:15:00	28.0	0.09	1.4
7/25/2006	18:30:00	28.0	0.09	1.4
7/25/2006	18:45:00	28.0	0.09	1.3
7/25/2006	19:00:00	27.9	0.09	1.3
7/25/2006	19:15:00	27.9	0.09	1.3
7/25/2006	19:30:00	27.9	0.08	1.3

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/25/2006	19:45:00	28.0	0.08	1.3
7/25/2006	20:00:00	28.0	0.08	1.3
7/25/2006	20:15:00	28.0	0.08	1.3
7/25/2006	20:30:00	28.0	0.08	1.3
7/25/2006	20:45:00	28.1	0.08	1.3
7/25/2006	21:00:00	28.1	0.08	1.2
7/25/2006	21:15:00	28.1	0.08	1.2
7/25/2006	21:30:00	28.0	0.08	1.2
7/25/2006	21:45:00	28.0	0.08	1.2
7/25/2006	22:00:00	27.9	0.08	1.2
7/25/2006	22:15:00	27.8	0.07	1.1
7/25/2006	22:30:00	27.8	0.07	1.1
7/25/2006	22:45:00	27.7	0.07	1.1
7/25/2006	23:00:00	27.6	0.07	1.1
7/25/2006	23:15:00	27.5	0.07	1.0
7/25/2006	23:30:00	27.5	0.07	1.0
7/25/2006	23:45:00	27.4	0.07	1.0
7/26/2006	0:00:00	27.3	0.06	1.0
7/26/2006	0:15:00	27.2	0.06	0.9
7/26/2006	0:30:00	27.2	0.06	0.9
7/26/2006	0:45:00	27.0	0.06	0.9
7/26/2006	1:00:00	26.7	0.06	0.9
7/26/2006	1:15:00	26.7	0.06	0.9
7/26/2006	1:30:00	26.6	0.06	0.9
7/26/2006	1:45:00	26.5	0.06	0.9
7/26/2006	2:00:00	26.5	0.06	0.9
7/26/2006	2:15:00	26.4	0.06	0.9
7/26/2006	2:30:00	26.3	0.06	0.8
7/26/2006	2:45:00	26.3	0.06	0.8
7/26/2006	3:00:00	26.1	0.06	0.8
7/26/2006	3:15:00	26.0	0.05	0.8
7/26/2006	3:30:00	25.8	0.05	0.8
7/26/2006	3:45:00	25.6	0.05	0.8
7/26/2006	4:00:00	25.5	0.05	0.8
7/26/2006	4:15:00	25.4	0.05	0.8
7/26/2006	4:30:00	25.4	0.05	0.8
7/26/2006	4:45:00	25.4	0.05	0.8
7/26/2006	5:00:00	25.3	0.05	0.8
7/26/2006	5:15:00	25.2	0.05	0.7
7/26/2006	5:30:00	25.0	0.05	0.7
7/26/2006	5:45:00	24.9	0.05	0.7
7/26/2006	6:00:00	24.7	0.05	0.7
7/26/2006	6:15:00	24.6	0.05	0.7
7/26/2006	6:30:00	24.5	0.05	0.7
7/26/2006	6:45:00	24.4	0.05	0.7
7/26/2006	7:00:00	24.3	0.04	0.6

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/26/2006	7:15:00	24.2	0.04	0.6
7/26/2006	7:30:00	24.1	0.04	0.6
7/26/2006	7:45:00	24.0	0.04	0.6
7/26/2006	8:00:00	24.0	0.04	0.6
7/26/2006	8:15:00	23.9	0.04	0.6
7/26/2006	8:30:00	23.8	0.04	0.6
7/26/2006	8:45:00	23.6	0.04	0.6
7/26/2006	9:00:00	23.6	0.04	0.6
7/26/2006	9:15:00	23.5	0.04	0.6*
7/26/2006	9:30:00	24.1	6.69	95.7
7/26/2006	9:45:00	24.4	6.71	96.4
7/26/2006	10:00:00	24.6	6.70	96.7
7/26/2006	10:15:00	24.8	6.69	97.0
7/26/2006	10:30:00	25.1	6.69	97.4
7/26/2006	10:45:00	25.3	6.69	97.9
7/26/2006	11:00:00	25.6	6.68	98.2
7/26/2006	11:15:00	25.9	6.67	98.6
7/26/2006	11:30:00	26.2	6.65	99.0
7/26/2006	11:45:00	26.5	6.65	99.5
7/26/2006	12:00:00	26.8	6.64	99.8
7/26/2006	12:15:00	27.1	6.63	100.2
7/26/2006	12:30:00	27.4	6.62	100.6
7/26/2006	12:45:00	27.6	6.61	100.9
7/26/2006	13:00:00	27.8	6.60	101.2
7/26/2006	13:15:00	28.1	6.59	101.6
7/26/2006	13:30:00	28.3	6.58	101.8
7/26/2006	13:45:00	28.6	6.56	101.9
7/26/2006	14:00:00	28.7	6.55	102.0
7/26/2006	14:15:00	28.9	6.54	102.2
7/26/2006	14:30:00	29.2	6.52	102.3
7/26/2006	14:45:00	29.4	6.50	102.5
7/26/2006	15:00:00	29.4	6.49	102.4
7/26/2006	15:15:00	29.3	6.49	102.0
7/26/2006	15:30:00	29.1	6.48	101.7
7/26/2006	15:45:00	29.0	6.47	101.3
7/26/2006	16:00:00	28.8	6.45	100.5
7/26/2006	16:15:00	28.4	6.44	99.8
7/26/2006	16:30:00	28.3	6.43	99.3
7/26/2006	16:45:00	28.1	6.41	98.8
7/26/2006	17:00:00	27.7	6.40	97.9
7/26/2006	17:15:00	27.6	6.40	97.8
7/26/2006	17:30:00	27.5	6.40	97.5
7/26/2006	17:45:00	27.3	6.40	97.1
7/26/2006	18:00:00	27.3	6.39	97.0
7/26/2006	18:15:00	27.2	6.39	96.7
7/26/2006	18:30:00	27.1	6.39	96.6

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/26/2006	18:45:00	27.0	6.39	96.5
7/26/2006	19:00:00	26.9	6.39	96.3
7/26/2006	19:15:00	26.8	6.39	96.2
7/26/2006	19:30:00	26.7	6.40	96.1
7/26/2006	19:45:00	26.7	6.39	95.9
7/26/2006	20:00:00	26.6	6.39	95.8
7/26/2006	20:15:00	26.5	6.39	95.5
7/26/2006	20:30:00	26.4	6.38	95.3
7/26/2006	20:45:00	26.4	6.38	95.2
7/26/2006	21:00:00	26.2	6.38	94.9
7/26/2006	21:15:00	26.0	6.38	94.7
7/26/2006	21:30:00	25.8	6.39	94.3
7/26/2006	21:45:00	25.6	6.43	94.6
7/26/2006	22:00:00	25.4	6.49	95.0
7/26/2006	22:15:00	25.2	6.51	95.0
7/26/2006	22:30:00	25.0	6.52	94.8
7/26/2006	22:45:00	24.9	6.51	94.6
7/26/2006	23:00:00	25.9	3.58	52.9
7/26/2006	23:15:00	24.0	5.62	80.2
7/26/2006	23:30:00	23.3	6.16	86.8
7/26/2006	23:45:00	23.3	6.36	89.6
7/27/2006	0:00:00	23.8	6.37	90.6
7/27/2006	0:15:00	23.6	6.63	93.8
7/27/2006	0:30:00	23.4	6.82	96.1
7/27/2006	0:45:00	23.2	6.92	97.3
7/27/2006	1:00:00	23.1	6.93	97.3
7/27/2006	1:15:00	23.2	6.88	96.7
7/27/2006	1:30:00	23.2	6.79	95.5
7/27/2006	1:45:00	23.3	6.67	94.0
7/27/2006	2:00:00	23.4	6.57	92.8
7/27/2006	2:15:00	23.5	6.51	92.0
7/27/2006	2:30:00	23.5	6.45	91.1
7/27/2006	2:45:00	23.4	6.41	90.5
7/27/2006	3:00:00	23.4	6.41	90.5
7/27/2006	3:15:00	23.4	6.44	90.8
7/27/2006	3:30:00	23.3	6.48	91.2
7/27/2006	3:45:00	23.3	6.50	91.5
7/27/2006	4:00:00	23.2	6.52	91.6
7/27/2006	4:15:00	23.1	6.53	91.6
7/27/2006	4:30:00	23.1	6.54	91.7
7/27/2006	4:45:00	23.0	6.55	91.7
7/27/2006	5:00:00	22.9	6.57	91.7
7/27/2006	5:15:00	22.8	6.57	91.7
7/27/2006	5:30:00	22.7	6.59	91.8
7/27/2006	5:45:00	22.6	6.60	91.8
7/27/2006	6:00:00	22.5	6.62	91.8

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/27/2006	6:15:00	22.5	6.63	91.9
7/27/2006	6:30:00	22.4	6.64	91.9
7/27/2006	6:45:00	22.4	6.65	92.0
7/27/2006	7:00:00	22.4	6.66	92.1
7/27/2006	7:15:00	22.4	6.67	92.3
7/27/2006	7:30:00	22.4	6.69	92.6
7/27/2006	7:45:00	22.5	6.70	92.9
7/27/2006	8:00:00	22.6	6.72	93.3
7/27/2006	8:15:00	22.7	6.73	93.7
7/27/2006	8:30:00	22.8	6.75	94.0
7/27/2006	8:45:00	22.9	6.76	94.4
7/27/2006	9:00:00	23.1	6.76	94.8
7/27/2006	9:15:00	23.3	6.76	95.2
7/27/2006	9:30:00	23.5	6.77	95.6
7/27/2006	9:45:00	23.7	6.77	96.0
7/27/2006	10:00:00	23.9	6.76	96.4
7/27/2006	10:15:00	24.2	6.76	96.9
7/27/2006	10:30:00	24.5	6.76	97.3
7/27/2006	10:45:00	24.8	6.75	97.7
7/27/2006	11:00:00	25.1	6.74	98.2
7/27/2006	11:15:00	25.3	6.73	98.5
7/27/2006	11:30:00	25.7	6.72	99.0
7/27/2006	11:45:00	25.9	6.69	99.1
7/27/2006	12:00:00	26.2	6.60	98.1
7/27/2006	12:15:00	26.4	6.46	96.4
7/27/2006	12:30:00	26.6	6.32	94.6
7/27/2006	12:45:00	26.8	6.21	93.3
7/27/2006	13:00:00	27.0	6.15	92.9
7/27/2006	13:15:00	27.2	6.13	93.0
7/27/2006	13:30:00	27.5	6.13	93.4
7/27/2006	13:45:00	27.7	6.15	93.9
7/27/2006	14:00:00	27.9	6.16	94.7
7/27/2006	14:15:00	28.2	6.18	95.3
7/27/2006	14:30:00	28.4	6.20	95.9
7/27/2006	14:45:00	28.6	6.20	96.4
7/27/2006	15:00:00	28.8	6.22	96.9
7/27/2006	15:15:00	28.9	6.22	97.2
7/27/2006	15:30:00	29.1	6.23	97.7
7/27/2006	15:45:00	28.9	6.23	97.4
7/27/2006	16:00:00	28.8	6.24	97.3
7/27/2006	16:15:00	28.7	6.24	97.1
7/27/2006	16:30:00	28.4	6.23	96.6
7/27/2006	16:45:00	27.9	6.24	95.7
7/27/2006	17:00:00	27.5	6.27	95.4
7/27/2006	17:15:00	27.2	6.27	95.0
7/27/2006	17:30:00	27.0	6.28	94.8

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/27/2006	17:45:00	26.7	6.29	94.4
7/27/2006	18:00:00	26.3	6.31	94.2
7/27/2006	18:15:00	26.0	6.32	93.7
7/27/2006	18:30:00	25.9	6.33	93.7
7/27/2006	18:45:00	25.7	6.36	93.8
7/27/2006	19:00:00	25.6	6.37	93.7
7/27/2006	19:15:00	25.4	6.40	93.7
7/27/2006	19:30:00	25.2	6.42	93.7
7/27/2006	19:45:00	25.1	6.43	93.7
7/27/2006	20:00:00	24.9	6.43	93.4
7/27/2006	20:15:00	24.7	6.44	93.3
7/27/2006	20:30:00	24.6	6.45	93.0
7/27/2006	20:45:00	24.4	6.46	92.9
7/27/2006	21:00:00	24.3	6.47	92.8
7/27/2006	21:15:00	24.1	6.47	92.6
7/27/2006	21:30:00	23.9	6.48	92.3
7/27/2006	21:45:00	23.8	6.50	92.5
7/27/2006	22:00:00	23.7	6.52	92.6
7/27/2006	22:15:00	23.6	6.54	92.5
7/27/2006	22:30:00	23.5	6.55	92.6
7/27/2006	22:45:00	23.5	6.55	92.5
7/27/2006	23:00:00	23.5	6.55	92.5
7/27/2006	23:15:00	23.4	6.56	92.6
7/27/2006	23:30:00	23.3	6.58	92.6
7/27/2006	23:45:00	23.2	6.60	92.8
7/28/2006	0:00:00	23.1	6.62	92.8
7/28/2006	0:15:00	23.0	6.63	92.8
7/28/2006	0:30:00	22.9	6.64	92.8
7/28/2006	0:45:00	22.8	6.66	92.9
7/28/2006	1:00:00	22.7	6.66	92.7
7/28/2006	1:15:00	22.6	6.68	92.7
7/28/2006	1:30:00	22.5	6.69	92.7
7/28/2006	1:45:00	22.4	6.70	92.7
7/28/2006	2:00:00	22.3	6.71	92.7
7/28/2006	2:15:00	22.2	6.72	92.6
7/28/2006	2:30:00	22.2	6.72	92.6
7/28/2006	2:45:00	22.1	6.72	92.5
7/28/2006	3:00:00	22.0	6.73	92.5
7/28/2006	3:15:00	22.0	6.73	92.4
7/28/2006	3:30:00	22.0	6.73	92.4
7/28/2006	3:45:00	21.9	6.74	92.4
7/28/2006	4:00:00	21.9	6.74	92.4
7/28/2006	4:15:00	21.8	6.75	92.4
7/28/2006	4:30:00	21.8	6.75	92.4
7/28/2006	4:45:00	21.7	6.76	92.3
7/28/2006	5:00:00	21.7	6.76	92.3

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/28/2006	5:15:00	21.6	6.74	91.9
7/28/2006	5:30:00	21.6	6.57	89.6
7/28/2006	5:45:00	21.6	6.23	85.0
7/28/2006	6:00:00	21.6	6.00	81.8
7/28/2006	6:15:00	21.6	5.85	79.7
7/28/2006	6:30:00	21.6	5.58	75.9
7/28/2006	6:45:00	21.5	5.38	73.3
7/28/2006	7:00:00	21.5	5.22	71.0
7/28/2006	7:15:00	21.6	5.03	68.5
7/28/2006	7:30:00	21.5	4.67	63.6
7/28/2006	7:45:00	21.4	4.16	56.4
7/28/2006	8:00:00	21.1	3.78	51.0
7/28/2006	8:15:00	20.8	3.61	48.5*
7/28/2006	8:30:00	20.6	3.66	48.9
7/28/2006	8:45:00	20.3	3.80	50.4
7/28/2006	9:00:00	20.1	3.96	52.3
7/28/2006	9:15:00	19.9	4.10	54.0
7/28/2006	9:30:00	19.8	4.24	55.7
7/28/2006	9:45:00	19.7	4.38	57.5
7/28/2006	10:00:00	19.7	4.50	59.0
7/28/2006	10:15:00	19.8	4.59	60.3
7/28/2006	10:30:00	20.0	4.68	61.7
7/28/2006	10:45:00	20.1	4.77	63.0
7/28/2006	11:00:00	20.1	4.53	59.9
7/28/2006	11:15:00	20.1	3.96	52.5
7/28/2006	11:30:00	20.2	5.03	66.7
7/28/2006	11:45:00	20.5	4.14	55.2
7/28/2006	12:00:00	20.6	3.64	48.6
7/28/2006	12:15:00	21.9	5.44	74.5
7/28/2006	12:30:00	22.2	5.62	77.6
7/28/2006	12:45:00	22.6	5.72	79.6
7/28/2006	13:00:00	22.8	5.55	77.4
7/28/2006	13:15:00	22.7	4.44	61.9
7/28/2006	13:30:00	23.4	3.41	48.1
7/28/2006	13:45:00	23.4	3.17	44.8
7/28/2006	14:00:00	23.5	2.79	39.5
7/28/2006	14:15:00	23.6	2.33	33.1
7/28/2006	14:30:00	23.8	1.93	27.4
7/28/2006	14:45:00	24.0	1.73	24.7
7/28/2006	15:00:00	24.0	1.38	19.7
7/28/2006	15:15:00	24.2	6.03	86.4
7/28/2006	15:30:00	24.4	4.82	69.4
7/28/2006	15:45:00	24.4	3.33	47.8
7/28/2006	16:00:00	24.6	2.74	39.5
7/28/2006	16:15:00	24.6	2.96	42.8
7/28/2006	16:30:00	24.6	2.54	36.7

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/28/2006	16:45:00	24.6	3.91	56.5
7/28/2006	17:00:00	24.6	3.49	50.3
7/28/2006	17:15:00	24.5	0.33	4.7
7/28/2006	17:30:00	24.4	0.06	0.9
7/28/2006	17:45:00	24.4	0.05	0.8
7/28/2006	18:00:00	24.4	0.52	7.5
7/28/2006	18:15:00	24.3	0.23	3.3
7/28/2006	18:30:00	24.3	0.03	0.5
7/28/2006	18:45:00	24.3	0.57	8.2
7/28/2006	19:00:00	24.3	0.23	3.3
7/28/2006	19:15:00	24.2	0.25	3.6
7/28/2006	19:30:00	24.2	0.03	0.4
7/28/2006	19:45:00	24.1	0.03	0.4
7/28/2006	20:00:00	24.0	0.03	0.4
7/28/2006	20:15:00	23.1	2.66	37.4
7/28/2006	20:30:00	22.6	4.31	59.9
7/28/2006	20:45:00	22.7	3.27	45.5
7/28/2006	21:00:00	22.8	2.25	31.3
7/28/2006	21:15:00	22.8	1.60	22.3
7/28/2006	21:30:00	22.8	1.14	16.0
7/28/2006	21:45:00	22.8	0.70	9.7
7/28/2006	22:00:00	22.9	0.24	3.3
7/28/2006	22:15:00	22.8	0.06	0.9
7/28/2006	22:30:00	22.8	0.04	0.6
7/28/2006	22:45:00	22.8	0.03	0.5
7/28/2006	23:00:00	22.8	0.03	0.5
7/28/2006	23:15:00	22.8	0.03	0.5
7/28/2006	23:30:00	22.8	0.03	0.5
7/28/2006	23:45:00	22.7	0.05	0.7
7/29/2006	0:00:00	22.7	0.03	0.4
7/29/2006	0:15:00	22.6	0.03	0.4
7/29/2006	0:30:00	22.5	0.04	0.5
7/29/2006	0:45:00	22.4	0.03	0.5
7/29/2006	1:00:00	22.4	0.27	3.8
7/29/2006	1:15:00	22.4	0.34	4.7
7/29/2006	1:30:00	22.4	0.11	1.6
7/29/2006	1:45:00	22.4	0.07	0.9
7/29/2006	2:00:00	22.4	0.04	0.6
7/29/2006	2:15:00	22.4	0.05	0.6
7/29/2006	2:30:00	22.4	0.03	0.5
7/29/2006	2:45:00	22.4	0.03	0.5
7/29/2006	3:00:00	22.3	0.03	0.5
7/29/2006	3:15:00	22.3	0.03	0.5
7/29/2006	3:30:00	22.3	0.03	0.5
7/29/2006	3:45:00	22.3	0.03	0.5
7/29/2006	4:00:00	22.3	0.03	0.5

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/29/2006	4:15:00	22.3	0.03	0.5
7/29/2006	4:30:00	22.3	0.03	0.5
7/29/2006	4:45:00	22.3	0.03	0.5
7/29/2006	5:00:00	22.3	0.03	0.5
7/29/2006	5:15:00	22.3	0.03	0.5
7/29/2006	5:30:00	22.3	0.03	0.5
7/29/2006	5:45:00	22.2	0.03	0.5
7/29/2006	6:00:00	22.2	0.03	0.5
7/29/2006	6:15:00	22.2	0.03	0.5
7/29/2006	6:30:00	22.2	0.03	0.5
7/29/2006	6:45:00	22.2	0.03	0.5
7/29/2006	7:00:00	22.2	0.03	0.5
7/29/2006	7:15:00	22.2	0.03	0.5
7/29/2006	7:30:00	22.2	0.03	0.5
7/29/2006	7:45:00	22.1	0.03	0.5
7/29/2006	8:00:00	22.1	0.03	0.5
7/29/2006	8:15:00	22.1	0.03	0.5
7/29/2006	8:30:00	22.0	0.03	0.5
7/29/2006	8:45:00	22.0	0.03	0.5
7/29/2006	9:00:00	22.0	0.03	0.5
7/29/2006	9:15:00	22.0	0.03	0.5
7/29/2006	9:30:00	22.0	0.03	0.5
7/29/2006	9:45:00	22.0	0.03	0.5
7/29/2006	10:00:00	22.0	0.03	0.5
7/29/2006	10:15:00	22.0	0.03	0.5
7/29/2006	10:30:00	22.0	0.03	0.5
7/29/2006	10:45:00	22.0	0.03	0.5
7/29/2006	11:00:00	22.0	0.03	0.5
7/29/2006	11:15:00	22.1	0.03	0.5
7/29/2006	11:30:00	22.2	0.03	0.5
7/29/2006	11:45:00	22.3	0.03	0.4
7/29/2006	12:00:00	22.4	0.03	0.5
7/29/2006	12:15:00	22.5	0.03	0.4
7/29/2006	12:30:00	22.6	0.03	0.4
7/29/2006	12:45:00	22.8	0.03	0.4
7/29/2006	13:00:00	22.9	0.03	0.4
7/29/2006	13:15:00	23.1	0.06	0.8
7/29/2006	13:30:00	23.4	0.04	0.6
7/29/2006	13:45:00	23.5	0.03	0.4
7/29/2006	14:00:00	23.5	0.04	0.5
7/29/2006	14:15:00	23.6	0.03	0.4
7/29/2006	14:30:00	23.7	0.03	0.4
7/29/2006	14:45:00	23.7	0.03	0.4
7/29/2006	15:00:00	23.7	0.03	0.4
7/29/2006	15:15:00	23.8	0.03	0.4
7/29/2006	15:30:00	23.9	0.03	0.5

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/29/2006	15:45:00	23.9	0.03	0.4
7/29/2006	16:00:00	23.9	0.03	0.4
7/29/2006	16:15:00	23.9	0.03	0.4
7/29/2006	16:30:00	23.9	0.03	0.4
7/29/2006	16:45:00	23.9	0.03	0.4
7/29/2006	17:00:00	23.9	0.03	0.4
7/29/2006	17:15:00	24.0	0.03	0.4
7/29/2006	17:30:00	24.1	0.03	0.4
7/29/2006	17:45:00	24.2	0.03	0.4
7/29/2006	18:00:00	24.2	0.03	0.4
7/29/2006	18:15:00	24.2	0.03	0.4
7/29/2006	18:30:00	24.3	0.03	0.4
7/29/2006	18:45:00	24.3	0.03	0.4
7/29/2006	19:00:00	24.3	0.03	0.4
7/29/2006	19:15:00	24.3	0.03	0.4
7/29/2006	19:30:00	24.3	0.03	0.4
7/29/2006	19:45:00	24.3	0.03	0.4
7/29/2006	20:00:00	24.3	0.03	0.4
7/29/2006	20:15:00	24.3	0.03	0.4
7/29/2006	20:30:00	24.3	0.03	0.4
7/29/2006	20:45:00	24.3	0.03	0.4
7/29/2006	21:00:00	24.2	0.03	0.4
7/29/2006	21:15:00	24.2	0.03	0.4
7/29/2006	21:30:00	24.1	0.03	0.4
7/29/2006	21:45:00	24.1	0.03	0.4
7/29/2006	22:00:00	24.0	0.04	0.6
7/29/2006	22:15:00	23.9	0.35	4.9
7/29/2006	22:30:00	23.8	0.05	0.7
7/29/2006	22:45:00	23.7	0.09	1.2
7/29/2006	23:00:00	23.6	0.05	0.7
7/29/2006	23:15:00	23.6	0.14	2.0
7/29/2006	23:30:00	23.4	0.44	6.2
7/29/2006	23:45:00	23.3	0.37	5.2
7/30/2006	0:00:00	23.3	0.03	0.4
7/30/2006	0:15:00	23.2	0.03	0.4
7/30/2006	0:30:00	23.2	0.03	0.4
7/30/2006	0:45:00	23.2	0.03	0.4
7/30/2006	1:00:00	23.1	0.03	0.4
7/30/2006	1:15:00	23.1	0.03	0.4
7/30/2006	1:30:00	22.9	0.03	0.4
7/30/2006	1:45:00	22.8	0.05	0.7
7/30/2006	2:00:00	22.7	0.03	0.4
7/30/2006	2:15:00	22.7	0.03	0.4
7/30/2006	2:30:00	22.7	0.03	0.4
7/30/2006	2:45:00	22.7	0.05	0.7
7/30/2006	3:00:00	22.6	0.03	0.5

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/30/2006	3:15:00	22.5	0.13	1.7
7/30/2006	3:30:00	22.5	0.03	0.4
7/30/2006	3:45:00	22.5	0.03	0.4
7/30/2006	4:00:00	22.5	0.03	0.4
7/30/2006	4:15:00	22.5	0.03	0.4
7/30/2006	4:30:00	22.5	0.03	0.4
7/30/2006	4:45:00	22.5	0.03	0.5
7/30/2006	5:00:00	22.5	0.03	0.5
7/30/2006	5:15:00	22.5	0.03	0.5
7/30/2006	5:30:00	22.5	0.03	0.5
7/30/2006	5:45:00	22.5	0.03	0.5
7/30/2006	6:00:00	22.5	0.03	0.4
7/30/2006	6:15:00	22.3	0.03	0.4
7/30/2006	6:30:00	22.2	0.03	0.4
7/30/2006	6:45:00	22.2	0.03	0.4
7/30/2006	7:00:00	22.2	0.03	0.4
7/30/2006	7:15:00	22.2	0.03	0.4
7/30/2006	7:30:00	22.2	0.03	0.5
7/30/2006	7:45:00	22.0	0.03	0.5
7/30/2006	8:00:00	21.8	0.03	0.4
7/30/2006	8:15:00	21.6	1.09	14.9
7/30/2006	8:30:00	21.5	6.92	94.2
7/30/2006	8:45:00	21.6	6.94	94.5
7/30/2006	9:00:00	21.6	6.03	82.3
7/30/2006	9:15:00	21.7	5.58	76.2
7/30/2006	9:30:00	21.7	5.17	70.6
7/30/2006	9:45:00	21.8	4.78	65.3
7/30/2006	10:00:00	22.0	3.48	47.8
7/30/2006	10:15:00	22.1	5.48	75.5
7/30/2006	10:30:00	22.2	5.38	74.2
7/30/2006	10:45:00	22.2	4.59	63.2
7/30/2006	11:00:00	22.2	2.80	38.6
7/30/2006	11:15:00	22.6	5.65	78.5
7/30/2006	11:30:00	23.7	6.86	97.4
7/30/2006	11:45:00	24.1	6.89	98.6
7/30/2006	12:00:00	24.3	6.46	92.8
7/30/2006	12:15:00	24.5	5.30	76.3
7/30/2006	12:30:00	24.4	4.22	60.7
7/30/2006	12:45:00	24.4	3.16	45.5
7/30/2006	13:00:00	24.4	1.64	23.7
7/30/2006	13:15:00	24.4	0.63	9.1
7/30/2006	13:30:00	24.3	1.67	24.0
7/30/2006	13:45:00	24.7	2.54	36.7
7/30/2006	14:00:00	24.9	2.42	35.2
7/30/2006	14:15:00	25.1	2.40	35.0
7/30/2006	14:30:00	25.1	3.11	45.3

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/30/2006	14:45:00	25.1	3.53	51.5
7/30/2006	15:00:00	25.6	3.93	57.9
7/30/2006	15:15:00	26.1	4.21	62.5
7/30/2006	15:30:00	26.5	3.77	56.5
7/30/2006	15:45:00	26.8	2.13	32.1
7/30/2006	16:00:00	27.0	1.69	25.5
7/30/2006	16:15:00	27.0	1.39	21.0
7/30/2006	16:30:00	27.0	1.05	15.9
7/30/2006	16:45:00	26.9	0.97	14.6
7/30/2006	17:00:00	26.9	1.35	20.4
7/30/2006	17:15:00	26.9	1.61	24.2
7/30/2006	17:30:00	26.9	1.53	23.1
7/30/2006	17:45:00	26.9	0.85	12.8
7/30/2006	18:00:00	26.9	0.40	6.0
7/30/2006	18:15:00	26.9	0.08	1.3
7/30/2006	18:30:00	26.9	0.03	0.4
7/30/2006	18:45:00	26.9	0.03	0.4
7/30/2006	19:00:00	26.9	0.03	0.4
7/30/2006	19:15:00	26.9	0.03	0.4
7/30/2006	19:30:00	26.8	0.03	0.4
7/30/2006	19:45:00	26.8	0.03	0.4
7/30/2006	20:00:00	26.7	0.03	0.4
7/30/2006	20:15:00	26.7	0.03	0.4
7/30/2006	20:30:00	26.6	0.03	0.4
7/30/2006	20:45:00	26.6	0.03	0.4
7/30/2006	21:00:00	26.6	0.03	0.4
7/30/2006	21:15:00	26.5	0.03	0.4
7/30/2006	21:30:00	26.4	0.03	0.4
7/30/2006	21:45:00	26.3	1.23	18.3
7/30/2006	22:00:00	26.2	1.24	18.4
7/30/2006	22:15:00	26.1	0.64	9.5
7/30/2006	22:30:00	26.1	0.16	2.3
7/30/2006	22:45:00	26.0	0.05	0.7
7/30/2006	23:00:00	26.0	0.03	0.4
7/30/2006	23:15:00	26.0	0.03	0.4
7/30/2006	23:30:00	26.0	0.03	0.4
7/30/2006	23:45:00	25.8	0.52	7.7
7/31/2006	0:00:00	25.7	0.50	7.3
7/31/2006	0:15:00	25.7	0.27	4.0
7/31/2006	0:30:00	25.6	0.07	1.0
7/31/2006	0:45:00	25.6	0.03	0.4
7/31/2006	1:00:00	25.6	0.03	0.4
7/31/2006	1:15:00	25.5	0.03	0.4
7/31/2006	1:30:00	25.4	0.03	0.4
7/31/2006	1:45:00	25.3	0.07	1.0
7/31/2006	2:00:00	25.2	0.07	1.1

Table 5.2. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/31/2006	2:15:00	25.2	0.03	0.5
7/31/2006	2:30:00	25.2	0.03	0.4
7/31/2006	2:45:00	25.2	0.03	0.4
7/31/2006	3:00:00	24.8	1.57	22.8
7/31/2006	3:15:00	24.0	2.03	28.9
7/31/2006	3:30:00	23.4	0.90	12.7
7/31/2006	3:45:00	23.4	0.63	8.9
7/31/2006	4:00:00	23.5	0.93	13.1
7/31/2006	4:15:00	23.5	1.74	24.5
7/31/2006	4:30:00	23.5	2.34	33.1
7/31/2006	4:45:00	23.4	2.79	39.5
7/31/2006	5:00:00	23.4	2.91	41.1
7/31/2006	5:15:00	23.3	2.86	40.2
7/31/2006	5:30:00	23.4	2.66	37.5
7/31/2006	5:45:00	23.4	2.40	33.9
7/31/2006	6:00:00	23.4	2.10	29.7
7/31/2006	6:15:00	23.5	1.76	24.8
7/31/2006	6:30:00	23.5	1.49	21.1
7/31/2006	6:45:00	23.5	1.25	17.6
7/31/2006	7:00:00	23.5	0.99	14.0
7/31/2006	7:15:00	23.5	0.70	9.9
7/31/2006	7:30:00	23.5	0.37	5.2
7/31/2006	7:45:00	23.5	0.13	1.9
7/31/2006	8:00:00	23.5	0.04	0.6
7/31/2006	8:15:00	23.5	0.03	0.5
7/31/2006	8:30:00	23.5	0.03	0.5
7/31/2006	8:45:00	23.4	0.04	0.5
7/31/2006	9:00:00	23.4	0.05	0.7
7/31/2006	9:15:00	23.4	0.06	0.9
7/31/2006	9:30:00	23.4	0.05	0.7
7/31/2006	9:45:00	23.4	0.06	0.9
7/31/2006	10:00:00	23.4	0.05	0.7
7/31/2006	10:15:00	23.4	0.04	0.5
7/31/2006	10:30:00	23.4	0.09	1.3
7/31/2006	10:45:00	23.4	0.20	2.8
7/31/2006	11:00:00	23.5	0.83	11.7
7/31/2006	11:15:00	23.7	2.14	30.3
7/31/2006	11:30:00	23.8	2.26	32.1
7/31/2006	11:45:00	24.0	2.83	40.4
7/31/2006	12:00:00	24.1	2.82	40.3
7/31/2006	12:15:00	24.2	2.96	42.4

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS		
Report generated:		39294.00	11:23:18
Report from file:	...\SN45476 2006-07-17 130000 Site6-7-17-06.bin		
Win-Situ Version	4.55.3.0		
Serial number:		45476.00	
Firmware Version		1.58	
Unit name:	Troll 9000		apollo
Barometric Pressure:		636.71	
Test defined on:		38915.00	1:21:32
Test scheduled for:		38915.00	13:00:00
Test started on:		38915.00	13:00:00
Test stopped on:		38929.00	15:18:09
Data gathered using linear testing			
Time between data points			
Number of data samples:		1354.00	

PROBE MOUNTED BACKWARDS in TUBE - therefore oxygen measurements are unreliable

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
7/21/2006	13:45:00	31.67	5.91	96.8
7/21/2006	14:00:00	32.23	5.87	97.3
7/21/2006	14:15:00	32.51	5.69	94.7
7/21/2006	14:30:00	32.81	5.39	90.1
7/21/2006	14:45:00	33.00	4.99	83.7
7/21/2006	15:00:00	33.09	4.58	77.0
7/21/2006	15:15:00	33.02	4.14	69.6
7/21/2006	15:30:00	33.06	3.65	61.3
7/21/2006	15:45:00	33.29	3.1	52.3
7/21/2006	16:00:00	33.48	2.54	42.9**
7/21/2006	16:15:00	33.32	2	33.7
7/21/2006	16:30:00	33.03	1.55	26.0
7/21/2006	16:45:00	32.56	1.27	21.2
7/21/2006	17:00:00	31.84	1.13	18.6
7/21/2006	17:15:00	31.06	1.09	17.6
7/21/2006	17:30:00	30.66	1.08	17.4
7/21/2006	17:45:00	30.44	1.08	17.3
7/21/2006	18:00:00	30.30	1.08	17.3
7/21/2006	18:15:00	29.99	1.08	17.1
7/21/2006	18:30:00	29.65	1.08	17.1
7/21/2006	18:45:00	29.29	1.09	17.1
7/21/2006	19:00:00	28.97	1.11	17.3
7/21/2006	19:15:00	28.75	1.12	17.5
7/21/2006	19:30:00	28.42	1.15	17.9
7/21/2006	19:45:00	28.15	1.19	18.3
7/21/2006	20:00:00	27.88	1.22	18.7
7/21/2006	20:15:00	27.67	1.24	19.0
7/21/2006	20:30:00	27.39	1.28	19.4

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/21/2006	20:45:00	27.08	1.31	19.8
7/21/2006	21:00:00	26.83	1.35	20.3
7/21/2006	21:15:00	26.56	1.39	20.8
7/21/2006	21:30:00	26.29	1.43	21.3
7/21/2006	21:45:00	26.06	1.47	21.7
7/21/2006	22:00:00	25.76	1.5	22.1
7/21/2006	22:15:00	25.54	1.54	22.6
7/21/2006	22:30:00	25.28	1.58	23.1
7/21/2006	22:45:00	25.09	1.62	23.6
7/21/2006	23:00:00	25.00	1.66	24.2
7/21/2006	23:15:00	24.98	1.7	24.7
7/21/2006	23:30:00	24.89	1.72	25.0
7/21/2006	23:45:00	24.84	1.74	25.3
7/22/2006	0:00:00	24.74	1.77	25.6
7/22/2006	0:15:00	24.73	1.79	25.9
7/22/2006	0:30:00	24.66	1.82	26.3
7/22/2006	0:45:00	24.50	1.84	26.5
7/22/2006	1:00:00	24.32	1.86	26.7
7/22/2006	1:15:00	24.19	1.89	27.1
7/22/2006	1:30:00	24.07	1.93	27.5
7/22/2006	1:45:00	23.96	1.96	27.9
7/22/2006	2:00:00	23.88	1.98	28.2
7/22/2006	2:15:00	23.83	2	28.5
7/22/2006	2:30:00	23.78	2.01	28.6
7/22/2006	2:45:00	23.69	2.03	28.7
7/22/2006	3:00:00	23.62	2.04	28.9
7/22/2006	3:15:00	23.56	2.06	29.1
7/22/2006	3:30:00	23.48	2.07	29.3
7/22/2006	3:45:00	23.41	2.09	29.4
7/22/2006	4:00:00	23.35	2.1	29.6
7/22/2006	4:15:00	23.28	2.12	29.7
7/22/2006	4:30:00	23.21	2.13	29.9
7/22/2006	4:45:00	23.18	2.13	30.0
7/22/2006	5:00:00	23.15	2.15	30.1
7/22/2006	5:15:00	23.10	2.16	30.2
7/22/2006	5:30:00	23.02	2.16	30.2
7/22/2006	5:45:00	22.93	2.16	30.2
7/22/2006	6:00:00	22.83	2.17	30.3
7/22/2006	6:15:00	22.72	2.19	30.5
7/22/2006	6:30:00	22.62	2.21	30.7
7/22/2006	6:45:00	22.54	2.23	30.9
7/22/2006	7:00:00	22.46	2.25	31.2
7/22/2006	7:15:00	22.40	2.28	31.5
7/22/2006	7:30:00	22.36	2.31	31.9
7/22/2006	7:45:00	22.38	2.34	32.4
7/22/2006	8:00:00	22.43	2.38	32.9
7/22/2006	8:15:00	22.50	2.41	33.4

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/22/2006	8:30:00	22.58	2.44	33.9
7/22/2006	8:45:00	22.73	2.47	34.4
7/22/2006	9:00:00	23.01	2.49	34.8
7/22/2006	9:15:00	23.29	2.49	35.0
7/22/2006	9:30:00	23.62	2.48	35.1
7/22/2006	9:45:00	23.95	2.45	34.9
7/22/2006	10:00:00	24.31	2.41	34.6
7/22/2006	10:15:00	24.68	2.36	34.1
7/22/2006	10:30:00	25.07	2.3	33.5
7/22/2006	10:45:00	25.48	2.26	33.1
7/22/2006	11:00:00	25.78	2.21	32.6
7/22/2006	11:15:00	26.11	2.17	32.3
7/22/2006	11:30:00	26.48	2.13	31.8
7/22/2006	11:45:00	26.86	2.1	31.5
7/22/2006	12:00:00	27.23	2.09	31.6
7/22/2006	12:15:00	27.67	2.07	31.7
7/22/2006	12:30:00	28.07	2.02	31.0
7/22/2006	12:45:00	28.44	1.94	30.1
7/22/2006	13:00:00	28.77	1.86	29.0
7/22/2006	13:15:00	29.20	1.78	27.9
7/22/2006	13:30:00	29.58	1.69	26.8
7/22/2006	13:45:00	29.91	1.61	25.6
7/22/2006	14:00:00	30.21	1.53	24.4
7/22/2006	14:15:00	30.51	1.44	23.2
7/22/2006	14:30:00	30.90	1.36	22.0
7/22/2006	14:45:00	31.17	1.3	21.2
7/22/2006	15:00:00	31.41	1.25	20.5
7/22/2006	15:15:00	31.63	1.21	19.9
7/22/2006	15:30:00	31.84	1.18	19.4
7/22/2006	15:45:00	32.01	1.15	18.9
7/22/2006	16:00:00	32.18	1.11	18.3
7/22/2006	16:15:00	32.08	1.07	17.7
7/22/2006	16:30:00	31.83	1.04	17.1
7/22/2006	16:45:00	31.67	1.03	16.8
7/22/2006	17:00:00	31.63	1.04	17.1
7/22/2006	17:15:00	31.63	1.08	17.7
7/22/2006	17:30:00	31.61	1.12	18.3
7/22/2006	17:45:00	31.54	1.13	18.5
7/22/2006	18:00:00	31.48	1.12	18.3
7/22/2006	18:15:00	31.40	1.1	17.9
7/22/2006	18:30:00	31.25	1.08	17.6
7/22/2006	18:45:00	31.09	1.07	17.4
7/22/2006	19:00:00	30.91	1.08	17.5
7/22/2006	19:15:00	30.51	1.1	17.7
7/22/2006	19:30:00	30.17	1.1	17.6
7/22/2006	19:45:00	29.87	1.1	17.5
7/22/2006	20:00:00	29.64	1.1	17.3

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/22/2006	20:15:00	29.41	1.1	17.4
7/22/2006	20:30:00	29.15	1.14	17.9
7/22/2006	20:45:00	28.86	1.2	18.8
7/22/2006	21:00:00	28.31	1.24	19.2
7/22/2006	21:15:00	27.98	1.28	19.6
7/22/2006	21:30:00	27.76	1.3	19.9
7/22/2006	21:45:00	27.56	1.3	19.8
7/22/2006	22:00:00	27.34	1.32	20.0
7/22/2006	22:15:00	27.15	1.33	20.2
7/22/2006	22:30:00	27.00	1.35	20.4
7/22/2006	22:45:00	26.86	1.36	20.5
7/22/2006	23:00:00	26.74	1.38	20.8
7/22/2006	23:15:00	26.62	1.4	20.9
7/22/2006	23:30:00	26.54	1.42	21.2
7/22/2006	23:45:00	26.42	1.43	21.4
7/23/2006	0:00:00	26.31	1.44	21.4
7/23/2006	0:15:00	26.17	1.45	21.5
7/23/2006	0:30:00	26.04	1.47	21.7
7/23/2006	0:45:00	25.88	1.53	22.6
7/23/2006	1:00:00	25.67	1.54	22.6
7/23/2006	1:15:00	25.53	1.53	22.4
7/23/2006	1:30:00	25.42	1.5	22.0
7/23/2006	1:45:00	25.32	1.48	21.7
7/23/2006	2:00:00	25.25	1.47	21.5
7/23/2006	2:15:00	25.17	1.47	21.4
7/23/2006	2:30:00	25.09	1.47	21.4
7/23/2006	2:45:00	25.02	1.47	21.3
7/23/2006	3:00:00	24.92	1.46	21.1
7/23/2006	3:15:00	24.87	1.47	21.4
7/23/2006	3:30:00	24.81	1.49	21.6
7/23/2006	3:45:00	24.74	1.51	21.9
7/23/2006	4:00:00	24.65	1.53	22.0
7/23/2006	4:15:00	24.58	1.53	22.1
7/23/2006	4:30:00	24.52	1.53	22.1
7/23/2006	4:45:00	24.48	1.53	22.0
7/23/2006	5:00:00	24.43	1.53	22.0
7/23/2006	5:15:00	24.39	1.54	22.1
7/23/2006	5:30:00	24.32	1.52	21.8
7/23/2006	5:45:00	24.24	1.51	21.7
7/23/2006	6:00:00	24.14	1.5	21.5
7/23/2006	6:15:00	24.02	1.48	21.1
7/23/2006	6:30:00	23.91	1.46	20.8
7/23/2006	6:45:00	23.83	1.46	20.7
7/23/2006	7:00:00	23.76	1.45	20.6
7/23/2006	7:15:00	23.72	1.44	20.4
7/23/2006	7:30:00	23.69	1.43	20.3
7/23/2006	7:45:00	23.72	1.49	21.1

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/23/2006	8:00:00	23.79	1.55	21.9
7/23/2006	8:15:00	23.85	1.59	22.5
7/23/2006	8:30:00	23.91	1.62	23.0
7/23/2006	8:45:00	24.00	1.64	23.4
7/23/2006	9:00:00	24.15	1.66	23.7
7/23/2006	9:15:00	24.34	1.68	24.1
7/23/2006	9:30:00	24.54	1.7	24.5
7/23/2006	9:45:00	24.74	1.72	24.8
7/23/2006	10:00:00	24.95	1.71	24.9
7/23/2006	10:15:00	25.16	1.69	24.7
7/23/2006	10:30:00	25.38	1.66	24.2
7/23/2006	10:45:00	25.59	1.64	24.1
7/23/2006	11:00:00	25.83	1.61	23.8
7/23/2006	11:15:00	26.05	1.57	23.3
7/23/2006	11:30:00	26.28	1.47	21.9
7/23/2006	11:45:00	26.49	1.31	19.6
7/23/2006	12:00:00	26.72	1.18	17.6
7/23/2006	12:15:00	26.95	1.03	15.6
7/23/2006	12:30:00	27.21	0.92	14.0
7/23/2006	12:45:00	27.44	0.8	12.2
7/23/2006	13:00:00	27.71	0.72	10.9
7/23/2006	13:15:00	27.94	0.66	10.2
7/23/2006	13:30:00	28.21	0.59	9.0
7/23/2006	13:45:00	28.46	0.52	8.1
7/23/2006	14:00:00	28.62	0.47	7.3
7/23/2006	14:15:00	28.77	0.42	6.5
7/23/2006	14:30:00	28.86	0.38	5.9
7/23/2006	14:45:00	28.88	0.35	5.4
7/23/2006	15:00:00	28.90	0.34	5.3
7/23/2006	15:15:00	28.89	0.33	5.1
7/23/2006	15:30:00	28.92	0.32	5.1
7/23/2006	15:45:00	29.05	0.32	5.0
7/23/2006	16:00:00	29.23	0.3	4.8
7/23/2006	16:15:00	29.34	0.28	4.5
7/23/2006	16:30:00	29.44	0.27	4.2
7/23/2006	16:45:00	29.54	0.25	3.9
7/23/2006	17:00:00	29.58	0.24	3.8
7/23/2006	17:15:00	29.62	0.23	3.6
7/23/2006	17:30:00	29.61	0.22	3.5
7/23/2006	17:45:00	29.50	0.22	3.4
7/23/2006	18:00:00	29.42	0.22	3.5
7/23/2006	18:15:00	29.37	0.22	3.5
7/23/2006	18:30:00	29.26	0.22	3.5
7/23/2006	18:45:00	29.12	0.22	3.4
7/23/2006	19:00:00	28.93	0.22	3.4
7/23/2006	19:15:00	28.78	0.21	3.3
7/23/2006	19:30:00	28.59	0.21	3.3

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/23/2006	19:45:00	28.45	0.22	3.4
7/23/2006	20:00:00	28.31	0.22	3.5
7/23/2006	20:15:00	28.13	0.23	3.6
7/23/2006	20:30:00	27.90	0.24	3.6
7/23/2006	20:45:00	27.64	0.24	3.7
7/23/2006	21:00:00	27.43	0.24	3.7
7/23/2006	21:15:00	27.25	0.25	3.8
7/23/2006	21:30:00	27.09	0.25	3.8
7/23/2006	21:45:00	26.98	0.25	3.8
7/23/2006	22:00:00	26.87	0.26	3.9
7/23/2006	22:15:00	26.76	0.26	3.9
7/23/2006	22:30:00	26.61	0.26	3.9
7/23/2006	22:45:00	26.46	0.26	3.9
7/23/2006	23:00:00	26.32	0.27	4.1
7/23/2006	23:15:00	26.22	0.28	4.2
7/23/2006	23:30:00	26.15	0.28	4.2
7/23/2006	23:45:00	26.02	0.28	4.1
7/24/2006	0:00:00	25.88	0.28	4.1
7/24/2006	0:15:00	25.74	0.29	4.2
7/24/2006	0:30:00	25.64	0.29	4.2
7/24/2006	0:45:00	25.53	0.28	4.1
7/24/2006	1:00:00	25.43	0.29	4.2
7/24/2006	1:15:00	25.32	0.29	4.3
7/24/2006	1:30:00	25.23	0.3	4.3
7/24/2006	1:45:00	25.13	0.31	4.5
7/24/2006	2:00:00	25.03	0.33	4.8
7/24/2006	2:15:00	24.94	0.34	4.9
7/24/2006	2:30:00	24.84	0.34	5.0
7/24/2006	2:45:00	24.73	0.35	5.0
7/24/2006	3:00:00	24.63	0.33	4.8
7/24/2006	3:15:00	24.56	0.32	4.6
7/24/2006	3:30:00	24.48	0.3	4.3
7/24/2006	3:45:00	24.40	0.28	4.1
7/24/2006	4:00:00	24.35	0.27	3.9
7/24/2006	4:15:00	24.27	0.27	3.9
7/24/2006	4:30:00	24.18	0.27	3.9
7/24/2006	4:45:00	24.10	0.27	3.9
7/24/2006	5:00:00	24.02	0.28	4.0
7/24/2006	5:15:00	23.95	0.29	4.1
7/24/2006	5:30:00	23.86	0.29	4.2
7/24/2006	5:45:00	23.75	0.3	4.2
7/24/2006	6:00:00	23.64	0.3	4.3
7/24/2006	6:15:00	23.54	0.31	4.3
7/24/2006	6:30:00	23.43	0.32	4.5
7/24/2006	6:45:00	23.33	0.33	4.6
7/24/2006	7:00:00	23.25	0.35	4.9
7/24/2006	7:15:00	23.22	0.36	5.1

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/24/2006	7:30:00	23.19	0.38	5.3
7/24/2006	7:45:00	23.18	0.39	5.4
7/24/2006	8:00:00	23.19	0.39	5.5
7/24/2006	8:15:00	23.23	0.39	5.5
7/24/2006	8:30:00	23.33	0.4	5.6
7/24/2006	8:45:00	23.37	0.4	5.6
7/24/2006	9:00:00	23.40	0.4	5.7
7/24/2006	9:15:00	23.52	0.41	5.8
7/24/2006	9:30:00	23.80	0.41	5.8
7/24/2006	9:45:00	24.07	0.41	5.9
7/24/2006	10:00:00	24.34	0.4	5.8
7/24/2006	10:15:00	24.58	0.4	5.7
7/24/2006	10:30:00	24.80	0.39	5.6
7/24/2006	10:45:00	25.05	0.38	5.5
7/24/2006	11:00:00	25.32	0.37	5.4
7/24/2006	11:15:00	25.59	0.36	5.3
7/24/2006	11:30:00	25.87	0.35	5.1
7/24/2006	11:45:00	26.16	0.33	4.8
7/24/2006	12:00:00	26.45	0.3	4.5
7/24/2006	12:15:00	26.77	0.29	4.3
7/24/2006	12:30:00	27.07	0.27	4.0
7/24/2006	12:45:00	27.40	0.25	3.8
7/24/2006	13:00:00	27.77	0.23	3.5
7/24/2006	13:15:00	28.14	0.21	3.2
7/24/2006	13:30:00	28.51	0.18	2.9
7/24/2006	13:45:00	28.85	0.16	2.6
7/24/2006	14:00:00	29.21	0.15	2.3
7/24/2006	14:15:00	29.53	0.13	2.1
7/24/2006	14:30:00	29.83	0.12	1.9
7/24/2006	14:45:00	30.14	0.11	1.8
7/24/2006	15:00:00	30.39	0.1	1.7
7/24/2006	15:15:00	30.71	0.09	1.5
7/24/2006	15:30:00	30.93	0.09	1.4
7/24/2006	15:45:00	31.05	0.08	1.4
7/24/2006	16:00:00	31.14	0.08	1.3
7/24/2006	16:15:00	31.37	0.08	1.3
7/24/2006	16:30:00	31.57	0.08	1.3
7/24/2006	16:45:00	31.75	0.07	1.2
7/24/2006	17:00:00	31.72	0.07	1.2
7/24/2006	17:15:00	31.80	0.07	1.2
7/24/2006	17:30:00	31.67	0.07	1.2
7/24/2006	17:45:00	31.73	0.07	1.2
7/24/2006	18:00:00	31.65	0.07	1.2
7/24/2006	18:15:00	31.51	0.07	1.2
7/24/2006	18:30:00	31.14	0.07	1.2
7/24/2006	18:45:00	30.29	0.07	1.2
7/24/2006	19:00:00	29.85	0.08	1.3

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/24/2006	19:15:00	29.74	0.08	1.3
7/24/2006	19:30:00	29.70	0.08	1.3
7/24/2006	19:45:00	29.47	0.09	1.4
7/24/2006	20:00:00	28.81	0.09	1.4
7/24/2006	20:15:00	28.52	0.1	1.5
7/24/2006	20:30:00	28.19	0.1	1.6
7/24/2006	20:45:00	28.13	0.11	1.7
7/24/2006	21:00:00	28.11	0.11	1.7
7/24/2006	21:15:00	28.06	0.11	1.8
7/24/2006	21:30:00	28.00	0.12	1.8
7/24/2006	21:45:00	27.79	0.12	1.9
7/24/2006	22:00:00	27.65	0.12	1.9
7/24/2006	22:15:00	27.53	0.13	1.9
7/24/2006	22:30:00	27.34	0.13	2.0
7/24/2006	22:45:00	27.25	0.14	2.1
7/24/2006	23:00:00	27.20	0.14	2.2
7/24/2006	23:15:00	27.12	0.15	2.2
7/24/2006	23:30:00	26.94	0.15	2.3
7/24/2006	23:45:00	26.74	0.16	2.4
7/25/2006	0:00:00	26.54	0.17	2.5
7/25/2006	0:15:00	26.40	0.18	2.6
7/25/2006	0:30:00	26.27	0.19	2.8
7/25/2006	0:45:00	26.10	0.2	2.9
7/25/2006	1:00:00	25.98	0.21	3.0
7/25/2006	1:15:00	25.84	0.21	3.2
7/25/2006	1:30:00	25.71	0.23	3.3
7/25/2006	1:45:00	25.59	0.24	3.5
7/25/2006	2:00:00	25.49	0.25	3.6
7/25/2006	2:15:00	25.40	0.26	3.8
7/25/2006	2:30:00	25.30	0.27	4.0
7/25/2006	2:45:00	25.23	0.29	4.3
7/25/2006	3:00:00	25.18	0.31	4.5
7/25/2006	3:15:00	25.11	0.31	4.6
7/25/2006	3:30:00	25.08	0.32	4.7
7/25/2006	3:45:00	25.02	0.33	4.7
7/25/2006	4:00:00	24.99	0.32	4.7
7/25/2006	4:15:00	24.93	0.31	4.5
7/25/2006	4:30:00	24.87	0.29	4.2
7/25/2006	4:45:00	24.78	0.27	3.9
7/25/2006	5:00:00	24.71	0.26	3.7
7/25/2006	5:15:00	24.62	0.24	3.5
7/25/2006	5:30:00	24.54	0.23	3.3
7/25/2006	5:45:00	24.45	0.23	3.3
7/25/2006	6:00:00	24.34	0.23	3.2
7/25/2006	6:15:00	24.23	0.23	3.2
7/25/2006	6:30:00	24.12	0.23	3.3
7/25/2006	6:45:00	24.03	0.23	3.3

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/25/2006	7:00:00	23.97	0.23	3.3
7/25/2006	7:15:00	23.92	0.24	3.4
7/25/2006	7:30:00	23.89	0.26	3.7
7/25/2006	7:45:00	23.88	0.28	4.0
7/25/2006	8:00:00	23.91	0.31	4.5
7/25/2006	8:15:00	23.98	0.35	5.0
7/25/2006	8:30:00	24.09	0.39	5.6
7/25/2006	8:45:00	24.22	0.42	6.1
7/25/2006	9:00:00	24.38	0.45	6.5
7/25/2006	9:15:00	24.58	0.47	6.7
7/25/2006	9:30:00	24.81	0.48	6.9
7/25/2006	9:45:00	25.05	0.48	7.0
7/25/2006	10:00:00	25.25	0.47	6.8
7/25/2006	10:15:00	25.48	0.45	6.6
7/25/2006	10:30:00	25.74	0.42	6.1
7/25/2006	10:45:00	26.01	0.37	5.4
7/25/2006	11:00:00	26.29	0.31	4.6
7/25/2006	11:15:00	26.59	0.25	3.7
7/25/2006	11:30:00	26.87	0.2	2.9
7/25/2006	11:45:00	27.15	0.16	2.4
7/25/2006	12:00:00	27.43	0.13	2.0
7/25/2006	12:15:00	27.70	0.12	1.8
7/25/2006	12:30:00	27.99	0.1	1.6
7/25/2006	12:45:00	28.29	0.09	1.5
7/25/2006	13:00:00	28.63	0.09	1.3
7/25/2006	13:15:00	28.95	0.08	1.2
7/25/2006	13:30:00	29.26	0.07	1.1
7/25/2006	13:45:00	29.57	0.07	1.1
7/25/2006	14:00:00	29.88	0.06	1.0
7/25/2006	14:15:00	30.17	0.06	0.9
7/25/2006	14:30:00	30.44	0.06	0.9
7/25/2006	14:45:00	30.71	0.05	0.9
7/25/2006	15:00:00	30.99	0.05	0.8
7/25/2006	15:15:00	31.22	0.05	0.8
7/25/2006	15:30:00	31.41	0.05	0.8
7/25/2006	15:45:00	31.56	0.05	0.8
7/25/2006	16:00:00	31.67	0.05	0.8
7/25/2006	16:15:00	31.78	0.05	0.8
7/25/2006	16:30:00	31.82	0.05	0.8
7/25/2006	16:45:00	31.85	0.05	0.8
7/25/2006	17:00:00	31.85	0.05	0.8
7/25/2006	17:15:00	31.79	0.05	0.8
7/25/2006	17:30:00	31.70	0.05	0.8
7/25/2006	17:45:00	31.66	0.05	0.8
7/25/2006	18:00:00	31.64	0.05	0.8
7/25/2006	18:15:00	31.60	0.05	0.8
7/25/2006	18:30:00	31.52	0.05	0.8

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/25/2006	18:45:00	31.43	0.05	0.8
7/25/2006	19:00:00	31.32	0.05	0.8
7/25/2006	19:15:00	31.22	0.05	0.8
7/25/2006	19:30:00	31.09	0.05	0.8
7/25/2006	19:45:00	30.94	0.05	0.8
7/25/2006	20:00:00	30.80	0.05	0.8
7/25/2006	20:15:00	30.64	0.05	0.8
7/25/2006	20:30:00	30.47	0.05	0.8
7/25/2006	20:45:00	30.30	0.05	0.8
7/25/2006	21:00:00	30.15	0.05	0.8
7/25/2006	21:15:00	29.99	0.05	0.8
7/25/2006	21:30:00	29.84	0.05	0.8
7/25/2006	21:45:00	29.71	0.05	0.9
7/25/2006	22:00:00	29.57	0.05	0.9
7/25/2006	22:15:00	29.41	0.05	0.9
7/25/2006	22:30:00	29.21	0.06	0.9
7/25/2006	22:45:00	28.96	0.06	0.9
7/25/2006	23:00:00	28.70	0.06	0.9
7/25/2006	23:15:00	28.48	0.06	1.0
7/25/2006	23:30:00	28.28	0.06	1.0
7/25/2006	23:45:00	28.03	0.07	1.0
7/26/2006	0:00:00	27.78	0.07	1.0
7/26/2006	0:15:00	27.56	0.07	1.1
7/26/2006	0:30:00	27.32	0.07	1.1
7/26/2006	0:45:00	27.11	0.08	1.2
7/26/2006	1:00:00	26.94	0.08	1.2
7/26/2006	1:15:00	26.83	0.08	1.2
7/26/2006	1:30:00	26.74	0.08	1.2
7/26/2006	1:45:00	26.61	0.08	1.2
7/26/2006	2:00:00	26.49	0.09	1.3
7/26/2006	2:15:00	26.37	0.09	1.3
7/26/2006	2:30:00	26.25	0.09	1.4
7/26/2006	2:45:00	26.08	0.1	1.4
7/26/2006	3:00:00	25.89	0.1	1.5
7/26/2006	3:15:00	25.75	0.11	1.5
7/26/2006	3:30:00	25.66	0.11	1.6
7/26/2006	3:45:00	25.60	0.11	1.6
7/26/2006	4:00:00	25.50	0.11	1.7
7/26/2006	4:15:00	25.40	0.12	1.7
7/26/2006	4:30:00	25.31	0.13	1.8
7/26/2006	4:45:00	25.22	0.13	2.0
7/26/2006	5:00:00	25.14	0.14	2.1
7/26/2006	5:15:00	25.07	0.14	2.0
7/26/2006	5:30:00	25.02	0.14	2.0
7/26/2006	5:45:00	24.94	0.14	2.0
7/26/2006	6:00:00	24.86	0.15	2.1
7/26/2006	6:15:00	24.78	0.15	2.2

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/26/2006	6:30:00	24.69	0.15	2.1
7/26/2006	6:45:00	24.60	0.14	2.0
7/26/2006	7:00:00	24.52	0.12	1.8
7/26/2006	7:15:00	24.43	0.11	1.6
7/26/2006	7:30:00	24.38	0.1	1.4
7/26/2006	7:45:00	24.34	0.09	1.3
7/26/2006	8:00:00	24.33	0.08	1.2
7/26/2006	8:15:00	24.35	0.08	1.1
7/26/2006	8:30:00	24.39	0.07	1.0
7/26/2006	8:45:00	24.46	0.07	1.0
7/26/2006	9:00:00	24.58	0.07	1.0
7/26/2006	9:15:00	24.71	0.06	0.9
7/26/2006	9:30:00	24.87	0.07	1.0
7/26/2006	9:45:00	25.03	0.08	1.1
7/26/2006	10:00:00	25.24	0.09	1.3
7/26/2006	10:15:00	25.43	0.11	1.6
7/26/2006	10:30:00	25.64	0.11	1.7
7/26/2006	10:45:00	25.88	0.12	1.8
7/26/2006	11:00:00	26.13	0.13	2.0
7/26/2006	11:15:00	26.39	0.14	2.0
7/26/2006	11:30:00	26.67	0.13	1.9
7/26/2006	11:45:00	26.96	0.1	1.6
7/26/2006	12:00:00	27.27	0.07	1.1
7/26/2006	12:15:00	27.60	0.06	0.8
7/26/2006	12:30:00	27.96	0.05	0.8
7/26/2006	12:45:00	28.31	0.05	0.8
7/26/2006	13:00:00	28.65	0.06	0.9
7/26/2006	13:15:00	28.95	0.06	0.9
7/26/2006	13:30:00	29.25	0.06	0.9
7/26/2006	13:45:00	29.55	0.05	0.8
7/26/2006	14:00:00	29.83	0.05	0.8
7/26/2006	14:15:00	30.11	0.04	0.7
7/26/2006	14:30:00	30.37	0.04	0.7
7/26/2006	14:45:00	30.61	0.04	0.7
7/26/2006	15:00:00	30.84	0.04	0.6
7/26/2006	15:15:00	31.08	0.04	0.6
7/26/2006	15:30:00	31.29	0.04	0.6
7/26/2006	15:45:00	31.53	0.04	0.6
7/26/2006	16:00:00	31.74	0.04	0.6
7/26/2006	16:15:00	31.85	0.04	0.6
7/26/2006	16:30:00	31.82	0.04	0.6
7/26/2006	16:45:00	31.67	0.04	0.7
7/26/2006	17:00:00	31.46	0.04	0.7
7/26/2006	17:15:00	31.19	0.04	0.7
7/26/2006	17:30:00	30.93	0.04	0.7
7/26/2006	17:45:00	30.73	0.04	0.7
7/26/2006	18:00:00	30.52	0.04	0.7

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/26/2006	18:15:00	30.33	0.05	0.7
7/26/2006	18:30:00	30.18	0.05	0.7
7/26/2006	18:45:00	30.06	0.05	0.7
7/26/2006	19:00:00	29.95	0.05	0.7
7/26/2006	19:15:00	29.83	0.05	0.7
7/26/2006	19:30:00	29.73	0.04	0.7
7/26/2006	19:45:00	29.62	0.04	0.7
7/26/2006	20:00:00	29.50	0.04	0.7
7/26/2006	20:15:00	29.34	0.05	0.7
7/26/2006	20:30:00	29.14	0.05	0.7
7/26/2006	20:45:00	28.94	0.05	0.7
7/26/2006	21:00:00	28.72	0.05	0.7
7/26/2006	21:15:00	28.52	0.05	0.7
7/26/2006	21:30:00	28.33	0.05	0.7
7/26/2006	21:45:00	28.12	0.05	0.8
7/26/2006	22:00:00	27.92	0.05	0.8
7/26/2006	22:15:00	27.70	0.05	0.8
7/26/2006	22:30:00	27.50	0.05	0.8
7/26/2006	22:45:00	27.29	0.05	0.8
7/26/2006	23:00:00	27.10	0.05	0.8
7/26/2006	23:15:00	26.88	0.05	0.8
7/26/2006	23:30:00	26.67	0.05	0.8
7/26/2006	23:45:00	26.51	0.06	0.8
7/27/2006	0:00:00	26.39	0.06	0.8
7/27/2006	0:15:00	26.31	0.06	0.8
7/27/2006	0:30:00	26.20	0.06	0.8
7/27/2006	0:45:00	26.06	0.06	0.8
7/27/2006	1:00:00	25.91	0.06	0.8
7/27/2006	1:15:00	25.76	0.06	0.8
7/27/2006	1:30:00	25.64	0.06	0.8
7/27/2006	1:45:00	25.56	0.06	0.9
7/27/2006	2:00:00	25.51	0.06	0.9
7/27/2006	2:15:00	25.46	0.06	0.9
7/27/2006	2:30:00	25.38	0.06	0.9
7/27/2006	2:45:00	25.29	0.06	0.8
7/27/2006	3:00:00	25.20	0.06	0.8
7/27/2006	3:15:00	25.10	0.06	0.8
7/27/2006	3:30:00	25.00	0.06	0.8
7/27/2006	3:45:00	24.90	0.06	0.8
7/27/2006	4:00:00	24.78	0.06	0.8
7/27/2006	4:15:00	24.63	0.06	0.8
7/27/2006	4:30:00	24.45	0.06	0.8
7/27/2006	4:45:00	24.29	0.06	0.8
7/27/2006	5:00:00	24.10	0.06	0.8
7/27/2006	5:15:00	23.92	0.06	0.9
7/27/2006	5:30:00	23.76	0.06	0.8
7/27/2006	5:45:00	23.61	0.06	0.9

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/27/2006	6:00:00	23.45	0.06	0.9
7/27/2006	6:15:00	23.34	0.06	0.9
7/27/2006	6:30:00	23.25	0.06	0.9
7/27/2006	6:45:00	23.17	0.06	0.9
7/27/2006	7:00:00	23.11	0.06	0.9
7/27/2006	7:15:00	23.05	0.06	0.9
7/27/2006	7:30:00	23.01	0.06	0.9
7/27/2006	7:45:00	22.99	0.06	0.9
7/27/2006	8:00:00	23.00	0.06	0.9
7/27/2006	8:15:00	23.02	0.06	0.9
7/27/2006	8:30:00	23.07	0.06	0.9
7/27/2006	8:45:00	23.14	0.06	0.9
7/27/2006	9:00:00	23.23	0.06	0.9
7/27/2006	9:15:00	23.30	0.06	0.9
7/27/2006	9:30:00	23.39	0.06	0.9
7/27/2006	9:45:00	23.48	0.06	0.9
7/27/2006	10:00:00	23.56	0.06	0.9
7/27/2006	10:15:00	23.67	0.07	0.9
7/27/2006	10:30:00	23.81	0.07	0.9
7/27/2006	10:45:00	23.94	0.06	0.9
7/27/2006	11:00:00	24.10	0.06	0.8
7/27/2006	11:15:00	24.29	0.05	0.8
7/27/2006	11:30:00	24.52	0.05	0.8
7/27/2006	11:45:00	24.73	0.05	0.8
7/27/2006	12:00:00	24.92	0.05	0.8
7/27/2006	12:15:00	25.17	0.05	0.7
7/27/2006	12:30:00	25.50	0.05	0.7
7/27/2006	12:45:00	25.80	0.05	0.7
7/27/2006	13:00:00	26.07	0.05	0.7
7/27/2006	13:15:00	26.36	0.05	0.7
7/27/2006	13:30:00	26.74	0.05	0.7
7/27/2006	13:45:00	27.12	0.05	0.7
7/27/2006	14:00:00	27.42	0.05	0.7
7/27/2006	14:15:00	27.71	0.05	0.7
7/27/2006	14:30:00	28.01	0.04	0.7
7/27/2006	14:45:00	28.34	0.04	0.7
7/27/2006	15:00:00	28.66	0.05	0.8
7/27/2006	15:15:00	28.95	0.04	0.7
7/27/2006	15:30:00	29.25	0.04	0.6
7/27/2006	15:45:00	29.52	0.04	0.6
7/27/2006	16:00:00	29.73	0.04	0.6
7/27/2006	16:15:00	29.92	0.04	0.6
7/27/2006	16:30:00	30.05	0.04	0.6
7/27/2006	16:45:00	30.12	0.04	0.6
7/27/2006	17:00:00	30.02	0.04	0.7
7/27/2006	17:15:00	29.79	0.05	0.7
7/27/2006	17:30:00	29.50	0.06	0.9

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/27/2006	17:45:00	29.20	0.07	1.1
7/27/2006	18:00:00	28.87	0.11	1.6
7/27/2006	18:15:00	28.54	0.12	1.8
7/27/2006	18:30:00	28.24	0.1	1.6
7/27/2006	18:45:00	27.96	0.07	1.1
7/27/2006	19:00:00	27.73	0.06	0.9
7/27/2006	19:15:00	27.57	0.05	0.8
7/27/2006	19:30:00	27.43	0.05	0.8
7/27/2006	19:45:00	27.34	0.05	0.8
7/27/2006	20:00:00	27.24	0.06	0.8
7/27/2006	20:15:00	27.14	0.06	0.9
7/27/2006	20:30:00	26.97	0.06	0.9
7/27/2006	20:45:00	26.77	0.06	0.9
7/27/2006	21:00:00	26.55	0.07	1.0
7/27/2006	21:15:00	26.34	0.07	1.1
7/27/2006	21:30:00	26.14	0.08	1.1
7/27/2006	21:45:00	25.93	0.08	1.2
7/27/2006	22:00:00	25.74	0.08	1.2
7/27/2006	22:15:00	25.58	0.08	1.1
7/27/2006	22:30:00	25.39	0.07	1.0
7/27/2006	22:45:00	25.21	0.07	1.0
7/27/2006	23:00:00	25.04	0.07	1.0
7/27/2006	23:15:00	24.86	0.07	1.0
7/27/2006	23:30:00	24.68	0.07	1.0
7/27/2006	23:45:00	24.53	0.07	1.1
7/28/2006	0:00:00	24.41	0.08	1.1
7/28/2006	0:15:00	24.30	0.09	1.3
7/28/2006	0:30:00	24.20	0.09	1.4
7/28/2006	0:45:00	24.09	0.09	1.3
7/28/2006	1:00:00	23.97	0.09	1.3
7/28/2006	1:15:00	23.86	0.09	1.3
7/28/2006	1:30:00	23.74	0.1	1.4
7/28/2006	1:45:00	23.64	0.11	1.6
7/28/2006	2:00:00	23.53	0.12	1.7
7/28/2006	2:15:00	23.44	0.11	1.5
7/28/2006	2:30:00	23.36	0.09	1.3
7/28/2006	2:45:00	23.27	0.08	1.1
7/28/2006	3:00:00	23.18	0.07	1.0
7/28/2006	3:15:00	23.09	0.07	1.0
7/28/2006	3:30:00	23.03	0.07	0.9
7/28/2006	3:45:00	22.94	0.06	0.9
7/28/2006	4:00:00	22.84	0.06	0.9
7/28/2006	4:15:00	22.72	0.07	0.9
7/28/2006	4:30:00	22.60	0.07	0.9
7/28/2006	4:45:00	22.47	0.08	1.0
7/28/2006	5:00:00	22.34	0.09	1.2
7/28/2006	5:15:00	22.23	0.11	1.5

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/28/2006	5:30:00	22.11	0.14	1.9
7/28/2006	5:45:00	22.00	0.15	2.1
7/28/2006	6:00:00	21.90	0.17	2.3
7/28/2006	6:15:00	21.77	0.17	2.3
7/28/2006	6:30:00	21.67	0.18	2.4
7/28/2006	6:45:00	21.56	0.19	2.5
7/28/2006	7:00:00	21.46	0.2	2.8
7/28/2006	7:15:00	21.37	0.23	3.1
7/28/2006	7:30:00	21.29	0.27	3.6
7/28/2006	7:45:00	21.23	0.32	4.4
7/28/2006	8:00:00	21.20	0.37	5.1
7/28/2006	8:15:00	21.19	0.41	5.5
7/28/2006	8:30:00	21.21	0.42	5.6
7/28/2006	8:45:00	21.24	0.41	5.6
7/28/2006	9:00:00	21.28	0.41	5.5
7/28/2006	9:15:00	21.35	0.41	5.5
7/28/2006	9:30:00	21.42	0.37	5.0
7/28/2006	9:45:00	21.53	0.29	3.9
7/28/2006	10:00:00	21.71	0.18	2.5
7/28/2006	10:15:00	21.95	0.09	1.3
7/28/2006	10:30:00	22.26	0.07	0.9
7/28/2006	10:45:00	22.63	0.06	0.9
7/28/2006	11:00:00	22.96	0.07	1.0
7/28/2006	11:15:00	23.30	0.1	1.4
7/28/2006	11:30:00	23.58	0.13	1.8
7/28/2006	11:45:00	23.77	0.15	2.1
7/28/2006	12:00:00	24.01	0.16	2.3
7/28/2006	12:15:00	24.25	0.18	2.6
7/28/2006	12:30:00	24.50	0.19	2.7
7/28/2006	12:45:00	24.82	0.18	2.6
7/28/2006	13:00:00	25.13	0.16	2.4
7/28/2006	13:15:00	25.43	0.15	2.2
7/28/2006	13:30:00	25.66	0.13	2.0
7/28/2006	13:45:00	25.89	0.11	1.7
7/28/2006	14:00:00	26.15	0.09	1.3
7/28/2006	14:15:00	26.52	0.08	1.2
7/28/2006	14:30:00	26.86	0.08	1.3
7/28/2006	14:45:00	27.19	0.1	1.5
7/28/2006	15:00:00	27.52	0.11	1.7
7/28/2006	15:15:00	27.86	0.11	1.6
7/28/2006	15:30:00	28.11	0.09	1.4
7/28/2006	15:45:00	28.18	0.08	1.3
7/28/2006	16:00:00	28.04	0.08	1.2
7/28/2006	16:15:00	27.57	0.07	1.1
7/28/2006	16:30:00	26.89	0.07	1.1
7/28/2006	16:45:00	26.12	0.11	1.6
7/28/2006	17:00:00	25.48	0.27	4.0

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/28/2006	17:15:00	24.99	0.63	9.2
7/28/2006	17:30:00	24.73	0.75	10.8
7/28/2006	17:45:00	24.65	0.68	9.9
7/28/2006	18:00:00	24.69	0.57	8.2
7/28/2006	18:15:00	24.74	3.8	55.0
7/28/2006	18:30:00	24.72	4.66	67.4
7/28/2006	18:45:00	24.56	3.02	43.5
7/28/2006	19:00:00	24.34	2.05	29.4
7/28/2006	19:15:00	24.12	1.39	19.9
7/28/2006	19:30:00	23.97	1.13	16.0
7/28/2006	19:45:00	23.94	0.94	13.3
7/28/2006	20:00:00	23.96	0.68	9.7
7/28/2006	20:15:00	23.94	0.48	6.8
7/28/2006	20:30:00	23.91	0.79	11.2
7/28/2006	20:45:00	23.85	1.1	15.6
7/28/2006	21:00:00	23.78	1.22	17.3
7/28/2006	21:15:00	23.70	2.04	28.9
7/28/2006	21:30:00	23.61	2.54	36.0
7/28/2006	21:45:00	23.57	2.25	31.9
7/28/2006	22:00:00	23.55	2.1	29.7
7/28/2006	22:15:00	23.55	2.16	30.6
7/28/2006	22:30:00	23.56	2.08	29.4
7/28/2006	22:45:00	23.57	2.04	28.9
7/28/2006	23:00:00	23.59	1.85	26.1
7/28/2006	23:15:00	23.59	1.58	22.4
7/28/2006	23:30:00	23.58	1.41	19.9
7/28/2006	23:45:00	23.55	1.3	18.4
7/29/2006	0:00:00	23.51	1.22	17.2
7/29/2006	0:15:00	23.47	1.19	16.7
7/29/2006	0:30:00	23.42	1.15	16.3
7/29/2006	0:45:00	23.37	1	14.1
7/29/2006	1:00:00	23.30	0.81	11.4
7/29/2006	1:15:00	23.23	0.71	10.0
7/29/2006	1:30:00	23.13	0.73	10.2
7/29/2006	1:45:00	23.01	0.75	10.5
7/29/2006	2:00:00	22.88	0.67	9.4
7/29/2006	2:15:00	22.75	0.59	8.2
7/29/2006	2:30:00	22.67	0.62	8.6
7/29/2006	2:45:00	22.61	0.63	8.7
7/29/2006	3:00:00	22.54	0.62	8.6
7/29/2006	3:15:00	22.47	0.77	10.6
7/29/2006	3:30:00	22.41	0.91	12.6
7/29/2006	3:45:00	22.35	1	13.8
7/29/2006	4:00:00	22.29	1.05	14.4
7/29/2006	4:15:00	22.22	1.09	15.0
7/29/2006	4:30:00	22.17	1.1	15.2
7/29/2006	4:45:00	22.11	1.11	15.2

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/29/2006	5:00:00	22.05	1.1	15.1
7/29/2006	5:15:00	22.00	1.11	15.2
7/29/2006	5:30:00	21.95	1.11	15.3
7/29/2006	5:45:00	21.89	1.16	15.9
7/29/2006	6:00:00	21.83	1.27	17.4
7/29/2006	6:15:00	21.79	1.36	18.6
7/29/2006	6:30:00	21.76	1.4	19.1
7/29/2006	6:45:00	21.72	1.38	18.8
7/29/2006	7:00:00	21.68	1.34	18.3
7/29/2006	7:15:00	21.64	1.31	17.9
7/29/2006	7:30:00	21.62	1.35	18.4
7/29/2006	7:45:00	21.60	2.88	39.2
7/29/2006	8:00:00	21.59	5.02	68.4
7/29/2006	8:15:00	21.60	6.38	86.9
7/29/2006	8:30:00	21.66	6.34	86.4
7/29/2006	8:45:00	21.72	6.17	84.2
7/29/2006	9:00:00	21.83	5.74	78.5
7/29/2006	9:15:00	21.89	5.46	74.7
7/29/2006	9:30:00	21.95	4.99	68.4
7/29/2006	9:45:00	22.04	4.52	62.1
7/29/2006	10:00:00	22.11	4.12	56.7
7/29/2006	10:15:00	22.28	3.82	52.7
7/29/2006	10:30:00	22.55	3.56	49.3
7/29/2006	10:45:00	22.90	3.3	46.1
7/29/2006	11:00:00	23.13	3.02	42.3
7/29/2006	11:15:00	23.26	2.74	38.6
7/29/2006	11:30:00	23.59	2.51	35.6
7/29/2006	11:45:00	23.81	2.66	37.8
7/29/2006	12:00:00	24.00	2.75	39.2
7/29/2006	12:15:00	24.10	2.88	41.1
7/29/2006	12:30:00	24.24	3.33	47.7
7/29/2006	12:45:00	24.45	3.54	50.9
7/29/2006	13:00:00	24.69	3.35	48.4
7/29/2006	13:15:00	24.88	3.03	44.0
7/29/2006	13:30:00	25.13	2.74	40.0
7/29/2006	13:45:00	25.25	2.46	36.0
7/29/2006	14:00:00	25.22	2.19	32.0
7/29/2006	14:15:00	25.11	1.95	28.4
7/29/2006	14:30:00	25.03	1.86	27.0
7/29/2006	14:45:00	24.96	1.98	28.8
7/29/2006	15:00:00	24.91	2.04	29.6
7/29/2006	15:15:00	24.85	2.02	29.2
7/29/2006	15:30:00	24.80	1.97	28.6
7/29/2006	15:45:00	24.81	1.98	28.6
7/29/2006	16:00:00	24.92	2.1	30.4
7/29/2006	16:15:00	25.11	2.21	32.2
7/29/2006	16:30:00	25.27	2.23	32.5

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/29/2006	16:45:00	25.39	2.47	36.2
7/29/2006	17:00:00	25.49	2.87	42.1
7/29/2006	17:15:00	25.54	3.1	45.6
7/29/2006	17:30:00	25.50	3.4	50.0
7/29/2006	17:45:00	25.37	3.75	54.8
7/29/2006	18:00:00	25.22	4.21	61.4
7/29/2006	18:15:00	25.11	4.65	67.7
7/29/2006	18:30:00	25.02	4.88	71.0
7/29/2006	18:45:00	24.95	4.8	69.6
7/29/2006	19:00:00	24.90	4.63	67.2
7/29/2006	19:15:00	24.85	4.59	66.5
7/29/2006	19:30:00	24.80	4.54	65.7
7/29/2006	19:45:00	24.76	4.88	70.6
7/29/2006	20:00:00	24.68	5.28	76.3
7/29/2006	20:15:00	24.61	5.41	78.0
7/29/2006	20:30:00	24.53	5.04	72.7
7/29/2006	20:45:00	24.45	4.52	65.0
7/29/2006	21:00:00	24.38	4.11	59.0
7/29/2006	21:15:00	24.32	3.91	56.1
7/29/2006	21:30:00	24.28	3.99	57.2
7/29/2006	21:45:00	24.22	4.18	59.9
7/29/2006	22:00:00	24.17	4.22	60.4
7/29/2006	22:15:00	24.12	4.25	60.8
7/29/2006	22:30:00	24.07	4.31	61.6
7/29/2006	22:45:00	24.01	4.26	60.7
7/29/2006	23:00:00	23.95	4.08	58.2
7/29/2006	23:15:00	23.88	3.82	54.4
7/29/2006	23:30:00	23.81	3.57	50.7
7/29/2006	23:45:00	23.74	3.32	47.1
7/30/2006	0:00:00	23.65	3.1	44.0
7/30/2006	0:15:00	23.55	2.91	41.2
7/30/2006	0:30:00	23.47	2.75	38.8
7/30/2006	0:45:00	23.40	2.71	38.3
7/30/2006	1:00:00	23.35	3.02	42.5
7/30/2006	1:15:00	23.27	3.5	49.2
7/30/2006	1:30:00	23.20	4.06	57.0
7/30/2006	1:45:00	23.14	4.12	57.8
7/30/2006	2:00:00	23.07	4.01	56.1
7/30/2006	2:15:00	23.01	3.88	54.3
7/30/2006	2:30:00	22.94	3.72	52.0
7/30/2006	2:45:00	22.87	3.55	49.5
7/30/2006	3:00:00	22.80	3.37	47.0
7/30/2006	3:15:00	22.74	3.22	44.8
7/30/2006	3:30:00	22.67	3.09	42.9
7/30/2006	3:45:00	22.61	2.96	41.1
7/30/2006	4:00:00	22.54	2.84	39.4
7/30/2006	4:15:00	22.48	2.73	37.9

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/30/2006	4:30:00	22.41	2.65	36.6
7/30/2006	4:45:00	22.34	2.58	35.7
7/30/2006	5:00:00	22.29	2.53	34.9
7/30/2006	5:15:00	22.24	2.48	34.2
7/30/2006	5:30:00	22.18	2.45	33.7
7/30/2006	5:45:00	22.13	2.43	33.4
7/30/2006	6:00:00	22.07	2.43	33.5
7/30/2006	6:15:00	22.02	2.45	33.6
7/30/2006	6:30:00	21.99	2.46	33.7
7/30/2006	6:45:00	21.94	2.45	33.6
7/30/2006	7:00:00	21.90	2.45	33.5
7/30/2006	7:15:00	21.86	2.44	33.4
7/30/2006	7:30:00	21.83	2.43	33.3
7/30/2006	7:45:00	21.81	2.43	33.2
7/30/2006	8:00:00	21.82	2.43	33.2
7/30/2006	8:15:00	21.85	2.42	33.1
7/30/2006	8:30:00	21.87	2.43	33.2
7/30/2006	8:45:00	21.96	2.43	33.3
7/30/2006	9:00:00	22.10	2.43	33.4
7/30/2006	9:15:00	22.20	2.43	33.5
7/30/2006	9:30:00	22.24	2.43	33.5
7/30/2006	9:45:00	22.29	2.43	33.6
7/30/2006	10:00:00	22.36	2.43	33.6
7/30/2006	10:15:00	22.53	2.43	33.7
7/30/2006	10:30:00	22.89	2.41	33.7
7/30/2006	10:45:00	23.19	2.4	33.7
7/30/2006	11:00:00	23.61	2.37	33.6
7/30/2006	11:15:00	24.11	2.35	33.5
7/30/2006	11:30:00	24.54	2.32	33.4
7/30/2006	11:45:00	24.87	2.29	33.2
7/30/2006	12:00:00	25.22	2.27	33.1
7/30/2006	12:15:00	25.56	2.24	32.8
7/30/2006	12:30:00	25.88	2.2	32.5
7/30/2006	12:45:00	26.15	2.16	32.1
7/30/2006	13:00:00	26.48	2.12	31.7
7/30/2006	13:15:00	26.75	2.08	31.2
7/30/2006	13:30:00	27.12	2.03	30.7
7/30/2006	13:45:00	27.48	1.98	30.1
7/30/2006	14:00:00	27.79	1.93	29.5
7/30/2006	14:15:00	28.11	1.88	28.9
7/30/2006	14:30:00	28.38	1.82	28.1
7/30/2006	14:45:00	28.66	1.76	27.3
7/30/2006	15:00:00	28.91	1.68	26.3
7/30/2006	15:15:00	29.11	1.6	25.0
7/30/2006	15:30:00	29.32	1.52	23.9
7/30/2006	15:45:00	29.45	1.45	22.9
7/30/2006	16:00:00	29.44	1.41	22.3

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/30/2006	16:15:00	29.54	1.38	21.8
7/30/2006	16:30:00	29.59	1.36	21.5
7/30/2006	16:45:00	29.61	1.35	21.3
7/30/2006	17:00:00	29.51	1.34	21.2
7/30/2006	17:15:00	29.41	1.34	21.1
7/30/2006	17:30:00	29.32	1.34	21.1
7/30/2006	17:45:00	29.20	1.34	21.0
7/30/2006	18:00:00	29.03	1.34	20.9
7/30/2006	18:15:00	28.81	1.34	20.9
7/30/2006	18:30:00	28.63	1.35	21.0
7/30/2006	18:45:00	28.44	1.36	21.1
7/30/2006	19:00:00	28.27	1.38	21.3
7/30/2006	19:15:00	28.11	1.39	21.4
7/30/2006	19:30:00	27.91	1.41	21.6
7/30/2006	19:45:00	27.67	1.44	22.0
7/30/2006	20:00:00	27.43	1.48	22.5
7/30/2006	20:15:00	27.19	1.53	23.2
7/30/2006	20:30:00	27.00	1.58	23.8
7/30/2006	20:45:00	26.81	1.61	24.3
7/30/2006	21:00:00	26.66	1.65	24.7
7/30/2006	21:15:00	26.50	1.68	25.1
7/30/2006	21:30:00	26.33	1.71	25.5
7/30/2006	21:45:00	26.15	1.75	26.0
7/30/2006	22:00:00	25.95	1.8	26.6
7/30/2006	22:15:00	25.76	1.84	27.1
7/30/2006	22:30:00	25.54	1.88	27.7
7/30/2006	22:45:00	25.34	1.93	28.3
7/30/2006	23:00:00	25.12	1.99	29.0
7/30/2006	23:15:00	24.93	2.04	29.6
7/30/2006	23:30:00	24.76	2.08	30.2
7/30/2006	23:45:00	24.61	2.12	30.6
7/31/2006	0:00:00	24.47	2.16	31.1
7/31/2006	0:15:00	24.35	2.21	31.7
7/31/2006	0:30:00	24.26	2.26	32.3
7/31/2006	0:45:00	24.17	2.3	33.0
7/31/2006	1:00:00	24.08	2.35	33.5
7/31/2006	1:15:00	23.98	2.38	34.0
7/31/2006	1:30:00	23.86	2.41	34.3
7/31/2006	1:45:00	23.76	2.45	34.7
7/31/2006	2:00:00	23.66	2.48	35.2
7/31/2006	2:15:00	23.58	2.51	35.6
7/31/2006	2:30:00	23.53	2.55	36.0
7/31/2006	2:45:00	23.45	2.57	36.3
7/31/2006	3:00:00	23.37	2.59	36.5
7/31/2006	3:15:00	23.30	2.61	36.8
7/31/2006	3:30:00	23.22	2.64	37.1
7/31/2006	3:45:00	23.16	2.68	37.7

Table 5.3. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; **, probe improperly deployed, oxygen data inaccurate; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/31/2006	4:00:00	23.10	2.73	38.3
7/31/2006	4:15:00	23.02	2.8	39.1
7/31/2006	4:30:00	22.94	2.87	40.1
7/31/2006	4:45:00	22.86	2.94	41.1
7/31/2006	5:00:00	22.77	3.02	42.1
7/31/2006	5:15:00	22.68	3.44	47.8
7/31/2006	5:30:00	22.60	4.14	57.5
7/31/2006	5:45:00	22.50	4.67	64.7
7/31/2006	6:00:00	22.43	5.07	70.1
7/31/2006	6:15:00	22.39	5.35	74.0
7/31/2006	6:30:00	22.34	5.5	75.9
7/31/2006	6:45:00	22.29	5.59	77.2
7/31/2006	7:00:00	22.27	5.66	78.0
7/31/2006	7:15:00	22.24	5.71	78.7
7/31/2006	7:30:00	22.22	5.76	79.4
7/31/2006	7:45:00	22.22	5.81	80.0
7/31/2006	8:00:00	22.19	5.84	80.5
7/31/2006	8:15:00	22.17	5.86	80.6
7/31/2006	8:30:00	22.19	5.86	80.8
7/31/2006	8:45:00	22.21	5.88	81.1
7/31/2006	9:00:00	22.27	5.87	81.0
7/31/2006	9:15:00	22.37	5.84	80.7
7/31/2006	9:30:00	22.53	5.84	81.0
7/31/2006	9:45:00	22.81	5.8	80.8
7/31/2006	10:00:00	23.16	5.78	81.1
7/31/2006	10:15:00	23.00	6.92	96.8

Table 5.4. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:15:46
Report from file:	...\SN45473 2006-07-17 130000 Site4-7-17-06.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45473	
Firmware Version	1.58	
Unit name:	Troll 9000	nike
Barometric Pressure:	636.501	
Test defined on:	7/17/2006	2:09:02
Test scheduled for:	7/17/2006	13:00:00
Test started on:	7/17/2006	13:00:00
Test stopped on:	7/31/2006	15:30:09
Data gathered using linear testing		
Time between data points	900	
Number of data samples:	365	

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
7/17/2006	16:15:00	38.4	6.12	112.7
7/17/2006	16:30:00	37.9	6.13	111.9
7/17/2006	16:45:00	35.7	6.04	106.3
7/17/2006	17:00:00	35.8	6.18	108.9
7/17/2006	17:15:00	36.0	7.08	125.1
7/17/2006	17:30:00	36.1	7.20	127.5
7/17/2006	17:45:00	36.0	7.18	126.8
7/17/2006	18:00:00	35.9	7.15	126.2
7/17/2006	18:15:00	35.9	7.12	125.5
7/17/2006	18:30:00	35.6	7.07	124.0
7/17/2006	18:45:00	35.2	7.01	122.3
7/17/2006	19:00:00	35.0	6.96	121.0
7/17/2006	19:15:00	34.6	6.92	119.4
7/17/2006	19:30:00	34.3	6.87	117.8
7/17/2006	19:45:00	33.9	6.82	116.4
7/17/2006	20:00:00	33.6	6.77	114.9
7/17/2006	20:15:00	33.2	6.71	113.1
7/17/2006	20:30:00	33.0	6.67	112.0
7/17/2006	20:45:00	32.5	6.60	109.8
7/17/2006	21:00:00	32.2	6.54	108.2
7/17/2006	21:15:00	32.0	6.50	107.1
7/17/2006	21:30:00	31.4	6.43	105.0
7/17/2006	21:45:00	31.1	6.41	104.2
7/17/2006	22:00:00	30.8	6.38	103.1
7/17/2006	22:15:00	30.5	6.38	102.5
7/17/2006	22:30:00	30.1	6.38	101.9
7/17/2006	22:45:00	29.9	6.38	101.3
7/17/2006	23:00:00	29.6	6.40	101.1
7/17/2006	23:15:00	29.2	6.41	100.7

Table 5.4. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/17/2006	23:30:00	29.0	6.43	100.6
7/17/2006	23:45:00	28.8	6.46	100.7
7/17/2006	0:00:00	28.4	6.48	100.3
7/17/2006	0:15:00	28.0	6.51	100.0
7/17/2006	0:30:00	27.8	6.53	100.1
7/17/2006	0:45:00	27.6	6.57	100.1
7/18/2006	1:00:00	27.3	6.59	100.0
7/18/2006	1:15:00	27.1	6.62	99.9
7/18/2006	1:30:00	26.8	6.64	99.8
7/18/2006	1:45:00	26.6	6.67	100.0
7/18/2006	2:00:00	26.4	6.70	100.1
7/18/2006	2:15:00	26.2	6.73	100.1
7/18/2006	2:30:00	26.1	6.76	100.2
7/18/2006	2:45:00	25.9	6.79	100.3
7/18/2006	3:00:00	25.7	6.80	100.3
7/18/2006	3:15:00	25.6	6.83	100.4
7/18/2006	3:30:00	25.4	6.86	100.3
7/18/2006	3:45:00	25.2	6.86	100.1
7/18/2006	4:00:00	25.0	6.90	100.4
7/18/2006	4:15:00	24.9	6.92	100.4
7/18/2006	4:30:00	24.8	6.89	99.8
7/18/2006	4:45:00	24.6	6.96	100.5
7/18/2006	5:00:00	24.5	6.98	100.5
7/18/2006	5:15:00	24.4	7.00	100.6
7/18/2006	5:30:00	24.3	7.00	100.4
7/18/2006	5:45:00	24.2	7.04	100.7
7/18/2006	6:00:00	24.1	7.05	100.8
7/18/2006	6:15:00	24.0	7.06	100.7
7/18/2006	6:30:00	23.9	7.08	100.7
7/18/2006	6:45:00	23.8	7.07	100.4
7/18/2006	7:00:00	23.7	7.09	100.5
7/18/2006	7:15:00	23.6	7.10	100.4
7/18/2006	7:30:00	23.5	7.12	100.6
7/18/2006	7:45:00	23.4	7.14	100.8
7/18/2006	8:00:00	23.4	7.16	100.9
7/18/2006	8:15:00	23.4	7.19	101.3
7/18/2006	8:30:00	23.4	7.20	101.5
7/18/2006	8:45:00	23.3	7.23	101.9
7/18/2006	9:00:00	23.3	7.26	102.1
7/18/2006	9:15:00	23.3	7.27	102.2
7/18/2006	9:30:00	23.2	7.27	102.2
7/18/2006	9:45:00	23.2	7.29	102.4
7/18/2006	10:00:00	23.1	7.30	102.4
7/18/2006	10:15:00	23.1	7.32	102.7
7/18/2006	10:30:00	23.2	7.36	103.2
7/18/2006	10:45:00	23.2	7.39	103.7
7/18/2006	11:00:00	23.2	7.43	104.3

Table 5.4. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/18/2006	11:15:00	23.3	7.45	104.7
7/18/2006	11:30:00	23.3	7.44	104.6
7/18/2006	11:45:00	23.4	7.51	105.9
7/18/2006	12:00:00	23.5	7.53	106.4
7/18/2006	12:15:00	23.6	7.54	106.8
7/18/2006	12:30:00	23.8	7.56	107.5
7/18/2006	12:45:00	24.1	7.61	108.7
7/18/2006	13:00:00	24.4	7.63	109.6
7/18/2006	13:15:00	24.9	7.66	111.1
7/18/2006	13:30:00	25.4	7.68	112.4
7/18/2006	13:45:00	26.2	7.70	114.5
7/18/2006	14:00:00	27.0	7.67	115.6
7/18/2006	14:15:00	27.4	7.66	116.4
7/18/2006	14:30:00	28.2	7.67	118.3
7/18/2006	14:45:00	28.9	7.64	119.3
7/18/2006	15:00:00	29.8	7.61	120.8
7/18/2006	15:15:00	30.5	7.59	121.8
7/18/2006	15:30:00	30.9	7.53	121.7
7/18/2006	15:45:00	31.2	7.48	121.8
7/18/2006	16:00:00	31.8	7.46	122.8
7/18/2006	16:15:00	32.2	7.41	122.7
7/18/2006	16:30:00	32.4	7.37	122.5
7/18/2006	16:45:00	32.6	7.35	122.5
7/18/2006	17:00:00	32.6	7.31	121.9
7/18/2006	17:15:00	32.9	7.29	122.2
7/18/2006	17:30:00	33.2	7.29	122.7
7/18/2006	17:45:00	33.5	7.28	123.2
7/18/2006	18:00:00	33.6	7.28	123.5
7/18/2006	18:15:00	33.7	7.27	123.6
7/18/2006	18:30:00	33.8	7.25	123.4
7/18/2006	18:45:00	33.8	7.22	123.0
7/18/2006	19:00:00	33.8	7.17	122.0
7/18/2006	19:15:00	33.5	7.13	120.8
7/18/2006	19:30:00	33.5	7.07	119.6
7/18/2006	19:45:00	33.0	6.99	117.4
7/18/2006	20:00:00	32.2	6.89	114.1
7/18/2006	20:15:00	31.8	6.83	112.4
7/18/2006	20:30:00	31.0	6.75	109.3
7/18/2006	20:45:00	30.4	6.69	107.4
7/18/2006	21:00:00	30.2	6.64	106.3
7/18/2006	21:15:00	29.9	6.59	104.8
7/18/2006	21:30:00	29.6	6.53	103.2
7/18/2006	21:45:00	29.3	6.52	102.6
7/18/2006	22:00:00	29.0	6.50	101.7
7/18/2006	22:15:00	28.5	6.50	100.9
7/18/2006	22:30:00	28.3	6.52	100.7
7/18/2006	22:45:00	28.0	6.54	100.5

Table 5.4. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/18/2006	23:00:00	27.8	6.56	100.5
7/18/2006	23:15:00	27.4	6.56	99.6
7/18/2006	23:30:00	27.2	6.58	99.5
7/18/2006	23:45:00	26.7	6.64	99.7
7/18/2006	0:00:00	26.5	6.67	99.7
7/18/2006	0:15:00	26.1	6.72	99.7
7/18/2006	0:30:00	25.7	6.76	99.6
7/18/2006	0:45:00	25.5	6.83	100.1
7/19/2006	1:00:00	25.2	6.83	99.7
7/19/2006	1:15:00	25.0	6.88	100.0
7/19/2006	1:30:00	25.0	6.90	100.2
7/19/2006	1:45:00	24.9	6.90	100.1
7/19/2006	2:00:00	24.8	6.92	100.2
7/19/2006	2:15:00	24.7	6.94	100.2
7/19/2006	2:30:00	24.5	6.96	100.2
7/19/2006	2:45:00	24.4	6.99	100.4
7/19/2006	3:00:00	24.2	7.01	100.3
7/19/2006	3:15:00	24.0	7.01	100.0
7/19/2006	3:30:00	23.8	7.06	100.4
7/19/2006	3:45:00	23.8	7.07	100.5
7/19/2006	4:00:00	23.7	7.10	100.7
7/19/2006	4:15:00	23.6	7.12	100.9
7/19/2006	4:30:00	23.5	7.12	100.7
7/19/2006	4:45:00	23.4	7.15	100.8
7/19/2006	5:00:00	23.4	7.18	101.1
7/19/2006	5:15:00	23.3	7.17	100.9
7/19/2006	5:30:00	23.2	7.18	100.8
7/19/2006	5:45:00	23.1	7.20	101.0
7/19/2006	6:00:00	23.0	7.21	101.0
7/19/2006	6:15:00	22.9	7.22	100.9
7/19/2006	6:30:00	22.9	7.22	100.7
7/19/2006	6:45:00	22.8	7.24	101.0
7/19/2006	7:00:00	22.8	7.26	101.1
7/19/2006	7:15:00	22.6	7.28	101.1
7/19/2006	7:30:00	22.6	7.28	101.1
7/19/2006	7:45:00	22.6	7.29	101.2
7/19/2006	8:00:00	22.6	7.31	101.5
7/19/2006	8:15:00	22.6	7.35	102.1
7/19/2006	8:30:00	22.7	7.41	103.1
7/19/2006	8:45:00	22.8	7.44	103.7
7/19/2006	9:00:00	22.9	7.48	104.4
7/19/2006	9:15:00	23.0	7.49	105.0
7/19/2006	9:30:00	23.4	7.54	106.3
7/19/2006	9:45:00	23.7	7.57	107.3
7/19/2006	10:00:00	24.0	7.59	108.3
7/19/2006	10:15:00	24.4	7.55	108.5
7/19/2006	10:30:00	25.0	7.59	110.3

Table 5.4. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/19/2006	10:45:00	25.3	7.61	111.3
7/19/2006	11:00:00	25.5	7.60	111.5
7/19/2006	11:15:00	25.9	7.60	112.3
7/19/2006	11:30:00	27.0	7.62	114.8
7/19/2006	11:45:00	27.5	7.61	115.7
7/19/2006	12:00:00	28.2	7.59	117.0
7/19/2006	12:15:00	28.4	7.53	116.5
7/19/2006	12:30:00	29.0	7.56	118.2
7/19/2006	12:45:00	29.5	7.54	119.0
7/19/2006	13:00:00	30.0	7.50	119.5
7/19/2006	13:15:00	30.7	7.51	121.1
7/19/2006	13:30:00	31.3	7.48	122.0
7/19/2006	13:45:00	31.7	7.46	122.4
7/19/2006	14:00:00	32.4	7.45	123.8
7/19/2006	14:15:00	32.8	7.42	124.0
7/19/2006	14:30:00	33.5	7.42	125.7
7/19/2006	14:45:00	33.8	7.39	125.9
7/19/2006	15:00:00	34.2	7.35	126.0
7/19/2006	15:15:00	34.8	7.33	126.8
7/19/2006	15:30:00	35.2	7.28	127.0
7/19/2006	15:45:00	35.7	7.32	128.7
7/19/2006	16:00:00	36.1	7.26	128.4
7/19/2006	16:15:00	36.3	7.26	128.9
7/19/2006	16:30:00	36.5	7.23	128.9
7/19/2006	16:45:00	36.7	7.23	129.1
7/19/2006	17:00:00	36.8	7.23	129.6
7/19/2006	17:15:00	37.0	7.24	130.0
7/19/2006	17:30:00	37.0	7.24	130.2
7/19/2006	17:45:00	37.1	7.26	130.8
7/19/2006	18:00:00	37.0	7.33	131.7
7/19/2006	18:15:00	36.9	7.33	131.5
7/19/2006	18:30:00	36.7	7.28	130.3
7/19/2006	18:45:00	36.5	7.21	128.4
7/19/2006	19:00:00	35.5	7.10	124.4
7/19/2006	19:15:00	35.0	7.05	122.5
7/19/2006	19:30:00	34.7	7.01	121.1
7/19/2006	19:45:00	34.4	7.04	121.0
7/19/2006	20:00:00	34.2	6.98	119.5
7/19/2006	20:15:00	33.5	6.94	117.6
7/19/2006	20:30:00	33.0	6.85	114.9
7/19/2006	20:45:00	32.6	6.76	112.6
7/19/2006	21:00:00	32.3	6.69	110.9
7/19/2006	21:15:00	31.9	6.56	108.0
7/19/2006	21:30:00	31.6	6.46	106.0
7/19/2006	21:45:00	31.5	6.35	103.7
7/19/2006	22:00:00	31.1	6.29	102.2
7/19/2006	22:15:00	30.8	6.23	100.7

Table 5.4. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/19/2006	22:30:00	30.4	6.18	99.1
7/19/2006	22:45:00	29.9	6.15	97.8
7/19/2006	23:00:00	29.7	6.13	97.1
7/19/2006	23:15:00	29.2	6.15	96.5
7/19/2006	23:30:00	28.8	6.15	95.9
7/19/2006	23:45:00	28.5	6.15	95.4
7/19/2006	0:00:00	28.3	6.18	95.4
7/19/2006	0:15:00	28.1	6.18	95.1
7/19/2006	0:30:00	27.7	6.21	94.9
7/19/2006	0:45:00	27.5	6.22	94.6
7/20/2006	1:00:00	27.3	6.21	94.2
7/20/2006	1:15:00	27.0	6.25	94.3
7/20/2006	1:30:00	26.8	6.28	94.4
7/20/2006	1:45:00	26.5	6.30	94.1
7/20/2006	2:00:00	26.3	6.29	93.8
7/20/2006	2:15:00	26.1	6.34	94.2
7/20/2006	2:30:00	25.9	6.34	93.7
7/20/2006	2:45:00	25.7	6.38	94.0
7/20/2006	3:00:00	25.7	6.38	94.0
7/20/2006	3:15:00	25.3	6.42	93.9
7/20/2006	3:30:00	25.2	6.44	93.8
7/20/2006	3:45:00	24.9	6.49	94.2
7/20/2006	4:00:00	24.7	6.53	94.4
7/20/2006	4:15:00	24.5	6.54	94.2
7/20/2006	4:30:00	24.3	6.56	94.2
7/20/2006	4:45:00	24.1	6.60	94.4
7/20/2006	5:00:00	24.0	6.59	94.0
7/20/2006	5:15:00	23.8	6.58	93.4
7/20/2006	5:30:00	23.6	6.63	93.9
7/20/2006	5:45:00	23.5	6.66	94.0
7/20/2006	6:00:00	23.4	6.66	93.8
7/20/2006	6:15:00	23.2	6.69	94.0
7/20/2006	6:30:00	23.1	6.71	94.0
7/20/2006	6:45:00	22.9	6.76	94.5
7/20/2006	7:00:00	22.8	6.73	93.9
7/20/2006	7:15:00	22.8	6.79	94.6
7/20/2006	7:30:00	22.5	6.85	94.9
7/20/2006	7:45:00	22.4	6.83	94.4
7/20/2006	8:00:00	22.3	6.88	95.0
7/20/2006	8:15:00	22.2	6.93	95.6
7/20/2006	8:30:00	22.2	6.98	96.3
7/20/2006	8:45:00	22.3	7.06	97.4
7/20/2006	9:00:00	22.3	7.12	98.4
7/20/2006	9:15:00	22.5	7.20	99.9
7/20/2006	9:30:00	22.8	7.23	100.9
7/20/2006	9:45:00	23.1	7.31	102.5
7/20/2006	10:00:00	23.3	7.36	103.6

Table 5.4. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/20/2006	10:15:00	23.8	7.40	105.1
7/20/2006	10:30:00	24.1	7.44	106.3
7/20/2006	10:45:00	24.7	7.47	107.9
7/20/2006	11:00:00	25.3	7.52	110.0
7/20/2006	11:15:00	25.8	7.55	111.5
7/20/2006	11:30:00	26.5	7.62	113.9
7/20/2006	11:45:00	27.2	7.61	115.2
7/20/2006	12:00:00	27.7	7.60	116.1
7/20/2006	12:15:00	28.3	7.59	117.1
7/20/2006	12:30:00	28.8	7.60	118.5
7/20/2006	12:45:00	29.5	7.62	120.3
7/20/2006	13:00:00	30.4	7.69	123.3
7/20/2006	13:15:00	30.9	7.66	124.0
7/20/2006	13:30:00	31.6	7.65	125.3
7/20/2006	13:45:00	32.0	7.62	125.7
7/20/2006	14:00:00	32.6	7.63	127.2
7/20/2006	14:15:00	32.8	7.65	127.9
7/20/2006	14:30:00	33.8	7.68	130.8
7/20/2006	14:45:00	34.2	7.65	131.2
7/20/2006	15:00:00	34.7	7.63	132.0
7/20/2006	15:15:00	35.0	7.61	132.3
7/20/2006	15:30:00	35.4	7.64	133.7
7/20/2006	15:45:00	36.0	7.74	136.9
7/20/2006	16:00:00	36.4	7.74	137.7
7/20/2006	16:15:00	36.7	7.78	139.0
7/20/2006	16:30:00	36.9	7.74	138.8
7/20/2006	16:45:00	37.1	7.75	139.6
7/20/2006	17:00:00	37.2	7.75	139.8
7/20/2006	17:15:00	37.4	7.77	140.6
7/20/2006	17:30:00	37.4	7.85	141.9
7/20/2006	17:45:00	37.3	7.89	142.6
7/20/2006	18:00:00	37.3	7.82	141.3
7/20/2006	18:15:00	37.2	7.89	142.4
7/20/2006	18:30:00	36.9	7.87	141.3
7/20/2006	18:45:00	36.7	7.86	140.4
7/20/2006	19:00:00	36.5	7.89	140.7
7/20/2006	19:15:00	36.4	7.76	138.2
7/20/2006	19:30:00	36.1	7.75	137.2
7/20/2006	19:45:00	35.5	7.76	136.1
7/20/2006	20:00:00	35.2	7.55	131.8
7/20/2006	20:15:00	34.8	7.45	129.1
7/20/2006	20:30:00	34.6	7.30	125.9
7/20/2006	20:45:00	34.0	7.05	120.4
7/20/2006	21:00:00	33.6	6.75	114.4
7/20/2006	21:15:00	32.9	6.61	110.9
7/20/2006	21:30:00	32.5	6.46	107.4
7/20/2006	21:45:00	32.1	6.24	103.1

Table 5.4. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/20/2006	22:00:00	31.8	6.14	101.0
7/20/2006	22:15:00	31.3	5.96	97.2
7/20/2006	22:30:00	30.9	5.87	95.0
7/20/2006	22:45:00	30.8	5.88	94.9
7/20/2006	23:00:00	30.1	5.82	92.9
7/20/2006	23:15:00	29.9	5.87	93.3
7/20/2006	23:30:00	29.7	5.82	92.4
7/20/2006	23:45:00	29.1	5.84	91.6
7/20/2006	0:00:00	28.7	5.87	91.3
7/20/2006	0:15:00	28.4	5.88	90.9
7/20/2006	0:30:00	28.3	5.93	91.5
7/20/2006	0:45:00	27.9	5.93	90.9
7/21/2006	1:00:00	27.3	5.94	90.2
7/21/2006	1:15:00	27.0	6.01	90.6
7/21/2006	1:30:00	26.9	6.00	90.4
7/21/2006	1:45:00	26.4	6.05	90.4
7/21/2006	2:00:00	26.1	6.12	90.8
7/21/2006	2:15:00	25.9	6.15	90.9
7/21/2006	2:30:00	25.6	6.16	90.6
7/21/2006	2:45:00	25.4	6.25	91.4
7/21/2006	3:00:00	25.3	6.31	92.2
7/21/2006	3:15:00	24.9	6.36	92.3
7/21/2006	3:30:00	24.7	6.38	92.1
7/21/2006	3:45:00	24.5	6.39	92.1
7/21/2006	4:00:00	24.3	6.44	92.5
7/21/2006	4:15:00	24.2	6.47	92.6
7/21/2006	4:30:00	24.0	6.50	92.7
7/21/2006	4:45:00	23.9	6.54	93.2
7/21/2006	5:00:00	23.8	6.58	93.5
7/21/2006	5:15:00	23.4	6.60	93.0
7/21/2006	5:30:00	23.2	6.67	93.7
7/21/2006	5:45:00	23.0	6.68	93.4
7/21/2006	6:00:00	22.8	6.71	93.5
7/21/2006	6:15:00	22.6	6.79	94.3
7/21/2006	6:30:00	22.5	6.85	94.8
7/21/2006	6:45:00	22.5	6.82	94.4
7/21/2006	7:00:00	22.2	6.80	93.8
7/21/2006	7:15:00	21.9	6.88	94.1
7/21/2006	7:30:00	21.7	6.93	94.5
7/21/2006	7:45:00	21.6	6.88	93.6
7/21/2006	8:00:00	21.5	6.96	94.5
7/21/2006	8:15:00	21.4	7.05	95.5
7/21/2006	8:30:00	21.2	7.11	96.2
7/21/2006	8:45:00	21.3	7.20	97.4
7/21/2006	9:00:00	21.4	7.23	98.1
7/21/2006	9:15:00	21.6	7.42	101.1
7/21/2006	9:30:00	21.8	7.43	101.6

Table 5.4. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/21/2006	9:45:00	22.0	7.42	101.9
7/21/2006	10:00:00	22.5	7.59	105.1
7/21/2006	10:15:00	22.8	7.64	106.4
7/21/2006	10:30:00	23.1	7.63	107.0
7/21/2006	10:45:00	23.5	7.63	107.8
7/21/2006	11:00:00	24.2	7.70	110.2
7/21/2006	11:15:00	24.8	7.73	112.0

Table 5.5. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:19:53
Report from file:	...\SN45475 2006-07-17 130000 Site5-7-17-06.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45475	
Firmware Version	1.58	
Unit name:	Troll 9000	athena
Barometric Pressure:		636.104
Test defined on:	7/17/2006	1:48:14
Test scheduled for:	7/17/2006	13:00:00
Test started on:	7/17/2006	13:00:00
Test stopped on:	7/31/2006	15:25:58
Data gathered using linear testing		
Time between data points		900 seconds
Number of data samples:		374

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
7/17/2006	13:00:00	30.4	6.74	108.2
7/17/2006	13:15:00	32.1	6.67	110.4
7/17/2006	13:30:00	27.5	6.57	100.1
7/17/2006	13:45:00	28.6	7.18	111.7
7/17/2006	14:00:00	28.9	7.20	112.4
7/17/2006	14:15:00	29.1	7.21	113.1
7/17/2006	14:30:00	29.3	7.21	113.5
7/17/2006	14:45:00	29.5	7.21	113.9
7/17/2006	15:00:00	29.8	7.20	114.5
7/17/2006	15:15:00	30.1	7.20	114.9
7/17/2006	15:30:00	30.2	7.18	115.0
7/17/2006	15:45:00	30.4	7.16	115.0
7/17/2006	16:00:00	30.5	7.14	114.9
7/17/2006	16:15:00	30.5	7.12	114.6
7/17/2006	16:30:00	30.6	7.10	114.3
7/17/2006	16:45:00	30.6	7.06	113.7
7/17/2006	17:00:00	30.5	7.03	113.1
7/17/2006	17:15:00	30.5	7.01	112.7
7/17/2006	17:30:00	30.4	6.96	111.7
7/17/2006	17:45:00	30.2	6.91	110.4
7/17/2006	18:00:00	30.0	6.86	109.4
7/17/2006	18:15:00	29.8	6.80	108.1
7/17/2006	18:30:00	29.6	6.74	106.6
7/17/2006	18:45:00	29.3	6.69	105.3
7/17/2006	19:00:00	29.1	6.64	104.1
7/17/2006	19:15:00	28.9	6.59	103.0
7/17/2006	19:30:00	28.8	6.53	101.8
7/17/2006	19:45:00	28.6	6.50	101.1
7/17/2006	20:00:00	28.5	6.45	100.1

Table 5.5. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/17/2006	20:15:00	28.3	6.40	99.0
7/17/2006	20:30:00	28.1	6.36	98.0
7/17/2006	20:45:00	28.0	6.32	97.1
7/17/2006	21:00:00	27.9	6.28	96.3
7/17/2006	21:15:00	27.7	6.24	95.5
7/17/2006	21:30:00	27.6	6.21	94.8
7/17/2006	21:45:00	27.5	6.19	94.2
7/17/2006	22:00:00	27.3	6.16	93.6
7/17/2006	22:15:00	27.2	6.14	93.0
7/17/2006	22:30:00	27.1	6.12	92.5
7/17/2006	22:45:00	27.0	6.10	92.1
7/17/2006	23:00:00	26.9	6.08	91.6
7/17/2006	23:15:00	26.8	6.07	91.2
7/17/2006	23:30:00	26.7	6.05	90.7
7/17/2006	23:45:00	26.5	6.04	90.4
7/18/2006	0:00:00	26.4	6.02	90.0
7/18/2006	0:15:00	26.3	6.01	89.6
7/18/2006	0:30:00	26.2	6.00	89.3
7/18/2006	0:45:00	26.1	6.00	89.1
7/18/2006	1:00:00	26.0	6.00	88.9
7/18/2006	1:15:00	25.9	5.99	88.7
7/18/2006	1:30:00	25.8	5.99	88.4
7/18/2006	1:45:00	25.7	6.00	88.4
7/18/2006	2:00:00	25.6	6.00	88.3
7/18/2006	2:15:00	25.4	6.01	88.2
7/18/2006	2:30:00	25.3	6.02	88.1
7/18/2006	2:45:00	25.2	6.03	88.0
7/18/2006	3:00:00	25.1	6.04	88.0
7/18/2006	3:15:00	24.9	6.05	87.9
7/18/2006	3:30:00	24.8	6.06	87.9
7/18/2006	3:45:00	24.7	6.08	87.9
7/18/2006	4:00:00	24.6	6.09	87.9
7/18/2006	4:15:00	24.5	6.10	87.9
7/18/2006	4:30:00	24.4	6.10	87.8
7/18/2006	4:45:00	24.3	6.12	87.8
7/18/2006	5:00:00	24.2	6.13	87.8
7/18/2006	5:15:00	24.1	6.15	87.8
7/18/2006	5:30:00	24.0	6.16	87.9
7/18/2006	5:45:00	23.9	6.18	87.9
7/18/2006	6:00:00	23.7	6.19	87.9
7/18/2006	6:15:00	23.6	6.22	88.1
7/18/2006	6:30:00	23.5	6.22	87.9
7/18/2006	6:45:00	23.4	6.25	88.2
7/18/2006	7:00:00	23.3	6.27	88.4
7/18/2006	7:15:00	23.3	6.31	88.8
7/18/2006	7:30:00	23.2	6.33	89.0
7/18/2006	7:45:00	23.1	6.36	89.3

Table 5.5. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/18/2006	8:00:00	23.0	6.40	89.7
7/18/2006	8:15:00	23.0	6.44	90.1
7/18/2006	8:30:00	22.9	6.48	90.6
7/18/2006	8:45:00	22.9	6.55	91.5
7/18/2006	9:00:00	22.9	6.62	92.6
7/18/2006	9:15:00	23.0	6.68	93.5
7/18/2006	9:30:00	23.0	6.74	94.4
7/18/2006	9:45:00	23.1	6.81	95.7
7/18/2006	10:00:00	23.3	6.89	96.9
7/18/2006	10:15:00	23.5	6.96	98.3
7/18/2006	10:30:00	23.8	7.02	99.9
7/18/2006	10:45:00	24.2	7.09	101.5
7/18/2006	11:00:00	24.5	7.14	102.9
7/18/2006	11:15:00	24.9	7.19	104.3
7/18/2006	11:30:00	25.2	7.22	105.5
7/18/2006	11:45:00	25.4	7.25	106.3
7/18/2006	12:00:00	25.6	7.26	106.9
7/18/2006	12:15:00	25.8	7.28	107.5
7/18/2006	12:30:00	25.9	7.28	107.8
7/18/2006	12:45:00	26.0	7.29	108.1
7/18/2006	13:00:00	26.2	7.30	108.7
7/18/2006	13:15:00	26.7	7.31	109.8
7/18/2006	13:30:00	27.2	7.33	111.0
7/18/2006	13:45:00	27.6	7.33	111.8
7/18/2006	14:00:00	28.0	7.33	112.6
7/18/2006	14:15:00	28.3	7.32	113.2
7/18/2006	14:30:00	28.6	7.32	113.7
7/18/2006	14:45:00	28.8	7.30	114.0
7/18/2006	15:00:00	29.1	7.29	114.3
7/18/2006	15:15:00	29.3	7.27	114.6
7/18/2006	15:30:00	29.6	7.26	115.0
7/18/2006	15:45:00	29.9	7.25	115.3
7/18/2006	16:00:00	30.1	7.22	115.3
7/18/2006	16:15:00	30.4	7.20	115.5
7/18/2006	16:30:00	30.6	7.18	115.7
7/18/2006	16:45:00	30.8	7.16	115.7
7/18/2006	17:00:00	30.9	7.13	115.6
7/18/2006	17:15:00	30.8	7.02	113.4
7/18/2006	17:30:00	30.3	6.87	110.1
7/18/2006	17:45:00	29.8	6.78	107.7
7/18/2006	18:00:00	29.5	6.70	105.8
7/18/2006	18:15:00	29.2	6.63	104.2
7/18/2006	18:30:00	28.9	6.57	102.7
7/18/2006	18:45:00	28.6	6.51	101.2
7/18/2006	19:00:00	28.5	6.45	100.1
7/18/2006	19:15:00	28.5	6.42	99.6
7/18/2006	19:30:00	28.4	6.38	98.8

Table 5.5. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/18/2006	19:45:00	28.2	6.34	97.9
7/18/2006	20:00:00	28.0	6.29	96.7
7/18/2006	20:15:00	27.7	6.24	95.4
7/18/2006	20:30:00	27.4	6.21	94.4
7/18/2006	20:45:00	27.0	6.13	92.5
7/18/2006	21:00:00	26.7	6.09	91.5
7/18/2006	21:15:00	26.4	6.10	91.1
7/18/2006	21:30:00	26.3	6.10	90.9
7/18/2006	21:45:00	26.1	6.11	90.8
7/18/2006	22:00:00	26.0	6.11	90.6
7/18/2006	22:15:00	25.9	6.10	90.2
7/18/2006	22:30:00	25.8	6.11	90.2
7/18/2006	22:45:00	25.7	6.13	90.3
7/18/2006	23:00:00	25.6	6.12	90.0
7/18/2006	23:15:00	25.5	6.14	90.1
7/18/2006	23:30:00	25.4	6.15	90.1
7/18/2006	23:45:00	25.3	6.16	90.1
7/19/2006	0:00:00	25.2	6.17	90.1
7/19/2006	0:15:00	25.0	6.19	90.0
7/19/2006	0:30:00	24.9	6.20	89.9
7/19/2006	0:45:00	24.8	6.21	89.9
7/19/2006	1:00:00	24.6	6.23	90.0
7/19/2006	1:15:00	24.6	6.23	89.8
7/19/2006	1:30:00	24.5	6.23	89.9
7/19/2006	1:45:00	24.5	6.24	89.9
7/19/2006	2:00:00	24.4	6.24	89.9
7/19/2006	2:15:00	24.4	6.24	89.8
7/19/2006	2:30:00	24.3	6.26	89.8
7/19/2006	2:45:00	24.3	6.26	89.8
7/19/2006	3:00:00	24.2	6.27	89.9
7/19/2006	3:15:00	24.1	6.28	89.9
7/19/2006	3:30:00	24.1	6.29	89.9
7/19/2006	3:45:00	24.0	6.29	89.8
7/19/2006	4:00:00	24.0	6.30	89.8
7/19/2006	4:15:00	23.9	6.31	89.8
7/19/2006	4:30:00	23.8	6.32	89.8
7/19/2006	4:45:00	23.7	6.33	89.8
7/19/2006	5:00:00	23.6	6.34	89.8
7/19/2006	5:15:00	23.5	6.35	89.7
7/19/2006	5:30:00	23.4	6.35	89.6
7/19/2006	5:45:00	23.3	6.36	89.6
7/19/2006	6:00:00	23.2	6.36	89.5
7/19/2006	6:15:00	23.2	6.38	89.6
7/19/2006	6:30:00	23.1	6.39	89.7
7/19/2006	6:45:00	23.1	6.41	89.9
7/19/2006	7:00:00	23.0	6.43	90.1
7/19/2006	7:15:00	23.0	6.45	90.4

Table 5.5. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/19/2006	7:30:00	23.0	6.48	90.8
7/19/2006	7:45:00	23.1	6.51	91.3
7/19/2006	8:00:00	23.1	6.55	91.9
7/19/2006	8:15:00	23.2	6.58	92.5
7/19/2006	8:30:00	23.4	6.59	93.0
7/19/2006	8:45:00	23.5	6.62	93.5
7/19/2006	9:00:00	23.8	6.64	94.4
7/19/2006	9:15:00	24.0	6.67	95.2
7/19/2006	9:30:00	24.3	6.70	96.1
7/19/2006	9:45:00	24.5	6.73	96.9
7/19/2006	10:00:00	24.7	6.76	97.7
7/19/2006	10:15:00	25.0	6.78	98.6
7/19/2006	10:30:00	25.2	6.81	99.4
7/19/2006	10:45:00	25.5	6.83	100.3
7/19/2006	11:00:00	25.9	6.86	101.3
7/19/2006	11:15:00	26.2	6.88	102.2
7/19/2006	11:30:00	26.5	6.89	103.1
7/19/2006	11:45:00	26.9	6.91	104.2
7/19/2006	12:00:00	27.2	6.93	105.1
7/19/2006	12:15:00	27.6	6.94	105.9
7/19/2006	12:30:00	28.0	6.95	106.8
7/19/2006	12:45:00	28.3	6.97	107.8
7/19/2006	13:00:00	28.7	6.98	108.7
7/19/2006	13:15:00	29.1	7.00	109.7
7/19/2006	13:30:00	29.3	7.00	110.3
7/19/2006	13:45:00	29.6	7.01	111.0
7/19/2006	14:00:00	29.9	7.02	111.7
7/19/2006	14:15:00	30.3	7.02	112.4
7/19/2006	14:30:00	30.5	7.02	112.9
7/19/2006	14:45:00	30.8	7.02	113.5
7/19/2006	15:00:00	31.1	7.01	113.9
7/19/2006	15:15:00	31.4	7.00	114.4
7/19/2006	15:30:00	31.6	6.99	114.6
7/19/2006	15:45:00	31.7	6.98	114.7
7/19/2006	16:00:00	31.9	6.96	114.7
7/19/2006	16:15:00	32.0	6.89	113.8
7/19/2006	16:30:00	31.7	6.78	111.3
7/19/2006	16:45:00	31.4	6.61	108.1
7/19/2006	17:00:00	31.0	6.43	104.3
7/19/2006	17:15:00	30.5	6.31	101.4
7/19/2006	17:30:00	30.2	6.22	99.4
7/19/2006	17:45:00	29.9	6.16	97.9
7/19/2006	18:00:00	29.7	6.11	96.8
7/19/2006	18:15:00	29.5	6.09	96.3
7/19/2006	18:30:00	29.3	6.09	96.0
7/19/2006	18:45:00	29.2	6.09	95.8
7/19/2006	19:00:00	29.1	6.11	95.8

Table 5.5. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/19/2006	19:15:00	29.0	6.12	95.9
7/19/2006	19:30:00	28.9	6.13	95.9
7/19/2006	19:45:00	28.8	6.13	95.6
7/19/2006	20:00:00	28.6	6.13	95.2
7/19/2006	20:15:00	28.3	6.13	94.7
7/19/2006	20:30:00	28.1	6.12	94.2
7/19/2006	20:45:00	27.8	6.12	93.8
7/19/2006	21:00:00	27.6	6.12	93.5
7/19/2006	21:15:00	27.5	6.12	93.2
7/19/2006	21:30:00	27.4	6.12	93.1
7/19/2006	21:45:00	27.2	6.13	92.9
7/19/2006	22:00:00	27.2	6.13	92.8
7/19/2006	22:15:00	27.0	6.13	92.6
7/19/2006	22:30:00	26.9	6.13	92.5
7/19/2006	22:45:00	26.8	6.14	92.5
7/19/2006	23:00:00	26.8	6.15	92.4
7/19/2006	23:15:00	26.7	6.15	92.3
7/19/2006	23:30:00	26.6	6.16	92.3
7/19/2006	23:45:00	26.4	6.18	92.2
7/20/2006	0:00:00	26.2	6.19	92.2
7/20/2006	0:15:00	26.1	6.21	92.1
7/20/2006	0:30:00	25.9	6.22	92.1
7/20/2006	0:45:00	25.8	6.23	92.0
7/20/2006	1:00:00	25.6	6.24	91.9
7/20/2006	1:15:00	25.5	6.25	91.9
7/20/2006	1:30:00	25.4	6.26	91.8
7/20/2006	1:45:00	25.3	6.27	91.8
7/20/2006	2:00:00	25.2	6.29	91.8
7/20/2006	2:15:00	25.1	6.30	91.8
7/20/2006	2:30:00	25.0	6.32	91.8
7/20/2006	2:45:00	24.8	6.33	91.8
7/20/2006	3:00:00	24.7	6.34	91.8
7/20/2006	3:15:00	24.6	6.36	91.7
7/20/2006	3:30:00	24.4	6.37	91.7
7/20/2006	3:45:00	24.3	6.39	91.7
7/20/2006	4:00:00	24.2	6.40	91.7
7/20/2006	4:15:00	24.1	6.42	91.7
7/20/2006	4:30:00	23.9	6.43	91.7
7/20/2006	4:45:00	23.8	6.45	91.7
7/20/2006	5:00:00	23.7	6.47	91.8
7/20/2006	5:15:00	23.5	6.49	91.8
7/20/2006	5:30:00	23.4	6.51	91.8
7/20/2006	5:45:00	23.3	6.53	91.9
7/20/2006	6:00:00	23.2	6.54	92.0
7/20/2006	6:15:00	23.1	6.56	92.1
7/20/2006	6:30:00	22.9	6.58	92.0
7/20/2006	6:45:00	22.8	6.60	92.1

Table 5.5. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/20/2006	7:00:00	22.7	6.63	92.3
7/20/2006	7:15:00	22.6	6.66	92.5
7/20/2006	7:30:00	22.6	6.69	92.9
7/20/2006	7:45:00	22.6	6.72	93.3
7/20/2006	8:00:00	22.6	6.75	93.8
7/20/2006	8:15:00	22.7	6.79	94.4
7/20/2006	8:30:00	22.8	6.82	95.1
7/20/2006	8:45:00	22.9	6.85	95.7
7/20/2006	9:00:00	23.0	6.89	96.6
7/20/2006	9:15:00	23.3	6.93	97.6
7/20/2006	9:30:00	23.5	6.96	98.3
7/20/2006	9:45:00	23.8	6.99	99.3
7/20/2006	10:00:00	24.0	7.00	100.1
7/20/2006	10:15:00	24.4	7.02	100.9
7/20/2006	10:30:00	24.7	7.04	101.7
7/20/2006	10:45:00	25.0	7.05	102.5
7/20/2006	11:00:00	25.3	7.06	103.3
7/20/2006	11:15:00	25.8	7.07	104.4
7/20/2006	11:30:00	26.2	7.08	105.2
7/20/2006	11:45:00	26.6	7.08	106.2
7/20/2006	12:00:00	27.0	7.08	106.9
7/20/2006	12:15:00	27.5	7.08	107.9
7/20/2006	12:30:00	27.8	7.07	108.4
7/20/2006	12:45:00	28.3	7.07	109.3
7/20/2006	13:00:00	28.7	7.06	110.0
7/20/2006	13:15:00	29.1	7.05	110.7
7/20/2006	13:30:00	29.5	7.05	111.4
7/20/2006	13:45:00	29.8	7.03	111.7
7/20/2006	14:00:00	30.1	7.02	112.1
7/20/2006	14:15:00	30.5	7.00	112.5
7/20/2006	14:30:00	30.8	6.99	112.9
7/20/2006	14:45:00	31.0	6.97	113.1
7/20/2006	15:00:00	31.2	6.95	113.1
7/20/2006	15:15:00	31.4	6.94	113.4
7/20/2006	15:30:00	31.6	6.91	113.2
7/20/2006	15:45:00	31.8	6.90	113.4
7/20/2006	16:00:00	31.9	6.87	113.3
7/20/2006	16:15:00	32.0	6.86	113.3
7/20/2006	16:30:00	32.1	6.84	113.1
7/20/2006	16:45:00	32.1	6.82	112.9
7/20/2006	17:00:00	32.2	6.80	112.6
7/20/2006	17:15:00	32.2	6.78	112.4
7/20/2006	17:30:00	32.2	6.76	112.0
7/20/2006	17:45:00	32.2	6.74	111.7
7/20/2006	18:00:00	32.1	6.72	111.2
7/20/2006	18:15:00	32.0	6.68	110.3
7/20/2006	18:30:00	31.9	6.65	109.6

Table 5.5. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/20/2006	18:45:00	31.8	6.62	108.8
7/20/2006	19:00:00	31.6	6.57	107.7
7/20/2006	19:15:00	31.4	6.52	106.6
7/20/2006	19:30:00	31.2	6.46	105.3
7/20/2006	19:45:00	31.1	6.40	104.1
7/20/2006	20:00:00	30.9	6.34	102.6
7/20/2006	20:15:00	30.6	6.28	101.1
7/20/2006	20:30:00	30.3	6.21	99.6
7/20/2006	20:45:00	30.1	6.16	98.4
7/20/2006	21:00:00	29.8	6.12	97.1
7/20/2006	21:15:00	29.6	6.08	96.2
7/20/2006	21:30:00	29.3	6.05	95.2
7/20/2006	21:45:00	29.1	6.03	94.6
7/20/2006	22:00:00	28.9	6.01	94.0
7/20/2006	22:15:00	28.7	6.00	93.4
7/20/2006	22:30:00	28.4	5.99	92.8
7/20/2006	22:45:00	28.2	5.98	92.3
7/20/2006	23:00:00	28.0	5.98	91.9
7/20/2006	23:15:00	27.8	5.97	91.4
7/20/2006	23:30:00	27.5	5.98	91.1
7/20/2006	23:45:00	27.2	5.99	90.8
7/21/2006	0:00:00	27.0	5.99	90.5
7/21/2006	0:15:00	26.8	6.00	90.3
7/21/2006	0:30:00	26.6	6.02	90.2
7/21/2006	0:45:00	26.5	6.03	90.2
7/21/2006	1:00:00	26.3	6.03	89.9
7/21/2006	1:15:00	26.1	6.05	89.8
7/21/2006	1:30:00	25.9	6.06	89.7
7/21/2006	1:45:00	25.8	6.08	89.8
7/21/2006	2:00:00	25.6	6.09	89.7
7/21/2006	2:15:00	25.5	6.12	89.7
7/21/2006	2:30:00	25.3	6.14	89.9
7/21/2006	2:45:00	25.2	6.15	89.8
7/21/2006	3:00:00	25.1	6.18	90.0
7/21/2006	3:15:00	24.9	6.21	90.1
7/21/2006	3:30:00	24.7	6.24	90.3
7/21/2006	3:45:00	24.5	6.27	90.4
7/21/2006	4:00:00	24.4	6.30	90.6
7/21/2006	4:15:00	24.3	6.33	90.8
7/21/2006	4:30:00	24.1	6.37	91.0
7/21/2006	4:45:00	24.0	6.39	91.2
7/21/2006	5:00:00	23.8	6.41	91.3
7/21/2006	5:15:00	23.7	6.43	91.4
7/21/2006	5:30:00	23.6	6.45	91.4
7/21/2006	5:45:00	23.5	6.47	91.4
7/21/2006	6:00:00	23.4	6.49	91.6
7/21/2006	6:15:00	23.3	6.51	91.7

Table 5.5. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico during July 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/21/2006	6:30:00	23.2	6.53	91.8
7/21/2006	6:45:00	23.1	6.56	92.1
7/21/2006	7:00:00	23.0	6.59	92.3
7/21/2006	7:15:00	22.9	6.62	92.5
7/21/2006	7:30:00	22.9	6.65	92.9
7/21/2006	7:45:00	22.8	6.68	93.3
7/21/2006	8:00:00	22.8	6.72	93.7
7/21/2006	8:15:00	22.9	6.76	94.4
7/21/2006	8:30:00	22.9	6.79	95.0
7/21/2006	8:45:00	23.0	6.83	95.6
7/21/2006	9:00:00	23.1	6.86	96.3
7/21/2006	9:15:00	23.3	6.90	97.1
7/21/2006	9:30:00	23.5	6.93	97.9
7/21/2006	9:45:00	23.6	6.95	98.6
7/21/2006	10:00:00	23.9	6.97	99.2
7/21/2006	10:15:00	24.1	6.99	99.8

Table 5.6. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:23:18
Report from file:	...\SN45476 2006-07-17 130000 Site6-7-17-06.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45476	
Firmware Version	1.58	
Unit name:	Troll 9000	apollo
Barometric Pressure:		636.711
Test defined on:	7/17/2006	1:21:32
Test scheduled for:	7/17/2006	13:00:00
Test started on:	7/17/2006	13:00:00
Test stopped on:	7/31/2006	15:18:09
Data gathered using linear testing		
Time between data points		900 seconds
Number of data samples:		370

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
7/17/2006	13:00:00	29.0	6.55	102.4
7/17/2006	13:15:00	29.5	6.51	102.7
7/17/2006	13:30:00	29.9	6.47	102.8
7/17/2006	13:45:00	30.2	6.43	102.8
7/17/2006	14:00:00	30.6	6.39	102.8
7/17/2006	14:15:00	30.9	6.35	102.7
7/17/2006	14:30:00	31.3	6.31	102.8
7/17/2006	14:45:00	31.6	6.27	102.7
7/17/2006	15:00:00	31.8	6.24	102.6
7/17/2006	15:15:00	32.1	6.20	102.4
7/17/2006	15:30:00	32.4	6.17	102.3
7/17/2006	15:45:00	32.6	6.14	102.2
7/17/2006	16:00:00	32.7	6.11	102.1
7/17/2006	16:15:00	32.8	6.09	101.8
7/17/2006	16:30:00	32.9	6.07	101.6
7/17/2006	16:45:00	32.9	6.05	101.2
7/17/2006	17:00:00	32.7	6.03	100.7
7/17/2006	17:15:00	32.5	6.01	99.9
7/17/2006	17:30:00	32.2	5.99	99.1
7/17/2006	17:45:00	32.0	5.98	98.7
7/17/2006	18:00:00	31.9	5.95	98.0
7/17/2006	18:15:00	31.8	5.97	98.0
7/17/2006	18:30:00	31.6	5.97	97.8
7/17/2006	18:45:00	31.5	5.95	97.2
7/17/2006	19:00:00	31.3	5.83	95.0
7/17/2006	19:15:00	31.2	5.88	95.5
7/17/2006	19:30:00	31.0	5.92	95.9
7/17/2006	19:45:00	30.7	5.86	94.6

Table 5.6. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/17/2006	20:00:00	30.5	5.93	95.3
7/17/2006	20:15:00	30.2	5.91	94.6
7/17/2006	20:30:00	30.0	5.92	94.3
7/17/2006	20:45:00	29.7	5.92	93.8
7/17/2006	21:00:00	29.5	5.90	93.1
7/17/2006	21:15:00	29.2	5.75	90.3
7/17/2006	21:30:00	29.0	5.62	87.8
7/17/2006	21:45:00	28.8	5.77	89.9
7/17/2006	22:00:00	28.6	5.75	89.3
7/17/2006	22:15:00	28.4	5.78	89.4
7/17/2006	22:30:00	28.1	5.96	91.8
7/17/2006	22:45:00	27.9	5.94	91.1
7/17/2006	23:00:00	27.6	5.89	89.9
7/17/2006	23:15:00	27.4	5.99	91.0
7/17/2006	23:30:00	27.1	5.81	87.9
7/17/2006	23:45:00	26.9	5.94	89.4
7/18/2006	0:00:00	26.7	6.08	91.2
7/18/2006	0:15:00	26.5	6.11	91.3
7/18/2006	0:30:00	26.3	6.14	91.4
7/18/2006	0:45:00	26.1	6.15	91.1
7/18/2006	1:00:00	25.9	6.16	90.9
7/18/2006	1:15:00	25.7	6.19	91.1
7/18/2006	1:30:00	25.6	6.18	90.8
7/18/2006	1:45:00	25.5	6.12	89.8
7/18/2006	2:00:00	25.4	6.17	90.3
7/18/2006	2:15:00	25.2	6.22	90.8
7/18/2006	2:30:00	25.1	6.22	90.6
7/18/2006	2:45:00	25.0	6.16	89.5
7/18/2006	3:00:00	24.9	6.23	90.3
7/18/2006	3:15:00	24.8	6.24	90.3
7/18/2006	3:30:00	24.7	6.24	90.2
7/18/2006	3:45:00	24.6	6.23	89.9
7/18/2006	4:00:00	24.5	6.28	90.4
7/18/2006	4:15:00	24.4	6.32	90.7
7/18/2006	4:30:00	24.3	6.31	90.5
7/18/2006	4:45:00	24.1	6.20	88.7
7/18/2006	5:00:00	24.1	6.31	90.1
7/18/2006	5:15:00	23.9	6.33	90.2
7/18/2006	5:30:00	23.8	6.42	91.2
7/18/2006	5:45:00	23.7	6.46	91.6
7/18/2006	6:00:00	23.6	6.48	91.8
7/18/2006	6:15:00	23.5	6.52	92.1
7/18/2006	6:30:00	23.4	6.54	92.2
7/18/2006	6:45:00	23.3	6.56	92.3
7/18/2006	7:00:00	23.2	6.57	92.2
7/18/2006	7:15:00	23.1	6.58	92.3

Table 5.6. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/18/2006	7:30:00	23.1	6.58	92.1
7/18/2006	7:45:00	23.0	6.62	92.7
7/18/2006	8:00:00	23.0	6.65	93.1
7/18/2006	8:15:00	23.0	6.62	92.6
7/18/2006	8:30:00	23.0	6.35	88.9
7/18/2006	8:45:00	23.0	5.73	80.2
7/18/2006	9:00:00	23.0	5.49	76.8
7/18/2006	9:15:00	23.1	5.39	75.6
7/18/2006	9:30:00	23.2	5.37	75.4
7/18/2006	9:45:00	23.3	6.84	96.3
7/18/2006	10:00:00	23.5	6.88	97.1
7/18/2006	10:15:00	23.8	6.24	88.7
7/18/2006	10:30:00	24.2	5.76	82.4
7/18/2006	10:45:00	24.5	5.56	80.0
7/18/2006	11:00:00	25.1	6.90	100.5
7/18/2006	11:15:00	25.8	6.82	100.6
7/18/2006	11:30:00	26.3	6.76	100.7
7/18/2006	11:45:00	26.8	6.00	90.1
7/18/2006	12:00:00	27.7	5.41	82.6
7/18/2006	12:15:00	28.2	5.14	79.3
7/18/2006	12:30:00	28.7	5.01	77.8
7/18/2006	12:45:00	29.2	4.76	74.6
7/18/2006	13:00:00	29.7	5.28	83.6
7/18/2006	13:15:00	30.1	5.94	94.6
7/18/2006	13:30:00	30.6	5.38	86.7
7/18/2006	13:45:00	31.0	4.72	76.5
7/18/2006	14:00:00	31.5	4.25	69.4
7/18/2006	14:15:00	31.9	3.89	64.0
7/18/2006	14:30:00	32.4	3.65	60.6
7/18/2006	14:45:00	32.9	3.51	58.7
7/18/2006	15:00:00	33.4	3.38	57.0
7/18/2006	15:15:00	33.8	3.27	55.6
7/18/2006	15:30:00	34.2	3.13	53.5
7/18/2006	15:45:00	34.4	3.00	51.6
7/18/2006	16:00:00	34.6	2.91	50.2
7/18/2006	16:15:00	34.7	2.86*	49.4
7/18/2006	16:30:00	35.0	2.83	49.0
7/18/2006	16:45:00	35.0	2.79*	48.5
7/18/2006	17:00:00	35.0	3.97	68.9
7/18/2006	17:15:00	35.0	4.66	80.8
7/18/2006	17:30:00	35.0	4.53	78.8
7/18/2006	17:45:00	35.1	4.40	76.6
7/18/2006	18:00:00	34.5	4.21	72.5
7/18/2006	18:15:00	32.9	4.07	68.2
7/18/2006	18:30:00	31.9	3.99	65.7
7/18/2006	18:45:00	30.6	3.88	62.6

Table 5.6. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/18/2006	19:00:00	29.8	6.09	96.5
7/18/2006	19:15:00	29.2	5.24	82.4
7/18/2006	19:30:00	28.4	4.97	76.8
7/18/2006	19:45:00	28.0	4.63	71.1
7/18/2006	20:00:00	27.7	4.49	68.6
7/18/2006	20:15:00	27.7	5.33	81.5
7/18/2006	20:30:00	27.7	4.87	74.4
7/18/2006	20:45:00	27.6	5.14	78.4
7/18/2006	21:00:00	27.5	4.91	74.7
7/18/2006	21:15:00	27.3	4.69	71.1
7/18/2006	21:30:00	26.5	4.48	66.9
7/18/2006	21:45:00	26.0	4.36	64.5
7/18/2006	22:00:00	25.8	4.75	70.1
7/18/2006	22:15:00	25.6	4.94	72.6
7/18/2006	22:30:00	25.4	4.73	69.2
7/18/2006	22:45:00	25.1	4.59	66.9
7/18/2006	23:00:00	24.8	4.61	66.7
7/18/2006	23:15:00	24.5	4.68	67.4
7/18/2006	23:30:00	24.2	4.80	68.8
7/18/2006	23:45:00	24.1	5.57	79.6
7/19/2006	0:00:00	23.9	5.23	74.5
7/19/2006	0:15:00	23.8	5.78	82.1
7/19/2006	0:30:00	23.8	5.46	77.6
7/19/2006	0:45:00	23.8	5.22	74.2
7/19/2006	1:00:00	23.8	5.04	71.6
7/19/2006	1:15:00	23.8	4.89	69.5
7/19/2006	1:30:00	23.8	4.79	68.1
7/19/2006	1:45:00	23.8	4.72	67.0
7/19/2006	2:00:00	23.7	4.67	66.2
7/19/2006	2:15:00	23.6	4.66	65.9
7/19/2006	2:30:00	23.5	4.61	65.1
7/19/2006	2:45:00	23.3	4.55	64.1
7/19/2006	3:00:00	23.2	4.51	63.2
7/19/2006	3:15:00	23.1	4.46	62.6
7/19/2006	3:30:00	23.0	4.44	62.0
7/19/2006	3:45:00	22.8	4.42	61.6
7/19/2006	4:00:00	22.7	4.40	61.3
7/19/2006	4:15:00	22.6	4.39	60.9
7/19/2006	4:30:00	22.5	4.38	60.6
7/19/2006	4:45:00	22.4	4.37	60.5
7/19/2006	5:00:00	22.4	4.37	60.4
7/19/2006	5:15:00	22.3	4.38	60.5
7/19/2006	5:30:00	22.2	4.40	60.6
7/19/2006	5:45:00	22.1	4.43	60.8
7/19/2006	6:00:00	22.0	4.46	61.2
7/19/2006	6:15:00	22.0	4.50	61.6

Table 5.6. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/19/2006	6:30:00	21.9	4.54	62.2
7/19/2006	6:45:00	21.9	4.58	62.8
7/19/2006	7:00:00	22.0	4.62	63.4
7/19/2006	7:15:00	22.1	4.67	64.1
7/19/2006	7:30:00	22.2	4.71	64.9
7/19/2006	7:45:00	22.3	4.76	65.7
7/19/2006	8:00:00	22.6	4.80	66.6
7/19/2006	8:15:00	23.0	4.83	67.6
7/19/2006	8:30:00	23.4	4.86	68.6
7/19/2006	8:45:00	23.6	4.90	69.4
7/19/2006	9:00:00	23.9	4.94	70.3
7/19/2006	9:15:00	24.1	4.98	71.2
7/19/2006	9:30:00	24.6	5.01	72.2
7/19/2006	9:45:00	25.2	5.03	73.3
7/19/2006	10:00:00	25.7	5.05	74.3
7/19/2006	10:15:00	26.3	5.05	75.1
7/19/2006	10:30:00	26.9	5.04	75.8
7/19/2006	10:45:00	27.4	5.01	76.2
7/19/2006	11:00:00	28.0	4.99	76.6
7/19/2006	11:15:00	28.6	4.96	77.0
7/19/2006	11:30:00	29.2	4.93	77.3
7/19/2006	11:45:00	29.8	4.91	77.8
7/19/2006	12:00:00	30.4	4.88	78.3
7/19/2006	12:15:00	31.1	4.85	78.8
7/19/2006	12:30:00	31.8	4.84	79.5
7/19/2006	12:45:00	32.5	4.81	80.0
7/19/2006	13:00:00	33.0	4.77	80.2
7/19/2006	13:15:00	33.7	4.73	80.3
7/19/2006	13:30:00	34.2	4.70	80.5
7/19/2006	13:45:00	34.7	4.67	80.6
7/19/2006	14:00:00	35.0	4.68	81.4
7/19/2006	14:15:00	35.5	4.67	81.8
7/19/2006	14:30:00	36.0	4.73	83.5
7/19/2006	14:45:00	36.3	5.01	88.9
7/19/2006	15:00:00	36.7	5.35	95.7
7/19/2006	15:15:00	36.8	5.55	99.4
7/19/2006	15:30:00	37.0	5.57	100.1
7/19/2006	15:45:00	37.0	5.59	100.3
7/19/2006	16:00:00	36.7	5.62	100.5
7/19/2006	16:15:00	36.8	5.75	103.0
7/19/2006	16:30:00	36.8	6.11	109.3
7/19/2006	16:45:00	36.5	6.64	118.2
7/19/2006	17:00:00	36.3	6.78	120.4
7/19/2006	17:15:00	35.9	6.60	116.3
7/19/2006	17:30:00	35.8	6.38	112.3
7/19/2006	17:45:00	35.5	6.07	106.2

Table 5.6. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/19/2006	18:00:00	35.3	5.92	103.4
7/19/2006	18:15:00	35.1	5.90	102.7
7/19/2006	18:30:00	34.8	5.82	100.7
7/19/2006	18:45:00	34.5	5.69	98.1
7/19/2006	19:00:00	34.0	5.56	95.0
7/19/2006	19:15:00	33.6	5.36	90.9
7/19/2006	19:30:00	33.2	5.30	89.3
7/19/2006	19:45:00	32.9	5.24	87.7
7/19/2006	20:00:00	32.5	5.11	85.1
7/19/2006	20:15:00	32.1	4.97	82.2
7/19/2006	20:30:00	31.6	4.83	79.0
7/19/2006	20:45:00	31.2	4.67	76.0
7/19/2006	21:00:00	30.9	4.53	73.3
7/19/2006	21:15:00	30.7	4.37	70.5
7/19/2006	21:30:00	30.5	4.23	67.9
7/19/2006	21:45:00	30.3	4.08	65.3
7/19/2006	22:00:00	30.0	3.96	63.0
7/19/2006	22:15:00	29.7	3.88	61.5
7/19/2006	22:30:00	29.4	3.82	60.1
7/19/2006	22:45:00	29.1	3.78	59.2
7/19/2006	23:00:00	28.8	3.75	58.5
7/19/2006	23:15:00	28.6	3.74	58.1
7/19/2006	23:30:00	28.3	3.73	57.6
7/19/2006	23:45:00	28.1	3.73	57.4
7/20/2006	0:00:00	27.9	3.75	57.5
7/20/2006	0:15:00	27.6	3.77	57.5
7/20/2006	0:30:00	27.3	3.78	57.4
7/20/2006	0:45:00	27.1	3.84	58.0
7/20/2006	1:00:00	26.9	3.89	58.6
7/20/2006	1:15:00	26.6	3.93	58.8
7/20/2006	1:30:00	26.3	3.95	58.9
7/20/2006	1:45:00	26.1	3.98	59.1
7/20/2006	2:00:00	25.9	4.00	59.2
7/20/2006	2:15:00	25.7	4.03	59.3
7/20/2006	2:30:00	25.5	4.06	59.5
7/20/2006	2:45:00	25.3	4.08	59.6
7/20/2006	3:00:00	25.1	4.11	59.8
7/20/2006	3:15:00	24.9	4.15	60.2
7/20/2006	3:30:00	24.7	4.18	60.4
7/20/2006	3:45:00	24.5	4.21	60.6
7/20/2006	4:00:00	24.3	4.24	60.9
7/20/2006	4:15:00	24.1	4.27	61.1
7/20/2006	4:30:00	24.0	4.30	61.2
7/20/2006	4:45:00	23.8	4.33	61.4
7/20/2006	5:00:00	23.6	4.36	61.7
7/20/2006	5:15:00	23.4	4.39	61.9

Table 5.6. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/20/2006	5:30:00	23.2	4.42	62.1
7/20/2006	5:45:00	23.0	4.45	62.3
7/20/2006	6:00:00	22.9	4.48	62.6
7/20/2006	6:15:00	22.7	4.52	62.8
7/20/2006	6:30:00	22.6	4.54	63.0
7/20/2006	6:45:00	22.5	4.58	63.3
7/20/2006	7:00:00	22.4	4.62	63.9
7/20/2006	7:15:00	22.4	4.67	64.5
7/20/2006	7:30:00	22.4	4.73	65.4
7/20/2006	7:45:00	22.6	4.80	66.7
7/20/2006	8:00:00	22.7	4.85	67.5
7/20/2006	8:15:00	22.7	4.83	67.1
7/20/2006	8:30:00	22.8	4.72	65.7
7/20/2006	8:45:00	22.9	4.59	64.1
7/20/2006	9:00:00	23.1	4.45	62.3
7/20/2006	9:15:00	23.3	4.31	60.7
7/20/2006	9:30:00	23.6	4.20	59.4
7/20/2006	9:45:00	24.0	4.09	58.4
7/20/2006	10:00:00	24.4	4.00	57.5
7/20/2006	10:15:00	24.8	3.90	56.5
7/20/2006	10:30:00	25.2	3.81	55.6
7/20/2006	10:45:00	25.7	3.74	55.0
7/20/2006	11:00:00	26.1	3.68	54.5
7/20/2006	11:15:00	26.5	3.62	54.0
7/20/2006	11:30:00	26.9	3.56	53.6
7/20/2006	11:45:00	27.4	3.48	52.9
7/20/2006	12:00:00	27.8	3.40	52.1
7/20/2006	12:15:00	28.3	3.32	51.2
7/20/2006	12:30:00	28.7	3.22	50.2
7/20/2006	12:45:00	29.2	3.13*	49.2*
7/20/2006	13:00:00	29.6	3.06	48.4
7/20/2006	13:15:00	29.9	3.01	47.8
7/20/2006	13:30:00	30.3	2.96	47.3
7/20/2006	13:45:00	30.8	2.92	47.2
7/20/2006	14:00:00	31.1	2.91	47.2
7/20/2006	14:15:00	31.5	2.89	47.3
7/20/2006	14:30:00	31.9	2.87	47.3
7/20/2006	14:45:00	32.2	2.83	46.8
7/20/2006	15:00:00	32.5	2.75	45.7
7/20/2006	15:15:00	32.6	2.62	43.7
7/20/2006	15:30:00	32.8	2.48	41.4
7/20/2006	15:45:00	32.9	2.38	39.9
7/20/2006	16:00:00	33.0	2.30	38.6
7/20/2006	16:15:00	33.0	2.22	37.2
7/20/2006	16:30:00	33.1	2.12	35.7
7/20/2006	16:45:00	33.1	2.02	34.0

Table 5.6. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/20/2006	17:00:00	33.0	1.93	32.3
7/20/2006	17:15:00	33.0	1.82	30.4
7/20/2006	17:30:00	32.8	1.68	28.2
7/20/2006	17:45:00	32.7	1.55	25.9
7/20/2006	18:00:00	32.6	1.44	24.0
7/20/2006	18:15:00	32.5	1.38	23.0
7/20/2006	18:30:00	32.2	1.38	22.8
7/20/2006	18:45:00	32.0	1.35	22.2
7/20/2006	19:00:00	31.6	1.43	23.5
7/20/2006	19:15:00	31.4	1.49	24.3
7/20/2006	19:30:00	31.1	1.48	24.0
7/20/2006	19:45:00	30.8	1.51	24.3
7/20/2006	20:00:00	30.5	1.54	24.7
7/20/2006	20:15:00	30.2	1.59	25.4
7/20/2006	20:30:00	29.9	1.65	26.1
7/20/2006	20:45:00	29.6	1.72	27.2
7/20/2006	21:00:00	29.2	1.79	28.1
7/20/2006	21:15:00	28.9	1.88	29.4
7/20/2006	21:30:00	28.6	1.96	30.5
7/20/2006	21:45:00	28.3	2.03	31.4
7/20/2006	22:00:00	28.1	2.11	32.5
7/20/2006	22:15:00	27.8	2.21	33.8
7/20/2006	22:30:00	27.6	2.28	34.8
7/20/2006	22:45:00	27.4	2.36	35.8
7/20/2006	23:00:00	27.1	2.45	37.0
7/20/2006	23:15:00	26.9	2.54	38.3
7/20/2006	23:30:00	26.6	2.62	39.3
7/20/2006	23:45:00	26.3	2.71	40.3
7/21/2006	0:00:00	26.1	2.77	41.1
7/21/2006	0:15:00	25.9	2.84	41.9
7/21/2006	0:30:00	25.6	2.89	42.4
7/21/2006	0:45:00	25.4	3.00	44.0
7/21/2006	1:00:00	25.2	3.10	45.2
7/21/2006	1:15:00	25.0	3.18	46.2
7/21/2006	1:30:00	24.8	3.27	47.3
7/21/2006	1:45:00	24.6	3.35	48.4
7/21/2006	2:00:00	24.4	3.44	49.4
7/21/2006	2:15:00	24.2	3.51	50.3
7/21/2006	2:30:00	24.1	3.59	51.3
7/21/2006	2:45:00	23.9	3.66	52.1
7/21/2006	3:00:00	23.8	3.68	52.2
7/21/2006	3:15:00	23.6	3.65	51.7
7/21/2006	3:30:00	23.4	3.58	50.4
7/21/2006	3:45:00	23.2	3.48	48.9
7/21/2006	4:00:00	23.1	3.40	47.6
7/21/2006	4:15:00	22.9	3.36	46.9

Table 5.6. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/21/2006	4:30:00	22.7	3.35	46.7
7/21/2006	4:45:00	22.6	3.37	46.8
7/21/2006	5:00:00	22.4	3.40	47.0
7/21/2006	5:15:00	22.3	3.44	47.4
7/21/2006	5:30:00	22.1	3.48	47.8
7/21/2006	5:45:00	22.0	3.52	48.3
7/21/2006	6:00:00	21.9	3.56	48.8
7/21/2006	6:15:00	21.8	3.61	49.3
7/21/2006	6:30:00	21.7	3.64*	49.7
7/21/2006	6:45:00	21.7	3.68	50.1
7/21/2006	7:00:00	21.6	3.71	50.5
7/21/2006	7:15:00	21.6	3.74	50.9
7/21/2006	7:30:00	21.6	3.76	51.2
7/21/2006	7:45:00	21.7	3.79	51.6
7/21/2006	8:00:00	21.8	3.81	52.0
7/21/2006	8:15:00	21.9	3.82	52.4
7/21/2006	8:30:00	22.1	3.84	52.8
7/21/2006	8:45:00	22.4	3.84	53.1
7/21/2006	9:00:00	22.7	3.83	53.3
7/21/2006	9:15:00	23.0	3.83	53.6

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:20:36
Report from file:	...\SN45475 2006-10-06 140000 ite1_10_6_06.bin	
Win-Situ Version		4.55.3.0
Serial number:		45475
Firmware Version		1.58
Unit name:		Athena
Barometric Pressure:	636.032	mm Hg
Test defined on:	10/6/2006	13:28:39
Test scheduled for:	10/6/2006	14:00:00
Test started on:	10/6/2006	14:00:00
Test stopped on:	10/13/2006	14:41:42
Data gathered using linear testing		
Time between data points	900	seconds
Number of data samples:	654	

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/6/2006	14:15:00	19.6	7.81	102.3
10/6/2006	14:30:00	19.7	7.81	102.4
10/6/2006	14:45:00	19.8	7.81	102.6
10/6/2006	15:00:00	19.8	7.81	102.5
10/6/2006	15:15:00	19.7	7.81	102.3
10/6/2006	15:30:00	19.7	7.80	102.3
10/6/2006	15:45:00	19.6	7.80	102.1
10/6/2006	16:00:00	19.6	7.78	102.0
10/6/2006	16:15:00	19.7	7.77	101.8
10/6/2006	16:30:00	19.7	7.75	101.7
10/6/2006	16:45:00	19.6	7.74	101.5
10/6/2006	17:00:00	19.6	7.74	101.3
10/6/2006	17:15:00	19.5	7.74	101.1
10/6/2006	17:30:00	19.4	7.74	100.8
10/6/2006	17:45:00	19.3	7.73	100.6
10/6/2006	18:00:00	19.2	7.73	100.4
10/6/2006	18:15:00	19.1	7.72	100.0
10/6/2006	18:30:00	19.0	7.71	99.7
10/6/2006	18:45:00	18.9	7.70	99.3
10/6/2006	19:00:00	18.8	7.68	98.9
10/6/2006	19:15:00	18.7	7.67	98.5
10/6/2006	19:30:00	18.6	7.66	98.3
10/6/2006	19:45:00	18.5	7.65	98.1
10/6/2006	20:00:00	18.5	7.65	97.9
10/6/2006	20:15:00	18.4	7.65	97.8
10/6/2006	20:30:00	18.3	7.65	97.6
10/6/2006	20:45:00	18.3	7.65	97.5
10/6/2006	21:00:00	18.2	7.65	97.4
10/6/2006	21:15:00	18.2	7.66	97.4

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/6/2006	21:30:00	18.1	7.66	97.3
10/6/2006	21:45:00	18.1	7.66	97.3
10/6/2006	22:00:00	18.0	7.66	97.2
10/6/2006	22:15:00	18.0	7.67	97.1
10/6/2006	22:30:00	18.0	7.67	97.1
10/6/2006	22:45:00	17.9	7.67	97.1
10/6/2006	23:00:00	17.9	7.68	97.1
10/6/2006	23:15:00	17.8	7.68	97.0
10/6/2006	23:30:00	17.8	7.69	97.0
10/6/2006	23:45:00	17.8	7.69	97.0
10/7/2006	0:00:00	17.7	7.70	97.0
10/7/2006	0:15:00	17.7	7.70	97.0
10/7/2006	0:30:00	17.7	7.71	96.9
10/7/2006	0:45:00	17.6	7.71	96.9
10/7/2006	1:00:00	17.6	7.71	96.9
10/7/2006	1:15:00	17.5	7.72	96.9
10/7/2006	1:30:00	17.5	7.72	96.9
10/7/2006	1:45:00	17.5	7.72	96.8
10/7/2006	2:00:00	17.5	7.73	96.8
10/7/2006	2:15:00	17.5	7.73	96.8
10/7/2006	2:30:00	17.5	7.73	96.8
10/7/2006	2:45:00	17.4	7.73	96.8
10/7/2006	3:00:00	17.4	7.73	96.8
10/7/2006	3:15:00	17.4	7.73	96.8
10/7/2006	3:30:00	17.4	7.73	96.8
10/7/2006	3:45:00	17.4	7.73	96.8
10/7/2006	4:00:00	17.4	7.73	96.7
10/7/2006	4:15:00	17.4	7.73	96.7
10/7/2006	4:30:00	17.4	7.73	96.7
10/7/2006	4:45:00	17.4	7.73	96.7
10/7/2006	5:00:00	17.4	7.73	96.7
10/7/2006	5:15:00	17.3	7.73	96.7
10/7/2006	5:30:00	17.3	7.73	96.7
10/7/2006	5:45:00	17.3	7.73	96.6
10/7/2006	6:00:00	17.3	7.74	96.6
10/7/2006	6:15:00	17.3	7.74	96.5
10/7/2006	6:30:00	17.3	7.74	96.5
10/7/2006	6:45:00	17.2	7.74	96.5
10/7/2006	7:00:00	17.2	7.74	96.5
10/7/2006	7:15:00	17.2	7.74	96.5
10/7/2006	7:30:00	17.2	7.75	96.5
10/7/2006	7:45:00	17.2	7.75	96.5
10/7/2006	8:00:00	17.2	7.75	96.5
10/7/2006	8:15:00	17.2	7.77	96.7
10/7/2006	8:30:00	17.1	7.78	96.8
10/7/2006	8:45:00	17.1	7.80	97.0
10/7/2006	9:00:00	17.1	7.81	97.1

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/7/2006	9:15:00	17.2	7.82	97.3
10/7/2006	9:30:00	17.2	7.83	97.5
10/7/2006	9:45:00	17.2	7.83	97.7
10/7/2006	10:00:00	17.3	7.85	98.0
10/7/2006	10:15:00	17.3	7.86	98.2
10/7/2006	10:30:00	17.4	7.87	98.5
10/7/2006	10:45:00	17.5	7.88	98.8
10/7/2006	11:00:00	17.6	7.89	99.2
10/7/2006	11:15:00	17.8	7.90	99.7
10/7/2006	11:30:00	18.0	7.91	100.1
10/7/2006	11:45:00	18.1	7.91	100.5
10/7/2006	12:00:00	18.3	7.92	100.9
10/7/2006	12:15:00	18.5	7.92	101.4
10/7/2006	12:30:00	18.6	7.91	101.6
10/7/2006	12:45:00	18.8	7.91	101.9
10/7/2006	13:00:00	19.0	7.90	102.1
10/7/2006	13:15:00	19.1	7.90	102.5
10/7/2006	13:30:00	19.3	7.89	102.8
10/7/2006	13:45:00	19.6	7.88	103.1
10/7/2006	14:00:00	19.7	7.87	103.3
10/7/2006	14:15:00	19.9	7.86	103.6
10/7/2006	14:30:00	20.1	7.85	103.8
10/7/2006	14:45:00	20.2	7.84	103.8
10/7/2006	15:00:00	20.2	7.83	103.8
10/7/2006	15:15:00	20.1	7.82	103.5
10/7/2006	15:30:00	20.0	7.81	103.1
10/7/2006	15:45:00	19.9	7.80	102.7
10/7/2006	16:00:00	19.7	7.80	102.4
10/7/2006	16:15:00	19.6	7.79	102.0
10/7/2006	16:30:00	19.5	7.78	101.7
10/7/2006	16:45:00	19.5	7.77	101.5
10/7/2006	17:00:00	19.4	7.77	101.2
10/7/2006	17:15:00	19.3	7.76	100.9
10/7/2006	17:30:00	19.2	7.77	100.8
10/7/2006	17:45:00	19.1	7.76	100.5
10/7/2006	18:00:00	19.0	7.75	100.3
10/7/2006	18:15:00	18.9	7.75	100.1
10/7/2006	18:30:00	18.9	7.74	99.8
10/7/2006	18:45:00	18.8	7.72	99.4
10/7/2006	19:00:00	18.7	7.70	99.0
10/7/2006	19:15:00	18.6	7.69	98.6
10/7/2006	19:30:00	18.5	7.67	98.2
10/7/2006	19:45:00	18.4	7.66	98.0
10/7/2006	20:00:00	18.3	7.66	97.7
10/7/2006	20:15:00	18.2	7.66	97.4
10/7/2006	20:30:00	18.1	7.65	97.2
10/7/2006	20:45:00	18.0	7.65	97.0

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/7/2006	21:00:00	18.0	7.65	96.9
10/7/2006	21:15:00	17.9	7.65	96.9
10/7/2006	21:30:00	17.9	7.65	96.8
10/7/2006	21:45:00	17.9	7.65	96.8
10/7/2006	22:00:00	17.9	7.65	96.7
10/7/2006	22:15:00	17.9	7.65	96.7
10/7/2006	22:30:00	17.9	7.65	96.7
10/7/2006	22:45:00	17.9	7.65	96.7
10/7/2006	23:00:00	17.9	7.65	96.7
10/7/2006	23:15:00	17.9	7.65	96.7
10/7/2006	23:30:00	17.8	7.66	96.7
10/7/2006	23:45:00	17.8	7.66	96.7
10/8/2006	0:00:00	17.8	7.67	96.7
10/8/2006	0:15:00	17.7	7.67	96.7
10/8/2006	0:30:00	17.7	7.67	96.7
10/8/2006	0:45:00	17.7	7.68	96.7
10/8/2006	1:00:00	17.7	7.68	96.7
10/8/2006	1:15:00	17.7	7.69	96.7
10/8/2006	1:30:00	17.7	7.69	96.8
10/8/2006	1:45:00	17.7	7.69	96.8
10/8/2006	2:00:00	17.7	7.70	96.8
10/8/2006	2:15:00	17.6	7.70	96.8
10/8/2006	2:30:00	17.6	7.71	96.9
10/8/2006	2:45:00	17.6	7.71	96.9
10/8/2006	3:00:00	17.6	7.71	96.9
10/8/2006	3:15:00	17.6	7.72	97.0
10/8/2006	3:30:00	17.6	7.72	97.0
10/8/2006	3:45:00	17.5	7.73	96.9
10/8/2006	4:00:00	17.5	7.73	97.0
10/8/2006	4:15:00	17.5	7.73	97.0
10/8/2006	4:30:00	17.5	7.73	97.0
10/8/2006	4:45:00	17.5	7.73	96.9
10/8/2006	5:00:00	17.5	7.73	96.9
10/8/2006	5:15:00	17.4	7.74	96.9
10/8/2006	5:30:00	17.4	7.74	96.8
10/8/2006	5:45:00	17.4	7.74	96.8
10/8/2006	6:00:00	17.4	7.74	96.8
10/8/2006	6:15:00	17.3	7.74	96.7
10/8/2006	6:30:00	17.3	7.75	96.7
10/8/2006	6:45:00	17.3	7.75	96.7
10/8/2006	7:00:00	17.2	7.75	96.6
10/8/2006	7:15:00	17.2	7.75	96.6
10/8/2006	7:30:00	17.2	7.76	96.6
10/8/2006	7:45:00	17.1	7.76	96.6
10/8/2006	8:00:00	17.1	7.77	96.7
10/8/2006	8:15:00	17.1	7.77	96.7
10/8/2006	8:30:00	17.1	7.79	96.9

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/8/2006	8:45:00	17.1	7.80	97.0
10/8/2006	9:00:00	17.1	7.80	97.1
10/8/2006	9:15:00	17.2	7.81	97.2
10/8/2006	9:30:00	17.2	7.83	97.5
10/8/2006	9:45:00	17.2	7.84	97.8
10/8/2006	10:00:00	17.3	7.86	98.0
10/8/2006	10:15:00	17.3	7.88	98.3
10/8/2006	10:30:00	17.3	7.89	98.5
10/8/2006	10:45:00	17.3	7.90	98.8
10/8/2006	11:00:00	17.4	7.92	99.0
10/8/2006	11:15:00	17.5	7.93	99.4
10/8/2006	11:30:00	17.6	7.94	99.7
10/8/2006	11:45:00	17.7	7.95	100.1
10/8/2006	12:00:00	17.8	7.96	100.4
10/8/2006	12:15:00	18.0	7.96	100.8
10/8/2006	12:30:00	18.1	7.97	101.2
10/8/2006	12:45:00	18.3	7.97	101.6
10/8/2006	13:00:00	18.5	7.97	102.0
10/8/2006	13:15:00	18.5	7.97	102.1
10/8/2006	13:30:00	18.6	7.97	102.2
10/8/2006	13:45:00	18.6	7.97	102.2
10/8/2006	14:00:00	18.6	7.97	102.1
10/8/2006	14:15:00	18.6	7.97	102.1
10/8/2006	14:30:00	18.5	7.97	102.0
10/8/2006	14:45:00	18.4	7.97	101.9
10/8/2006	15:00:00	18.3	7.96	101.6
10/8/2006	15:15:00	18.3	7.96	101.5
10/8/2006	15:30:00	18.2	7.96	101.3
10/8/2006	15:45:00	18.2	7.96	101.3
10/8/2006	16:00:00	18.3	7.95	101.4
10/8/2006	16:15:00	18.3	7.95	101.5
10/8/2006	16:30:00	18.3	7.95	101.5
10/8/2006	16:45:00	18.2	7.96	101.3
10/8/2006	17:00:00	18.1	7.96	101.1
10/8/2006	17:15:00	18.0	7.95	100.8
10/8/2006	17:30:00	17.9	7.94	100.5
10/8/2006	17:45:00	17.8	7.93	100.1
10/8/2006	18:00:00	17.7	7.93	99.9
10/8/2006	18:15:00	17.6	7.93	99.6
10/8/2006	18:30:00	17.4	7.93	99.3
10/8/2006	18:45:00	17.2	7.95	99.1
10/8/2006	19:00:00	17.1	7.95	98.8
10/8/2006	19:15:00	16.9	7.96	98.5
10/8/2006	19:30:00	16.8	7.96	98.3
10/8/2006	19:45:00	16.7	7.95	98.0
10/8/2006	20:00:00	16.6	7.95	97.7
10/8/2006	20:15:00	16.5	7.95	97.5

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/8/2006	20:30:00	16.4	7.95	97.3
10/8/2006	20:45:00	16.3	7.95	97.2
10/8/2006	21:00:00	16.2	7.96	97.1
10/8/2006	21:15:00	16.2	7.96	97.0
10/8/2006	21:30:00	16.1	7.96	96.9
10/8/2006	21:45:00	16.0	7.96	96.8
10/8/2006	22:00:00	16.0	7.96	96.7
10/8/2006	22:15:00	15.9	7.97	96.6
10/8/2006	22:30:00	15.9	7.97	96.5
10/8/2006	22:45:00	15.8	7.98	96.5
10/8/2006	23:00:00	15.7	7.99	96.5
10/8/2006	23:15:00	15.7	7.99	96.4
10/8/2006	23:30:00	15.6	8.00	96.3
10/8/2006	23:45:00	15.5	8.01	96.3
10/9/2006	0:00:00	15.5	8.01	96.2
10/9/2006	0:15:00	15.4	8.02	96.2
10/9/2006	0:30:00	15.4	8.02	96.2
10/9/2006	0:45:00	15.4	8.03	96.2
10/9/2006	1:00:00	15.3	8.03	96.2
10/9/2006	1:15:00	15.3	8.04	96.2
10/9/2006	1:30:00	15.3	8.04	96.3
10/9/2006	1:45:00	15.4	8.04	96.3
10/9/2006	2:00:00	15.3	8.05	96.4
10/9/2006	2:15:00	15.4	8.05	96.4
10/9/2006	2:30:00	15.4	8.05	96.5
10/9/2006	2:45:00	15.4	8.06	96.6
10/9/2006	3:00:00	15.4	8.07	96.6
10/9/2006	3:15:00	15.4	8.07	96.7
10/9/2006	3:30:00	15.4	8.07	96.8
10/9/2006	3:45:00	15.4	8.08	96.8
10/9/2006	4:00:00	15.4	8.08	96.9
10/9/2006	4:15:00	15.4	8.08	96.9
10/9/2006	4:30:00	15.4	8.09	96.9
10/9/2006	4:45:00	15.4	8.09	97.0
10/9/2006	5:00:00	15.4	8.09	96.9
10/9/2006	5:15:00	15.4	8.09	96.9
10/9/2006	5:30:00	15.3	8.09	96.9
10/9/2006	5:45:00	15.3	8.09	96.9
10/9/2006	6:00:00	15.3	8.09	96.9
10/9/2006	6:15:00	15.3	8.09	96.9
10/9/2006	6:30:00	15.3	8.09	96.9
10/9/2006	6:45:00	15.3	8.09	96.8
10/9/2006	7:00:00	15.3	8.09	96.8
10/9/2006	7:15:00	15.3	8.09	96.7
10/9/2006	7:30:00	15.3	8.08	96.6
10/9/2006	7:45:00	15.2	8.08	96.6
10/9/2006	8:00:00	15.2	8.09	96.5

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/9/2006	8:15:00	15.2	8.09	96.5
10/9/2006	8:30:00	15.2	8.09	96.5
10/9/2006	8:45:00	15.2	8.09	96.6
10/9/2006	9:00:00	15.2	8.10	96.7
10/9/2006	9:15:00	15.2	8.11	96.8
10/9/2006	9:30:00	15.3	8.12	97.2
10/9/2006	9:45:00	15.4	8.14	97.6
10/9/2006	10:00:00	15.5	8.15	98.0
10/9/2006	10:15:00	15.6	8.16	98.2
10/9/2006	10:30:00	15.6	8.17	98.4
10/9/2006	10:45:00	15.7	8.17	98.7
10/9/2006	11:00:00	15.9	8.17	99.1
10/9/2006	11:15:00	16.0	8.18	99.3
10/9/2006	11:30:00	16.1	8.18	99.6
10/9/2006	11:45:00	16.2	8.19	99.8
10/9/2006	12:00:00	16.2	8.19	100.0
10/9/2006	12:15:00	16.3	8.19	100.1
10/9/2006	12:30:00	16.5	8.19	100.5
10/9/2006	12:45:00	16.6	8.19	100.8
10/9/2006	13:00:00	16.7	8.18	100.9
10/9/2006	13:15:00	16.7	8.18	100.8
10/9/2006	13:30:00	16.8	8.17	101.1
10/9/2006	13:45:00	17.4	8.16	102.1
10/9/2006	14:00:00	17.7	8.14	102.5
10/9/2006	14:15:00	17.6	8.13	102.2
10/9/2006	14:30:00	17.5	8.12	101.9
10/9/2006	14:45:00	17.4	8.11	101.5
10/9/2006	15:00:00	17.4	8.10	101.5
10/9/2006	15:15:00	17.6	8.10	101.6
10/9/2006	15:30:00	17.6	8.10	101.7
10/9/2006	15:45:00	17.5	8.08	101.3
10/9/2006	16:00:00	17.4	8.05	100.8
10/9/2006	16:15:00	17.3	8.04	100.3
10/9/2006	16:30:00	17.1	8.03	99.9
10/9/2006	16:45:00	17.0	8.02	99.7
10/9/2006	17:00:00	17.0	8.02	99.4
10/9/2006	17:15:00	16.9	8.00	99.0
10/9/2006	17:30:00	16.8	7.99	98.6
10/9/2006	17:45:00	16.6	7.98	98.2
10/9/2006	18:00:00	16.5	7.98	98.0
10/9/2006	18:15:00	16.5	7.97	97.8
10/9/2006	18:30:00	16.4	7.97	97.6
10/9/2006	18:45:00	16.4	7.96	97.4
10/9/2006	19:00:00	16.4	7.95	97.3
10/9/2006	19:15:00	16.4	7.94	97.1
10/9/2006	19:30:00	16.4	7.92	97.0
10/9/2006	19:45:00	16.4	7.91	96.9

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/9/2006	20:00:00	16.4	7.91	96.8
10/9/2006	20:15:00	16.3	7.90	96.7
10/9/2006	20:30:00	16.3	7.90	96.6
10/9/2006	20:45:00	16.2	7.90	96.5
10/9/2006	21:00:00	16.2	7.90	96.2
10/9/2006	21:15:00	16.1	7.88	96.0
10/9/2006	21:30:00	16.1	7.86	95.7
10/9/2006	21:45:00	15.9	7.71	93.4
10/9/2006	22:00:00	15.4	7.31	87.7
10/9/2006	22:15:00	14.9	7.25	86.1
10/9/2006	22:30:00	14.7	7.44	87.7
10/9/2006	22:45:00	14.9	7.49	88.7
10/9/2006	23:00:00	15.0	7.42	88.1
10/9/2006	23:15:00	14.7	7.34	86.6
10/9/2006	23:30:00	14.0	7.28	84.7
10/9/2006	23:45:00	13.5	7.36	84.6
10/10/2006	0:00:00	13.2	7.49	85.6
10/10/2006	0:15:00	13.2	7.60	86.7
10/10/2006	0:30:00	13.1	7.71	87.8
10/10/2006	0:45:00	13.0	7.80	88.8
10/10/2006	1:00:00	13.0	7.87	89.4
10/10/2006	1:15:00	12.8	7.90	89.3
10/10/2006	1:30:00	12.5	7.87	88.5
10/10/2006	1:45:00	12.3	7.83	87.7
10/10/2006	2:00:00	12.2	7.81	87.3
10/10/2006	2:15:00	12.1	7.85	87.5
10/10/2006	2:30:00	12.1	7.92	88.2
10/10/2006	2:45:00	12.1	7.99	88.9
10/10/2006	3:00:00	12.1	8.03	89.4
10/10/2006	3:15:00	12.1	8.08	90.0
10/10/2006	3:30:00	12.1	8.11	90.4
10/10/2006	3:45:00	12.1	8.14	90.8
10/10/2006	4:00:00	12.2	8.17	91.2
10/10/2006	4:15:00	12.2	8.21	91.5
10/10/2006	4:30:00	12.2	8.23	91.9
10/10/2006	4:45:00	12.1	8.26	92.0
10/10/2006	5:00:00	12.1	8.28	92.3
10/10/2006	5:15:00	12.1	8.30	92.4
10/10/2006	5:30:00	12.0	8.31	92.5
10/10/2006	5:45:00	12.0	8.33	92.5
10/10/2006	6:00:00	11.9	8.34	92.5
10/10/2006	6:15:00	11.8	8.35	92.4
10/10/2006	6:30:00	11.7	8.35	92.3
10/10/2006	6:45:00	11.6	8.36	92.2
10/10/2006	7:00:00	11.6	8.38	92.2
10/10/2006	7:15:00	11.5	8.40	92.2
10/10/2006	7:30:00	11.4	8.43	92.4

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/10/2006	7:45:00	11.3	8.46	92.5
10/10/2006	8:00:00	11.3	8.48	92.7
10/10/2006	8:15:00	11.2	8.51	92.9
10/10/2006	8:30:00	11.2	8.54	93.2
10/10/2006	8:45:00	11.2	8.57	93.5
10/10/2006	9:00:00	11.2	8.60	93.8
10/10/2006	9:15:00	11.2	8.62	94.1
10/10/2006	9:30:00	11.3	8.65	94.5
10/10/2006	9:45:00	11.3	8.67	94.8
10/10/2006	10:00:00	11.3	8.69	95.1
10/10/2006	10:15:00	11.4	8.70	95.4
10/10/2006	10:30:00	11.5	8.70	95.7
10/10/2006	10:45:00	11.6	8.70	95.9
10/10/2006	11:00:00	11.7	8.70	96.1
10/10/2006	11:15:00	11.9	8.69	96.3
10/10/2006	11:30:00	12.0	8.68	96.5
10/10/2006	11:45:00	12.2	8.65	96.6
10/10/2006	12:00:00	12.5	8.60	96.6
10/10/2006	12:15:00	12.7	8.54	96.6
10/10/2006	12:30:00	13.0	8.49	96.4
10/10/2006	12:45:00	13.2	8.43	96.3
10/10/2006	13:00:00	13.4	8.38	96.2
10/10/2006	13:15:00	13.7	8.32	96.0
10/10/2006	13:30:00	13.9	8.25	95.8
10/10/2006	13:45:00	14.2	8.19	95.6
10/10/2006	14:00:00	14.5	8.12	95.4
10/10/2006	14:15:00	14.7	8.06	95.3
10/10/2006	14:30:00	14.9	8.01	95.2
10/10/2006	14:45:00	15.2	7.97	95.1
10/10/2006	15:00:00	15.4	7.93	95.0
10/10/2006	15:15:00	15.5	7.89	94.9
10/10/2006	15:30:00	15.7	7.85	94.7
10/10/2006	15:45:00	15.9	7.81	94.6
10/10/2006	16:00:00	16.1	7.77	94.5
10/10/2006	16:15:00	16.2	7.74	94.3
10/10/2006	16:30:00	16.3	7.70	94.1
10/10/2006	16:45:00	16.4	7.68	94.1
10/10/2006	17:00:00	16.5	7.66	93.9
10/10/2006	17:15:00	16.5	7.65	93.9
10/10/2006	17:30:00	16.5	7.63	93.7
10/10/2006	17:45:00	16.5	7.62	93.6
10/10/2006	18:00:00	16.5	7.61	93.6
10/10/2006	18:15:00	16.5	7.61	93.5
10/10/2006	18:30:00	16.6	7.61	93.5
10/10/2006	18:45:00	16.6	7.61	93.6
10/10/2006	19:00:00	16.6	7.60	93.5
10/10/2006	19:15:00	16.6	7.60	93.6

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/10/2006	19:30:00	16.6	7.60	93.6
10/10/2006	19:45:00	16.6	7.60	93.6
10/10/2006	20:00:00	16.7	7.61	93.7
10/10/2006	20:15:00	16.6	7.62	93.8
10/10/2006	20:30:00	16.6	7.63	93.9
10/10/2006	20:45:00	16.6	7.64	94.0
10/10/2006	21:00:00	16.5	7.65	94.1
10/10/2006	21:15:00	16.6	7.66	94.1
10/10/2006	21:30:00	16.6	7.65	94.0
10/10/2006	21:45:00	16.6	7.65	94.1
10/10/2006	22:00:00	16.6	7.64	94.1
10/10/2006	22:15:00	16.6	7.65	94.2
10/10/2006	22:30:00	16.6	7.66	94.3
10/10/2006	22:45:00	16.6	7.67	94.3
10/10/2006	23:00:00	16.5	7.68	94.3
10/10/2006	23:15:00	16.5	7.68	94.3
10/10/2006	23:30:00	16.5	7.68	94.3
10/10/2006	23:45:00	16.4	7.69	94.3
10/11/2006	0:00:00	16.4	7.69	94.3
10/11/2006	0:15:00	16.4	7.70	94.3
10/11/2006	0:30:00	16.3	7.71	94.3
10/11/2006	0:45:00	16.3	7.72	94.3
10/11/2006	1:00:00	16.2	7.73	94.4
10/11/2006	1:15:00	16.2	7.74	94.4
10/11/2006	1:30:00	16.2	7.75	94.5
10/11/2006	1:45:00	16.1	7.76	94.6
10/11/2006	2:00:00	16.1	7.78	94.6
10/11/2006	2:15:00	16.0	7.79	94.6
10/11/2006	2:30:00	15.9	7.80	94.6
10/11/2006	2:45:00	15.9	7.81	94.6
10/11/2006	3:00:00	15.8	7.83	94.6
10/11/2006	3:15:00	15.7	7.85	94.7
10/11/2006	3:30:00	15.6	7.86	94.6
10/11/2006	3:45:00	15.5	7.87	94.6
10/11/2006	4:00:00	15.4	7.89	94.5
10/11/2006	4:15:00	15.3	7.91	94.6
10/11/2006	4:30:00	15.1	7.93	94.6
10/11/2006	4:45:00	15.0	7.95	94.6
10/11/2006	5:00:00	14.9	7.97	94.6
10/11/2006	5:15:00	14.8	7.99	94.5
10/11/2006	5:30:00	14.7	8.00	94.5
10/11/2006	5:45:00	14.6	8.02	94.5
10/11/2006	6:00:00	14.5	8.04	94.5
10/11/2006	6:15:00	14.4	8.05	94.4
10/11/2006	6:30:00	14.3	8.07	94.4
10/11/2006	6:45:00	14.2	8.08	94.4
10/11/2006	7:00:00	14.1	8.10	94.4

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/11/2006	7:15:00	14.1	8.11	94.5
10/11/2006	7:30:00	14.0	8.13	94.5
10/11/2006	7:45:00	13.9	8.14	94.6
10/11/2006	8:00:00	13.9	8.16	94.6
10/11/2006	8:15:00	13.8	8.17	94.6
10/11/2006	8:30:00	13.8	8.18	94.7
10/11/2006	8:45:00	13.8	8.20	94.9
10/11/2006	9:00:00	13.8	8.21	95.1
10/11/2006	9:15:00	13.8	8.22	95.3
10/11/2006	9:30:00	13.9	8.23	95.5
10/11/2006	9:45:00	14.0	8.24	95.8
10/11/2006	10:00:00	14.0	8.25	96.0
10/11/2006	10:15:00	14.1	8.25	96.3
10/11/2006	10:30:00	14.3	8.25	96.5
10/11/2006	10:45:00	14.4	8.25	96.8
10/11/2006	11:00:00	14.5	8.26	97.1
10/11/2006	11:15:00	14.6	8.25	97.3
10/11/2006	11:30:00	14.8	8.25	97.6
10/11/2006	11:45:00	14.9	8.24	97.8
10/11/2006	12:00:00	15.1	8.23	98.0
10/11/2006	12:15:00	15.2	8.22	98.2
10/11/2006	12:30:00	15.4	8.20	98.3
10/11/2006	12:45:00	15.6	8.18	98.5
10/11/2006	13:00:00	15.7	8.17	98.6
10/11/2006	13:15:00	15.9	8.15	98.8
10/11/2006	13:30:00	16.0	8.14	98.9
10/11/2006	13:45:00	16.2	8.12	99.0
10/11/2006	14:00:00	16.4	8.09	99.1
10/11/2006	14:15:00	16.5	8.07	99.1
10/11/2006	14:30:00	16.6	8.05	99.1
10/11/2006	14:45:00	16.7	8.03	99.1
10/11/2006	15:00:00	16.9	8.00	99.0
10/11/2006	15:15:00	17.0	7.98	98.9
10/11/2006	15:30:00	17.0	7.96	98.8
10/11/2006	15:45:00	17.1	7.93	98.7
10/11/2006	16:00:00	17.2	7.92	98.6
10/11/2006	16:15:00	17.3	7.90	98.5
10/11/2006	16:30:00	17.3	7.88	98.4
10/11/2006	16:45:00	17.3	7.86	98.2
10/11/2006	17:00:00	17.3	7.85	98.1
10/11/2006	17:15:00	17.3	7.84	97.9
10/11/2006	17:30:00	17.3	7.82	97.7
10/11/2006	17:45:00	17.3	7.81	97.6
10/11/2006	18:00:00	17.3	7.80	97.4
10/11/2006	18:15:00	17.2	7.80	97.2
10/11/2006	18:30:00	17.2	7.79	97.0
10/11/2006	18:45:00	17.1	7.79	96.9

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/11/2006	19:00:00	17.1	7.79	96.8
10/11/2006	19:15:00	17.1	7.79	96.8
10/11/2006	19:30:00	17.1	7.79	96.8
10/11/2006	19:45:00	17.1	7.79	96.8
10/11/2006	20:00:00	17.1	7.80	96.9
10/11/2006	20:15:00	17.0	7.80	96.9
10/11/2006	20:30:00	17.0	7.81	96.9
10/11/2006	20:45:00	17.0	7.81	96.9
10/11/2006	21:00:00	17.0	7.82	96.9
10/11/2006	21:15:00	16.9	7.82	96.9
10/11/2006	21:30:00	16.9	7.82	96.9
10/11/2006	21:45:00	16.9	7.82	96.8
10/11/2006	22:00:00	16.9	7.82	96.8
10/11/2006	22:15:00	16.8	7.82	96.8
10/11/2006	22:30:00	16.8	7.83	96.7
10/11/2006	22:45:00	16.8	7.83	96.7
10/11/2006	23:00:00	16.8	7.83	96.6
10/11/2006	23:15:00	16.7	7.83	96.6
10/11/2006	23:30:00	16.7	7.84	96.6
10/11/2006	23:45:00	16.7	7.84	96.6
10/12/2006	0:00:00	16.6	7.85	96.6
10/12/2006	0:15:00	16.6	7.85	96.5
10/12/2006	0:30:00	16.5	7.86	96.5
10/12/2006	0:45:00	16.5	7.87	96.5
10/12/2006	1:00:00	16.4	7.87	96.5
10/12/2006	1:15:00	16.3	7.88	96.4
10/12/2006	1:30:00	16.2	7.89	96.3
10/12/2006	1:45:00	16.1	7.90	96.2
10/12/2006	2:00:00	16.0	7.91	96.1
10/12/2006	2:15:00	15.9	7.92	96.0
10/12/2006	2:30:00	15.8	7.94	95.9
10/12/2006	2:45:00	15.6	7.95	95.9
10/12/2006	3:00:00	15.5	7.97	95.8
10/12/2006	3:15:00	15.4	7.99	95.7
10/12/2006	3:30:00	15.2	8.00	95.6
10/12/2006	3:45:00	15.1	8.01	95.5
10/12/2006	4:00:00	15.0	8.03	95.4
10/12/2006	4:15:00	14.8	8.05	95.3
10/12/2006	4:30:00	14.7	8.06	95.2
10/12/2006	4:45:00	14.6	8.08	95.2
10/12/2006	5:00:00	14.5	8.09	95.1
10/12/2006	5:15:00	14.4	8.11	95.1
10/12/2006	5:30:00	14.3	8.12	95.0
10/12/2006	5:45:00	14.2	8.14	95.0
10/12/2006	6:00:00	14.1	8.15	94.9
10/12/2006	6:15:00	14.0	8.16	94.8
10/12/2006	6:30:00	13.9	8.17	94.8

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/12/2006	6:45:00	13.8	8.19	94.8
10/12/2006	7:00:00	13.7	8.20	94.8
10/12/2006	7:15:00	13.6	8.22	94.8
10/12/2006	7:30:00	13.6	8.23	94.8
10/12/2006	7:45:00	13.5	8.25	94.8
10/12/2006	8:00:00	13.4	8.26	94.8
10/12/2006	8:15:00	13.4	8.27	94.9
10/12/2006	8:30:00	13.4	8.28	95.0
10/12/2006	8:45:00	13.4	8.29	95.1
10/12/2006	9:00:00	13.5	8.29	95.3
10/12/2006	9:15:00	13.5	8.30	95.6
10/12/2006	9:30:00	13.6	8.31	95.8
10/12/2006	9:45:00	13.7	8.31	96.1
10/12/2006	10:00:00	13.8	8.32	96.4
10/12/2006	10:15:00	13.9	8.33	96.7
10/12/2006	10:30:00	14.1	8.33	97.0
10/12/2006	10:45:00	14.2	8.33	97.3
10/12/2006	11:00:00	14.3	8.33	97.5
10/12/2006	11:15:00	14.5	8.32	97.8
10/12/2006	11:30:00	14.6	8.32	98.0
10/12/2006	11:45:00	14.7	8.30	98.1
10/12/2006	12:00:00	14.9	8.29	98.2
10/12/2006	12:15:00	15.0	8.27	98.4
10/12/2006	12:30:00	15.2	8.25	98.5
10/12/2006	12:45:00	15.3	8.23	98.6
10/12/2006	13:00:00	15.5	8.22	98.7
10/12/2006	13:15:00	15.6	8.20	98.9
10/12/2006	13:30:00	15.8	8.18	98.9
10/12/2006	13:45:00	16.0	8.16	99.0
10/12/2006	14:00:00	16.1	8.14	99.1
10/12/2006	14:15:00	16.3	8.12	99.2
10/12/2006	14:30:00	16.4	8.10	99.1
10/12/2006	14:45:00	16.5	8.07	99.1
10/12/2006	15:00:00	16.6	8.05	99.1
10/12/2006	15:15:00	16.7	8.03	99.0
10/12/2006	15:30:00	16.8	8.01	99.0
10/12/2006	15:45:00	16.9	7.99	98.9
10/12/2006	16:00:00	17.0	7.97	98.8
10/12/2006	16:15:00	17.0	7.95	98.7
10/12/2006	16:30:00	17.0	7.94	98.6
10/12/2006	16:45:00	17.1	7.92	98.4
10/12/2006	17:00:00	17.1	7.90	98.3
10/12/2006	17:15:00	17.1	7.89	98.1
10/12/2006	17:30:00	17.1	7.88	98.0
10/12/2006	17:45:00	17.1	7.87	97.9
10/12/2006	18:00:00	17.1	7.86	97.8
10/12/2006	18:15:00	17.1	7.86	97.7

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/12/2006	18:30:00	17.1	7.85	97.5
10/12/2006	18:45:00	17.0	7.85	97.5
10/12/2006	19:00:00	17.0	7.85	97.4
10/12/2006	19:15:00	17.0	7.86	97.4
10/12/2006	19:30:00	16.9	7.86	97.3
10/12/2006	19:45:00	16.9	7.86	97.3
10/12/2006	20:00:00	16.9	7.87	97.3
10/12/2006	20:15:00	16.8	7.87	97.3
10/12/2006	20:30:00	16.8	7.88	97.3
10/12/2006	20:45:00	16.7	7.89	97.3
10/12/2006	21:00:00	16.7	7.89	97.3
10/12/2006	21:15:00	16.7	7.90	97.4
10/12/2006	21:30:00	16.7	7.91	97.4
10/12/2006	21:45:00	16.7	7.92	97.5
10/12/2006	22:00:00	16.6	7.92	97.5
10/12/2006	22:15:00	16.6	7.92	97.5
10/12/2006	22:30:00	16.6	7.93	97.4
10/12/2006	22:45:00	16.5	7.93	97.5
10/12/2006	23:00:00	16.5	7.94	97.5
10/12/2006	23:15:00	16.5	7.94	97.4
10/12/2006	23:30:00	16.4	7.94	97.3
10/12/2006	23:45:00	16.4	7.95	97.3
10/13/2006	0:00:00	16.3	7.96	97.2
10/13/2006	0:15:00	16.2	7.96	97.1
10/13/2006	0:30:00	16.1	7.97	97.1
10/13/2006	0:45:00	16.1	7.97	97.0
10/13/2006	1:00:00	16.0	7.98	96.9
10/13/2006	1:15:00	15.9	7.98	96.8
10/13/2006	1:30:00	15.8	7.99	96.7
10/13/2006	1:45:00	15.7	8.00	96.6
10/13/2006	2:00:00	15.6	8.00	96.5
10/13/2006	2:15:00	15.5	8.01	96.3
10/13/2006	2:30:00	15.4	8.02	96.2
10/13/2006	2:45:00	15.3	8.03	96.1
10/13/2006	3:00:00	15.2	8.04	96.0
10/13/2006	3:15:00	15.1	8.05	95.8
10/13/2006	3:30:00	15.0	8.06	95.7
10/13/2006	3:45:00	14.8	8.07	95.6
10/13/2006	4:00:00	14.7	8.09	95.5
10/13/2006	4:15:00	14.6	8.10	95.4
10/13/2006	4:30:00	14.5	8.11	95.3
10/13/2006	4:45:00	14.4	8.12	95.2
10/13/2006	5:00:00	14.3	8.13	95.1
10/13/2006	5:15:00	14.2	8.15	95.1
10/13/2006	5:30:00	14.1	8.17	95.1
10/13/2006	5:45:00	14.0	8.19	95.2
10/13/2006	6:00:00	13.9	8.20	95.2

Table 5.7. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/13/2006	6:15:00	13.8	8.21	95.0
10/13/2006	6:30:00	13.7	8.22	95.0
10/13/2006	6:45:00	13.6	8.23	94.9
10/13/2006	7:00:00	13.5	8.24	94.9
10/13/2006	7:15:00	13.5	8.25	94.8
10/13/2006	7:30:00	13.4	8.27	94.8
10/13/2006	7:45:00	13.3	8.28	94.8
10/13/2006	8:00:00	13.3	8.29	94.9
10/13/2006	8:15:00	13.3	8.30	95.0
10/13/2006	8:30:00	13.2	8.32	95.1
10/13/2006	8:45:00	13.2	8.33	95.2
10/13/2006	9:00:00	13.2	8.34	95.4
10/13/2006	9:15:00	13.3	8.36	95.6
10/13/2006	9:30:00	13.3	8.35	95.7

Table 5.8. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006.
[Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**site1_10_6_06**
Setup	**Date**	**(MMDDYY)**	**:**	**100606**
Setup	**Time**	**(HHMMSS)**	**:**	**144903**
Starting	**Date**	**(MMDDYY)**	**:**	**100606**
Starting	**Time**	**(HHMMSS)**	**:**	**150000**
Stopping	**Date**	**(MMDDYY)**	**:**	**101306**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time HHMMSS	Temp (C)	SpCond uS/cm	pH Std Units	DO (mg/L)	DO Saturation (%)
10/06/2006	14:45:00	19.6	303	8.38	7.57	98.2
10/06/2006	15:00:00	19.6	303	8.38	7.59	98.3
10/06/2006	15:15:00	19.5	303	8.39	7.58	98.1
10/06/2006	15:30:00	19.5	301	8.38	7.56	97.8
10/06/2006	15:45:00	19.4	301	8.38	7.54	97.5
10/06/2006	16:00:00	19.4	302	8.38	7.53	97.4
10/06/2006	16:15:00	19.4	302	8.38	7.53	97.3
10/06/2006	16:30:00	19.5	301	8.38	7.51	97.2
10/06/2006	16:45:00	19.5	301	8.38	7.50	97.0
10/06/2006	17:00:00	19.4	300	8.38	7.50	96.8
10/06/2006	17:15:00	19.3	301	8.39	7.45	96.0
10/06/2006	17:30:00	19.2	300	8.39	7.45	95.9
10/06/2006	17:45:00	19.1	300	8.39	7.45	95.7
10/06/2006	18:00:00	19.1	300	8.38	7.43	95.3
10/06/2006	18:15:00	18.9	300	8.38	7.41	94.9
10/06/2006	18:30:00	18.9	299	8.40	7.47	95.5
10/06/2006	18:45:00	18.7	299	8.39	7.43	94.7
10/06/2006	19:00:00	18.6	299	8.40	7.40	94.1
10/06/2006	19:15:00	18.5	298	8.40	7.40	93.9
10/06/2006	19:30:00	18.4	298	8.40	7.36	93.2
10/06/2006	19:45:00	18.4	300	8.41	7.36	93.2
10/06/2006	20:00:00	18.3	298	8.40	7.34	92.7
10/06/2006	20:15:00	18.3	299	8.40	7.35	92.8
10/06/2006	20:30:00	18.2	299	8.40	7.34	92.5
10/06/2006	20:45:00	18.1	297	8.41	7.35	92.5
10/06/2006	21:00:00	18.1	297	8.40	7.35	92.4
10/06/2006	21:15:00	18.0	297	8.41	7.34	92.2
10/06/2006	21:30:00	18.0	296	8.41	7.34	92.0
10/06/2006	21:45:00	17.9	295	8.41	7.36	92.2
10/06/2006	22:00:00	17.9	297	8.42	7.34	91.9
10/06/2006	22:15:00	17.8	296	8.42	7.37	92.2
10/06/2006	22:30:00	17.8	297	8.43	7.34	91.7
10/06/2006	22:45:00	17.7	295	8.43	7.38	92.1
10/07/2006	23:00:00	17.7	296	8.44	7.38	92.1

Table 5.8. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006.
[Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/07/2006	23:15:00	17.7	297	8.44	7.36	91.8
10/07/2006	23:30:00	17.6	295	8.45	7.38	91.9
10/07/2006	23:45:00	17.6	295	8.45	7.37	91.7
10/07/2006	0:00:00	17.5	296	8.47	7.35	91.4
10/07/2006	0:15:00	17.5	296	8.47	7.38	91.7
10/07/2006	0:30:00	17.5	296	8.48	7.40	91.9
10/07/2006	0:45:00	17.5	296	8.47	7.40	91.8
10/07/2006	1:00:00	17.4	296	8.49	7.40	91.7
10/07/2006	1:15:00	17.4	296	8.49	7.40	91.8
10/07/2006	1:30:00	17.3	296	8.50	7.37	91.3
10/07/2006	1:45:00	17.3	296	8.50	7.40	91.7
10/07/2006	2:00:00	17.3	295	8.51	7.41	91.7
10/07/2006	2:15:00	17.3	295	8.52	7.39	91.4
10/07/2006	2:30:00	17.3	295	8.53	7.39	91.4
10/07/2006	2:45:00	17.3	295	8.54	7.40	91.5
10/07/2006	3:00:00	17.2	294	8.56	7.42	91.8
10/07/2006	3:15:00	17.2	294	8.56	7.39	91.4
10/07/2006	3:30:00	17.2	294	8.58	7.40	91.5
10/07/2006	3:45:00	17.2	294	8.59	7.39	91.3
10/07/2006	4:00:00	17.2	294	8.59	7.40	91.5
10/07/2006	4:15:00	17.2	293	8.59	7.38	91.2
10/07/2006	4:30:00	17.2	293	8.62	7.40	91.3
10/07/2006	4:45:00	17.2	293	8.64	7.39	91.2
10/07/2006	5:00:00	17.2	293	8.64	7.42	91.5
10/07/2006	5:15:00	17.2	293	8.65	7.42	91.6
10/07/2006	5:30:00	17.1	293	8.66	7.43	91.7
10/07/2006	5:45:00	17.1	293	8.66	7.40	91.3
10/07/2006	6:00:00	17.1	293	8.68	7.41	91.3
10/07/2006	6:15:00	17.1	293	8.68	7.40	91.1
10/07/2006	6:30:00	17.1	293	8.68	7.41	91.2
10/07/2006	6:45:00	17.1	292	8.70	7.39	91.0
10/07/2006	7:00:00	17.0	292	8.68	7.38	90.8
10/07/2006	7:15:00	17.0	292	8.69	7.41	91.2
10/07/2006	7:30:00	17.0	293	8.68	7.42	91.3
10/07/2006	7:45:00	17.0	293	8.69	7.43	91.3
10/07/2006	8:00:00	17.0	293	8.68	7.43	91.3
10/07/2006	8:15:00	17.0	293	8.67	7.42	91.2
10/07/2006	8:30:00	16.9	293	8.66	7.44	91.4
10/07/2006	8:45:00	16.9	293	8.66	7.46	91.6
10/07/2006	9:00:00	16.9	293	8.65	7.46	91.6
10/07/2006	9:15:00	17.0	294	8.63	7.49	92.0
10/07/2006	9:30:00	17.0	294	8.62	7.50	92.2
10/07/2006	9:45:00	17.0	294	8.60	7.50	92.3
10/07/2006	10:00:00	17.1	295	8.58	7.49	92.3
10/07/2006	10:15:00	17.1	295	8.57	7.48	92.3
10/07/2006	10:30:00	17.2	295	8.55	7.48	92.4
10/07/2006	10:45:00	17.2	295	8.54	7.50	92.8
10/07/2006	11:00:00	17.4	296	8.52	7.50	93.0

Table 5.8. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006.
[Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/07/2006	11:15:00	17.5	296	8.51	7.53	93.5
10/07/2006	11:30:00	17.7	296	8.49	7.53	93.9
10/07/2006	11:45:00	17.8	297	8.47	7.52	94.1
10/07/2006	12:00:00	18.0	297	8.46	7.54	94.7
10/07/2006	12:15:00	18.2	297	8.44	7.52	94.8
10/07/2006	12:30:00	18.4	298	8.43	7.51	95.0
10/07/2006	12:45:00	18.5	298	8.42	7.55	95.8
10/07/2006	13:00:00	18.7	298	8.41	7.52	95.8
10/07/2006	13:15:00	18.8	298	8.39	7.51	95.9
10/07/2006	13:30:00	19.0	299	8.38	7.53	96.5
10/07/2006	13:45:00	19.2	299	8.39	7.50	96.6
10/07/2006	14:00:00	19.4	299	8.38	7.45	96.3
10/07/2006	14:15:00	19.6	299	8.36	7.49	97.2
10/07/2006	14:30:00	19.8	300	8.36	7.49	97.5
10/07/2006	14:45:00	19.9	300	8.35	7.45	97.3
10/07/2006	15:00:00	20.0	300	8.35	7.40	96.8
10/07/2006	15:15:00	20.0	300	8.34	7.40	96.7
10/07/2006	15:30:00	19.9	300	8.34	7.33	95.6
10/07/2006	15:45:00	19.8	300	8.34	7.34	95.5
10/07/2006	16:00:00	19.6	300	8.34	7.31	94.8
10/07/2006	16:15:00	19.5	300	8.34	7.36	95.2
10/07/2006	16:30:00	19.4	300	8.34	7.30	94.3
10/07/2006	16:45:00	19.3	300	8.35	7.32	94.4
10/07/2006	17:00:00	19.2	300	8.34	7.30	94.0
10/07/2006	17:15:00	19.1	300	8.35	7.30	93.7
10/07/2006	17:30:00	19.0	300	8.35	7.32	93.9
10/07/2006	17:45:00	19.0	300	8.36	7.30	93.5
10/07/2006	18:00:00	18.9	300	8.33	7.27	92.8
10/07/2006	18:15:00	18.8	300	8.35	7.30	93.1
10/07/2006	18:30:00	18.7	300	8.35	7.31	93.1
10/07/2006	18:45:00	18.6	300	8.35	7.40	94.1
10/07/2006	19:00:00	18.5	300	8.36	7.30	92.6
10/07/2006	19:15:00	18.5	299	8.35	7.32	92.7
10/07/2006	19:30:00	18.4	299	8.36	7.32	92.6
10/07/2006	19:45:00	18.3	299	8.36	7.37	93.1
10/07/2006	20:00:00	18.2	299	8.36	7.37	92.9
10/07/2006	20:15:00	18.1	299	8.36	7.37	92.7
10/07/2006	20:30:00	17.9	299	8.36	7.38	92.5
10/07/2006	20:45:00	17.8	299	8.37	7.39	92.5
10/07/2006	21:00:00	17.8	299	8.38	7.39	92.3
10/07/2006	21:15:00	17.7	299	8.38	7.39	92.3
10/07/2006	21:30:00	17.7	299	8.38	7.40	92.5
10/07/2006	21:45:00	17.7	299	8.38	7.42	92.6
10/07/2006	22:00:00	17.7	298	8.38	7.43	92.7
10/07/2006	22:15:00	17.7	298	8.39	7.42	92.5
10/07/2006	22:30:00	17.7	298	8.39	7.41	92.5
10/07/2006	22:45:00	17.7	298	8.40	7.37	92.0
10/08/2006	23:00:00	17.7	298	8.39	7.41	92.5

Table 5.8. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006.
[Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/08/2006	23:15:00	17.7	298	8.39	7.43	92.7
10/08/2006	23:30:00	17.6	298	8.41	7.42	92.4
10/08/2006	23:45:00	17.6	298	8.40	7.48	93.2
10/08/2006	0:00:00	17.6	298	8.41	7.47	93.0
10/08/2006	0:15:00	17.6	298	8.41	7.49	93.2
10/08/2006	0:30:00	17.6	298	8.42	7.48	93.1
10/08/2006	0:45:00	17.6	298	8.43	7.48	93.0
10/08/2006	1:00:00	17.5	298	8.43	7.47	92.8
10/08/2006	1:15:00	17.5	298	8.43	7.47	92.8
10/08/2006	1:30:00	17.5	298	8.44	7.49	93.0
10/08/2006	1:45:00	17.5	297	8.45	7.51	93.2
10/08/2006	2:00:00	17.5	297	8.45	7.51	93.3
10/08/2006	2:15:00	17.5	297	8.46	7.50	93.1
10/08/2006	2:30:00	17.4	297	8.47	7.51	93.3
10/08/2006	2:45:00	17.4	296	8.48	7.54	93.5
10/08/2006	3:00:00	17.4	296	8.49	7.53	93.4
10/08/2006	3:15:00	17.4	296	8.50	7.53	93.4
10/08/2006	3:30:00	17.4	295	8.51	7.57	93.8
10/08/2006	3:45:00	17.3	295	8.52	7.52	93.1
10/08/2006	4:00:00	17.3	295	8.54	7.53	93.3
10/08/2006	4:15:00	17.3	295	8.55	7.50	92.9
10/08/2006	4:30:00	17.3	294	8.56	7.54	93.3
10/08/2006	4:45:00	17.3	294	8.58	7.54	93.3
10/08/2006	5:00:00	17.3	294	8.58	7.51	92.9
10/08/2006	5:15:00	17.2	294	8.60	7.51	92.8
10/08/2006	5:30:00	17.2	293	8.61	7.54	93.2
10/08/2006	5:45:00	17.2	293	8.61	7.52	92.8
10/08/2006	6:00:00	17.2	293	8.62	7.48	92.3
10/08/2006	6:15:00	17.1	293	8.63	7.51	92.7
10/08/2006	6:30:00	17.1	293	8.64	7.51	92.6
10/08/2006	6:45:00	17.1	293	8.64	7.56	93.1
10/08/2006	7:00:00	17.1	293	8.64	7.55	92.9
10/08/2006	7:15:00	17.0	293	8.64	7.57	93.2
10/08/2006	7:30:00	17.0	293	8.64	7.59	93.4
10/08/2006	7:45:00	17.0	293	8.63	7.60	93.3
10/08/2006	8:00:00	16.9	293	8.62	7.61	93.5
10/08/2006	8:15:00	16.9	294	8.62	7.63	93.7
10/08/2006	8:30:00	16.9	294	8.61	7.64	93.8
10/08/2006	8:45:00	16.9	294	8.59	7.66	94.1
10/08/2006	9:00:00	16.9	294	8.58	7.65	94.0
10/08/2006	9:15:00	17.0	295	8.56	7.67	94.2
10/08/2006	9:30:00	17.0	295	8.56	7.67	94.3
10/08/2006	9:45:00	17.0	295	8.55	7.68	94.4
10/08/2006	10:00:00	17.0	295	8.53	7.67	94.4
10/08/2006	10:15:00	17.1	296	8.51	7.75	95.4
10/08/2006	10:30:00	17.1	296	8.50	7.75	95.5
10/08/2006	10:45:00	17.1	296	8.49	7.73	95.3
10/08/2006	11:00:00	17.1	296	8.47	7.76	95.7

Table 5.8. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/08/2006	11:15:00	17.2	297	8.46	7.80	96.3
10/08/2006	11:30:00	17.3	297	8.45	7.76	96.1
10/08/2006	11:45:00	17.4	297	8.43	7.79	96.7
10/08/2006	12:00:00	17.5	298	8.42	7.82	97.2
Power	loss	from	100806	121500	to	101306

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:16:48
Report from file:	...\SN45473 2006-10-06 160000 site2_10_6_06.bin	
Win-Situ Version		4.55.3.0
Serial number:		45473
Firmware Version		1.58
Unit name:		Nike
Barometric Pressure:	636.383	mmHg
Test defined on:	10/6/2006	15:13:40
Test scheduled for:	10/6/2006	16:00:00
Test started on:	10/6/2006	16:00:00
Test stopped on:	10/12/2006	15:24:35
Data gathered using linear testing		
Time between data points	900	seconds
Number of data samples:	549	

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/6/2006	16:00:00	21.1	7.71	104.1
10/6/2006	16:15:00	21.1	7.69	103.7
10/6/2006	16:30:00	21.0	7.65	103.0
10/6/2006	16:45:00	20.9	7.71	103.6
10/6/2006	17:00:00	20.8	7.71	103.3
10/6/2006	17:15:00	20.6	7.71	103.0
10/6/2006	17:30:00	20.5	7.70	102.7
10/6/2006	17:45:00	20.3	7.71	102.4
10/6/2006	18:00:00	20.1	7.72	102.1
10/6/2006	18:15:00	19.9	7.72	101.7
10/6/2006	18:30:00	19.7	7.71	101.2
10/6/2006	18:45:00	19.6	7.72	100.9
10/6/2006	19:00:00	19.4	7.72	100.6
10/6/2006	19:15:00	19.3	7.70	100.2
10/6/2006	19:30:00	19.2	7.72	100.2
10/6/2006	19:45:00	19.1	7.73	100.1
10/6/2006	20:00:00	18.9	7.73	99.9
10/6/2006	20:15:00	18.8	7.74	99.6
10/6/2006	20:30:00	18.7	7.74	99.4
10/6/2006	20:45:00	18.6	7.75	99.3
10/6/2006	21:00:00	18.5	7.75	99.2
10/6/2006	21:15:00	18.5	7.75	99.0
10/6/2006	21:30:00	18.4	7.74	98.9
10/6/2006	21:45:00	18.4	7.74	98.9
10/6/2006	22:00:00	18.4	7.75	98.9
10/6/2006	22:15:00	18.3	7.75	98.8
10/6/2006	22:30:00	18.2	7.76	98.8
10/6/2006	22:45:00	18.2	7.77	98.7
10/6/2006	23:00:00	18.1	7.77	98.7

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/6/2006	23:15:00	18.1	7.77	98.6
10/6/2006	23:30:00	18.1	7.77	98.6
10/6/2006	23:45:00	18.0	7.78	98.6
10/7/2006	0:00:00	18.0	7.78	98.5
10/7/2006	0:15:00	17.9	7.79	98.5
10/7/2006	0:30:00	17.9	7.79	98.5
10/7/2006	0:45:00	17.8	7.80	98.5
10/7/2006	1:00:00	17.8	7.81	98.5
10/7/2006	1:15:00	17.8	7.82	98.5
10/7/2006	1:30:00	17.7	7.82	98.4
10/7/2006	1:45:00	17.7	7.83	98.5
10/7/2006	2:00:00	17.6	7.84	98.5
10/7/2006	2:15:00	17.5	7.85	98.5
10/7/2006	2:30:00	17.5	7.86	98.5
10/7/2006	2:45:00	17.4	7.87	98.4
10/7/2006	3:00:00	17.4	7.87	98.4
10/7/2006	3:15:00	17.3	7.88	98.4
10/7/2006	3:30:00	17.3	7.89	98.4
10/7/2006	3:45:00	17.3	7.89	98.4
10/7/2006	4:00:00	17.2	7.90	98.4
10/7/2006	4:15:00	17.2	7.91	98.4
10/7/2006	4:30:00	17.1	7.92	98.5
10/7/2006	4:45:00	17.1	7.93	98.5
10/7/2006	5:00:00	17.0	7.94	98.5
10/7/2006	5:15:00	17.0	7.94	98.5
10/7/2006	5:30:00	17.0	7.95	98.5
10/7/2006	5:45:00	16.9	7.96	98.6
10/7/2006	6:00:00	16.9	7.97	98.6
10/7/2006	6:15:00	16.9	7.98	98.6
10/7/2006	6:30:00	16.8	7.98	98.7
10/7/2006	6:45:00	16.8	7.99	98.7
10/7/2006	7:00:00	16.8	8.00	98.7
10/7/2006	7:15:00	16.7	8.01	98.8
10/7/2006	7:30:00	16.7	8.01	98.8
10/7/2006	7:45:00	16.7	8.03	98.9
10/7/2006	8:00:00	16.7	8.04	99.1
10/7/2006	8:15:00	16.7	8.05	99.3
10/7/2006	8:30:00	16.7	8.07	99.4
10/7/2006	8:45:00	16.8	8.08	99.7
10/7/2006	9:00:00	16.8	8.09	100.0
10/7/2006	9:15:00	16.9	8.11	100.2
10/7/2006	9:30:00	16.9	8.12	100.5
10/7/2006	9:45:00	16.9	8.13	100.7
10/7/2006	10:00:00	17.0	8.14	101.0
10/7/2006	10:15:00	17.1	8.14	101.2
10/7/2006	10:30:00	17.2	8.14	101.4
10/7/2006	10:45:00	17.3	8.14	101.7

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/7/2006	11:00:00	17.5	8.14	102.1
10/7/2006	11:15:00	17.8	8.13	102.7
10/7/2006	11:30:00	18.1	8.11	103.0
10/7/2006	11:45:00	18.5	8.10	103.6
10/7/2006	12:00:00	18.8	8.09	104.1
10/7/2006	12:15:00	19.2	8.07	104.7
10/7/2006	12:30:00	19.5	8.05	105.2
10/7/2006	12:45:00	19.9	8.04	105.9
10/7/2006	13:00:00	20.3	8.02	106.4
10/7/2006	13:15:00	20.6	7.99	106.8
10/7/2006	13:30:00	20.9	7.97	107.1
10/7/2006	13:45:00	21.2	7.95	107.3
10/7/2006	14:00:00	21.5	7.93	107.7
10/7/2006	14:15:00	21.8	7.90	107.9
10/7/2006	14:30:00	21.9	7.87	107.9
10/7/2006	14:45:00	21.9	7.85	107.7
10/7/2006	15:00:00	21.8	7.84	107.2
10/7/2006	15:15:00	21.6	7.83	106.7
10/7/2006	15:30:00	21.5	7.82	106.3
10/7/2006	15:45:00	21.4	7.80	105.8
10/7/2006	16:00:00	21.2	7.79	105.3
10/7/2006	16:15:00	21.1	7.78	105.0
10/7/2006	16:30:00	21.0	7.77	104.7
10/7/2006	16:45:00	21.0	7.77	104.5
10/7/2006	17:00:00	20.9	7.77	104.4
10/7/2006	17:15:00	20.8	7.76	104.0
10/7/2006	17:30:00	20.7	7.75	103.6
10/7/2006	17:45:00	20.6	7.74	103.2
10/7/2006	18:00:00	20.4	7.73	102.8
10/7/2006	18:15:00	20.4	7.71	102.4
10/7/2006	18:30:00	20.2	7.70	102.0
10/7/2006	18:45:00	20.1	7.69	101.6
10/7/2006	19:00:00	19.9	7.68	101.2
10/7/2006	19:15:00	19.8	7.67	100.8
10/7/2006	19:30:00	19.6	7.66	100.4
10/7/2006	19:45:00	19.5	7.67	100.1
10/7/2006	20:00:00	19.3	7.67	99.8
10/7/2006	20:15:00	19.2	7.68	99.6
10/7/2006	20:30:00	19.1	7.68	99.3
10/7/2006	20:45:00	18.9	7.66	99.0
10/7/2006	21:00:00	18.8	7.68	98.9
10/7/2006	21:15:00	18.7	7.69	98.8
10/7/2006	21:30:00	18.7	7.69	98.7
10/7/2006	21:45:00	18.6	7.67	98.4
10/7/2006	22:00:00	18.6	7.57	97.0
10/7/2006	22:15:00	18.6	7.46	95.6
10/7/2006	22:30:00	18.5	7.36	94.1

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/7/2006	22:45:00	18.4	7.28	93.0
10/7/2006	23:00:00	18.3	7.28	92.7
10/7/2006	23:15:00	18.2	7.36	93.5
10/7/2006	23:30:00	18.0	7.75	98.2
10/7/2006	23:45:00	17.9	7.76	98.2
10/8/2006	0:00:00	17.9	7.77	98.0
10/8/2006	0:15:00	17.8	7.76	97.8
10/8/2006	0:30:00	17.7	7.80	98.2
10/8/2006	0:45:00	17.6	7.81	98.1
10/8/2006	1:00:00	17.5	7.84	98.2
10/8/2006	1:15:00	17.5	7.85	98.3
10/8/2006	1:30:00	17.4	7.85	98.3
10/8/2006	1:45:00	17.4	7.87	98.4
10/8/2006	2:00:00	17.4	7.88	98.4
10/8/2006	2:15:00	17.3	7.89	98.4
10/8/2006	2:30:00	17.3	7.89	98.4
10/8/2006	2:45:00	17.2	7.90	98.4
10/8/2006	3:00:00	17.2	7.88	98.1
10/8/2006	3:15:00	17.1	7.91	98.3
10/8/2006	3:30:00	17.0	7.94	98.5
10/8/2006	3:45:00	17.0	7.95	98.5
10/8/2006	4:00:00	16.9	7.90	97.8
10/8/2006	4:15:00	16.9	7.79	96.3
10/8/2006	4:30:00	16.9	7.78	96.1
10/8/2006	4:45:00	16.8	7.71	95.3
10/8/2006	5:00:00	16.8	7.64	94.3
10/8/2006	5:15:00	16.8	7.65	94.4
10/8/2006	5:30:00	16.8	7.64	94.2
10/8/2006	5:45:00	16.7	7.61	93.8
10/8/2006	6:00:00	16.7	7.67	94.6
10/8/2006	6:15:00	16.7	7.98	98.2
10/8/2006	6:30:00	16.6	8.03	98.8
10/8/2006	6:45:00	16.6	8.04	98.9
10/8/2006	7:00:00	16.6	8.00	98.3
10/8/2006	7:15:00	16.6	8.03	98.6
10/8/2006	7:30:00	16.6	8.04	98.7
10/8/2006	7:45:00	16.6	8.01	98.4
10/8/2006	8:00:00	16.6	7.93	97.5
10/8/2006	8:15:00	16.6	7.93	97.4
10/8/2006	8:30:00	16.6	8.05	99.0
10/8/2006	8:45:00	16.6	8.07	99.3
10/8/2006	9:00:00	16.7	8.09	99.7
10/8/2006	9:15:00	16.8	8.09	99.8
10/8/2006	9:30:00	16.8	8.04	99.3
10/8/2006	9:45:00	16.9	7.98	98.7
10/8/2006	10:00:00	16.9	8.06	99.8
10/8/2006	10:15:00	17.0	7.96	98.7

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/8/2006	10:30:00	17.1	7.91	98.3
10/8/2006	10:45:00	17.1	7.86	97.8
10/8/2006	11:00:00	17.3	7.91	98.7
10/8/2006	11:15:00	17.5	8.00	100.4
10/8/2006	11:30:00	17.8	8.03	101.2
10/8/2006	11:45:00	18.0	7.97	100.9
10/8/2006	12:00:00	18.3	7.89	100.6
10/8/2006	12:15:00	18.5	7.89	101.0
10/8/2006	12:30:00	18.8	7.90	101.8
10/8/2006	12:45:00	19.1	7.89	102.2
10/8/2006	13:00:00	19.2	7.83	101.5
10/8/2006	13:15:00	19.3	7.89	102.7
10/8/2006	13:30:00	19.4	7.86	102.5
10/8/2006	13:45:00	19.4	7.75	101.0
10/8/2006	14:00:00	19.5	7.69	100.4
10/8/2006	14:15:00	19.5	7.63	99.6
10/8/2006	14:30:00	19.5	7.62	99.5
10/8/2006	14:45:00	19.3	7.69	100.0
10/8/2006	15:00:00	19.2	7.74	100.5
10/8/2006	15:15:00	19.2	7.87	102.2
10/8/2006	15:30:00	19.2	7.99	103.8
10/8/2006	15:45:00	19.4	7.99	104.0
10/8/2006	16:00:00	19.3	7.97	103.8
10/8/2006	16:15:00	19.2	7.99	103.7
10/8/2006	16:30:00	19.1	7.98	103.3
10/8/2006	16:45:00	18.9	7.96	102.7
10/8/2006	17:00:00	18.7	7.97	102.4
10/8/2006	17:15:00	18.5	7.96	102.0
10/8/2006	17:30:00	18.4	7.89	100.7
10/8/2006	17:45:00	18.3	7.87	100.2
10/8/2006	18:00:00	18.2	7.79	99.1
10/8/2006	18:15:00	18.0	7.98	101.1
10/8/2006	18:30:00	17.9	7.90	99.9
10/8/2006	18:45:00	17.8	7.95	100.2
10/8/2006	19:00:00	17.6	7.99	100.3
10/8/2006	19:15:00	17.6	7.96	99.9
10/8/2006	19:30:00	17.5	7.90	98.9
10/8/2006	19:45:00	17.4	7.83	98.0
10/8/2006	20:00:00	17.3	7.76	96.9
10/8/2006	20:15:00	17.3	7.65	95.5
10/8/2006	20:30:00	17.2	7.61	94.8
10/8/2006	20:45:00	17.1	7.60	94.5
10/8/2006	21:00:00	17.0	7.54	93.5
10/8/2006	21:15:00	17.0	7.54	93.5
10/8/2006	21:30:00	16.9	7.60	94.1
10/8/2006	21:45:00	16.8	7.93	97.9
10/8/2006	22:00:00	16.7	7.95	98.1

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/8/2006	22:15:00	16.7	8.01	98.6
10/8/2006	22:30:00	16.6	7.98	98.0
10/8/2006	22:45:00	16.5	8.01	98.2
10/8/2006	23:00:00	16.4	8.02	98.2
10/8/2006	23:15:00	16.3	8.03	98.1
10/8/2006	23:30:00	16.2	8.04	98.1
10/8/2006	23:45:00	16.1	7.97	97.1
10/9/2006	0:00:00	16.1	8.06	97.9
10/9/2006	0:15:00	16.0	8.07	97.9
10/9/2006	0:30:00	15.9	8.08	97.8
10/9/2006	0:45:00	15.8	8.09	97.8
10/9/2006	1:00:00	15.7	8.08	97.6
10/9/2006	1:15:00	15.7	7.98	96.2
10/9/2006	1:30:00	15.6	8.12	97.8
10/9/2006	1:45:00	15.5	8.10	97.4
10/9/2006	2:00:00	15.5	8.15	97.8
10/9/2006	2:15:00	15.3	8.15	97.5
10/9/2006	2:30:00	15.3	8.05	96.2
10/9/2006	2:45:00	15.2	7.97	95.1
10/9/2006	3:00:00	15.2	7.86	93.7
10/9/2006	3:15:00	15.1	7.73	92.0
10/9/2006	3:30:00	15.1	7.64	90.9
10/9/2006	3:45:00	15.0	7.60	90.3
10/9/2006	4:00:00	14.9	7.62	90.3
10/9/2006	4:15:00	14.9	7.75	91.9
10/9/2006	4:30:00	14.8	7.77	92.0
10/9/2006	4:45:00	14.8	7.74	91.5
10/9/2006	5:00:00	14.7	7.69	90.8
10/9/2006	5:15:00	14.7	7.63	90.0
10/9/2006	5:30:00	15.4	7.67	91.9
10/9/2006	5:45:00	14.8	7.47	88.3
10/9/2006	6:00:00	14.5	8.09	95.1
10/9/2006	6:15:00	14.5	7.73	90.8
10/9/2006	6:30:00	14.4	6.78	79.6
10/9/2006	6:45:00	14.4	6.01	70.4
10/9/2006	7:00:00	14.3	5.11	59.8
10/9/2006	7:15:00	14.2	4.39	51.3
10/9/2006	7:30:00	14.1	3.87	45.1*
10/9/2006	7:45:00	14.1	3.48	40.6
10/9/2006	8:00:00	14.1	3.24	37.7
10/9/2006	8:15:00	14.1	3.05	35.5
10/9/2006	8:30:00	14.2	2.89	33.8
10/9/2006	8:45:00	14.2	2.78	32.5
10/9/2006	9:00:00	14.3	2.70	31.6
10/9/2006	9:15:00	14.4	2.65	31.1
10/9/2006	9:30:00	14.6	2.61	30.7
10/9/2006	9:45:00	14.7	2.59	30.6

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/9/2006	10:00:00	15.0	2.58	30.6
10/9/2006	10:15:00	15.1	2.57	30.5
10/9/2006	10:30:00	15.2	2.56	30.6
10/9/2006	10:45:00	15.5	2.57	30.8
10/9/2006	11:00:00	15.7	2.58	31.1
10/9/2006	11:15:00	15.8	2.62	31.6
10/9/2006	11:30:00	15.8	2.67	32.3
10/9/2006	11:45:00	15.9	2.72	32.9
10/9/2006	12:00:00	16.1	2.76	33.6
10/9/2006	12:15:00	16.5	2.78	34.1
10/9/2006	12:30:00	16.9	2.79	34.5
10/9/2006	12:45:00	17.0	2.80	34.7
10/9/2006	13:00:00	17.2	2.80	34.9
10/9/2006	13:15:00	17.3	2.81	35.0
10/9/2006	13:30:00	17.6	2.82	35.4
10/9/2006	13:45:00	17.8	2.82	35.6
10/9/2006	14:00:00	18.1	2.82	35.7
10/9/2006	14:15:00	18.1	2.82	35.8
10/9/2006	14:30:00	18.2	2.81	35.7
10/9/2006	14:45:00	18.2	2.81	35.7
10/9/2006	15:00:00	18.2	2.82	35.9
10/9/2006	15:15:00	17.9	2.86	36.2
10/9/2006	15:30:00	17.4	2.92	36.5
10/9/2006	15:45:00	17.0	2.99	37.0
10/9/2006	16:00:00	16.9	3.06	37.8
10/9/2006	16:15:00	16.9	3.13	38.7
10/9/2006	16:30:00	16.8	3.22	39.8
10/9/2006	16:45:00	16.9	3.30	40.8
10/9/2006	17:00:00	16.8	3.37	41.7
10/9/2006	17:15:00	16.8	3.44	42.5
10/9/2006	17:30:00	16.6	3.51	43.1
10/9/2006	17:45:00	16.6	3.56	43.7
10/9/2006	18:00:00	16.5	3.61	44.4
10/9/2006	18:15:00	16.5	3.69	45.2
10/9/2006	18:30:00	16.4	3.76	46.0
10/9/2006	18:45:00	16.3	3.82	46.7
10/9/2006	19:00:00	15.1	3.92	46.6
10/9/2006	19:15:00	15.0	3.98	47.3
10/9/2006	19:30:00	14.2	4.10	47.9
10/9/2006	19:45:00	14.2	4.23	49.4
10/9/2006	20:00:00	14.2	7.06	82.4
10/9/2006	20:15:00	14.2	8.37	97.7
10/9/2006	20:30:00	14.1	7.48	87.1
10/9/2006	20:45:00	14.0	6.85	79.6
10/9/2006	21:00:00	13.9	7.95	92.3
10/9/2006	21:15:00	13.9	8.27	95.8
10/9/2006	21:30:00	13.8	8.30	96.1

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/9/2006	21:45:00	13.8	7.87	91.0
10/9/2006	22:00:00	13.8	7.38	85.5
10/9/2006	22:15:00	13.8	7.01	81.1
10/9/2006	22:30:00	13.7	6.62	76.3
10/9/2006	22:45:00	13.5	6.22	71.5
10/9/2006	23:00:00	13.4	5.86	67.2
10/9/2006	23:15:00	13.3	5.61	64.2
10/9/2006	23:30:00	13.2	5.50	62.8
10/9/2006	23:45:00	13.0	5.44	61.9
10/10/2006	0:00:00	13.0	5.31	60.2
10/10/2006	0:15:00	12.9	5.11	57.9
10/10/2006	0:30:00	13.0	4.92	55.9
10/10/2006	0:45:00	13.4	4.76	54.7
10/10/2006	1:00:00	14.0	4.82	56.1
10/10/2006	1:15:00	14.4	4.96	58.1
10/10/2006	1:30:00	14.6	4.84	56.9
10/10/2006	1:45:00	14.4	4.61	54.1
10/10/2006	2:00:00	14.2	4.37	51.0
10/10/2006	2:15:00	14.1	4.14	48.1
10/10/2006	2:30:00	14.0	3.92	45.5
10/10/2006	2:45:00	13.9	3.71	43.1
10/10/2006	3:00:00	13.8	3.56	41.2
10/10/2006	3:15:00	13.7	3.43	39.5
10/10/2006	3:30:00	13.6	3.33	38.3
10/10/2006	3:45:00	13.6	3.22	37.1
10/10/2006	4:00:00	13.5	3.10	35.6
10/10/2006	4:15:00	13.5	2.94	33.8
10/10/2006	4:30:00	13.4	2.76	31.6
10/10/2006	4:45:00	12.8	2.60	29.4
10/10/2006	5:00:00	12.7	2.47	27.9
10/10/2006	5:15:00	12.6	2.12	23.8
10/10/2006	5:30:00	12.6	1.64	18.5
10/10/2006	5:45:00	12.5	1.72	19.4
10/10/2006	6:00:00	12.5	1.90	21.3
10/10/2006	6:15:00	12.5	1.89	21.3
10/10/2006	6:30:00	12.5	1.60	18.0
10/10/2006	6:45:00	12.4	1.17	13.2
10/10/2006	7:00:00	12.3	0.82	9.2
10/10/2006	7:15:00	12.3	0.62	6.9
10/10/2006	7:30:00	12.2	0.48	5.4
10/10/2006	7:45:00	12.1	0.38	4.2
10/10/2006	8:00:00	12.0	0.32	3.6
10/10/2006	8:15:00	11.9	0.35	3.9
10/10/2006	8:30:00	11.9	0.45	5.0
10/10/2006	8:45:00	11.8	0.42	4.7
10/10/2006	9:00:00	11.8	0.32	3.6
10/10/2006	9:15:00	11.8	0.27	2.9

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/10/2006	9:30:00	11.8	0.23	2.6
10/10/2006	9:45:00	11.8	0.21	2.3
10/10/2006	10:00:00	11.7	0.18	2.0
10/10/2006	10:15:00	11.7	0.17	1.8
10/10/2006	10:30:00	11.7	0.16	1.8
10/10/2006	10:45:00	11.8	0.15	1.7
10/10/2006	11:00:00	11.8	0.15	1.7
10/10/2006	11:15:00	11.8	0.15	1.6
10/10/2006	11:30:00	11.8	0.14	1.5
10/10/2006	11:45:00	11.8	0.13	1.4
10/10/2006	12:00:00	11.9	0.11	1.3
10/10/2006	12:15:00	12.0	0.48	5.3
10/10/2006	12:30:00	12.6	0.83	9.3
10/10/2006	12:45:00	12.8	2.42	27.3
10/10/2006	13:00:00	12.9	5.06	57.3
10/10/2006	13:15:00	12.9	7.16	81.3
10/10/2006	13:30:00	13.1	6.26	71.3
10/10/2006	13:45:00	13.1	5.63	64.1
10/10/2006	14:00:00	13.1	5.15	58.7
10/10/2006	14:15:00	13.4	4.74	54.3
10/10/2006	14:30:00	13.4	4.42	50.8
10/10/2006	14:45:00	13.6	4.18	48.2
10/10/2006	15:00:00	13.7	3.98	45.9
10/10/2006	15:15:00	13.8	3.79	43.9
10/10/2006	15:30:00	13.9	3.63	42.0
10/10/2006	15:45:00	13.9	3.49	40.5
10/10/2006	16:00:00	14.0	3.41	39.6
10/10/2006	16:15:00	14.1	3.37	39.3
10/10/2006	16:30:00	14.2	3.35	39.1
10/10/2006	16:45:00	14.3	3.32	38.8
10/10/2006	17:00:00	14.3	3.30	38.7
10/10/2006	17:15:00	14.4	3.28	38.5
10/10/2006	17:30:00	14.4	3.26	38.2
10/10/2006	17:45:00	14.5	3.22	37.8
10/10/2006	18:00:00	14.5	3.19	37.5
10/10/2006	18:15:00	14.5	3.16	37.2
10/10/2006	18:30:00	14.5	3.14	36.9
10/10/2006	18:45:00	14.6	3.11	36.6
10/10/2006	19:00:00	14.6	3.08	36.3
10/10/2006	19:15:00	14.6	3.06	36.1
10/10/2006	19:30:00	14.6	3.05	35.9
10/10/2006	19:45:00	14.7	3.03	35.8
10/10/2006	20:00:00	14.7	3.01	35.5
10/10/2006	20:15:00	14.7	2.99	35.3
10/10/2006	20:30:00	14.8	2.97	35.2
10/10/2006	20:45:00	14.8	2.97	35.1
10/10/2006	21:00:00	14.8	2.95	34.9

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/10/2006	21:15:00	14.9	2.93	34.7
10/10/2006	21:30:00	14.9	2.92	34.6
10/10/2006	21:45:00	14.9	2.91	34.5
10/10/2006	22:00:00	15.0	2.91	34.6
10/10/2006	22:15:00	15.0	2.92	34.7
10/10/2006	22:30:00	15.0	2.93	34.8
10/10/2006	22:45:00	15.0	2.94	34.9
10/10/2006	23:00:00	15.0	2.95	35.0
10/10/2006	23:15:00	15.0	2.97	35.3
10/10/2006	23:30:00	15.0	3.00	35.7
10/10/2006	23:45:00	15.0	3.04	36.1
10/11/2006	0:00:00	15.0	3.05	36.3
10/11/2006	0:15:00	15.0	3.05	36.3
10/11/2006	0:30:00	15.0	3.03	36.0
10/11/2006	0:45:00	15.0	2.99	35.5
10/11/2006	1:00:00	15.0	2.93	34.8
10/11/2006	1:15:00	15.0	2.86	34.0
10/11/2006	1:30:00	15.0	2.78	33.1
10/11/2006	1:45:00	15.0	2.72	32.3
10/11/2006	2:00:00	15.0	2.64	31.4
10/11/2006	2:15:00	15.0	2.57	30.6
10/11/2006	2:30:00	15.0	2.51	29.8
10/11/2006	2:45:00	15.0	2.45	29.1
10/11/2006	3:00:00	15.0	2.41	28.6
10/11/2006	3:15:00	15.0	2.38	28.3
10/11/2006	3:30:00	15.0	2.36	28.0
10/11/2006	3:45:00	15.0	2.34	27.8
10/11/2006	4:00:00	15.0	2.32	27.6
10/11/2006	4:15:00	15.0	2.30	27.3
10/11/2006	4:30:00	15.0	2.26	26.9
10/11/2006	4:45:00	15.0	2.23	26.5
10/11/2006	5:00:00	14.8	2.19	25.9
10/11/2006	5:15:00	14.8	2.28	26.9
10/11/2006	5:30:00	14.7	2.65	31.3
10/11/2006	5:45:00	14.7	2.92	34.5
10/11/2006	6:00:00	14.8	3.09	36.5
10/11/2006	6:15:00	14.8	3.19	37.7
10/11/2006	6:30:00	14.8	3.25	38.4
10/11/2006	6:45:00	14.8	3.29	38.9
10/11/2006	7:00:00	14.8	3.31	39.1
10/11/2006	7:15:00	14.7	3.31	39.1
10/11/2006	7:30:00	14.7	3.31	39.1
10/11/2006	7:45:00	14.7	3.31	39.0
10/11/2006	8:00:00	14.6	3.29	38.8
10/11/2006	8:15:00	14.6	3.28	38.6
10/11/2006	8:30:00	14.5	3.27	38.4
10/11/2006	8:45:00	14.5	3.25	38.2

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/11/2006	9:00:00	14.5	3.23	37.9
10/11/2006	9:15:00	14.5	3.20	37.6
10/11/2006	9:30:00	14.5	3.17	37.2
10/11/2006	9:45:00	14.5	3.13	36.8
10/11/2006	10:00:00	14.4	3.11	36.4
10/11/2006	10:15:00	14.4	3.08	36.2
10/11/2006	10:30:00	14.4	3.06	35.9
10/11/2006	10:45:00	14.4	3.03	35.5
10/11/2006	11:00:00	14.4	2.99	35.1
10/11/2006	11:15:00	14.4	2.95	34.6
10/11/2006	11:30:00	14.5	2.90	34.0
10/11/2006	11:45:00	14.5	2.85	33.5
10/11/2006	12:00:00	14.5	2.80	33.0
10/11/2006	12:15:00	14.6	2.76	32.5
10/11/2006	12:30:00	14.7	2.71	32.0
10/11/2006	12:45:00	15.7	2.60	31.4
10/11/2006	13:00:00	15.8	3.06	37.0
10/11/2006	13:15:00	15.8	3.53	42.7
10/11/2006	13:30:00	15.7	3.79	45.7
10/11/2006	13:45:00	15.7	3.94	47.5
10/11/2006	14:00:00	15.7	4.07	49.1
10/11/2006	14:15:00	15.8	4.16	50.2
10/11/2006	14:30:00	15.8	4.20	50.8
10/11/2006	14:45:00	15.8	4.21	50.9
10/11/2006	15:00:00	15.8	4.19	50.6
10/11/2006	15:15:00	15.8	4.15	50.2
10/11/2006	15:30:00	15.8	4.11	49.7
10/11/2006	15:45:00	15.9	4.07	49.4
10/11/2006	16:00:00	15.9	4.04	48.9
10/11/2006	16:15:00	16.0	4.00	48.5
10/11/2006	16:30:00	16.0	3.95	48.0
10/11/2006	16:45:00	16.0	3.89	47.2
10/11/2006	17:00:00	16.0	3.83	46.6
10/11/2006	17:15:00	16.1	3.74	45.6
10/11/2006	17:30:00	16.2	3.64	44.3
10/11/2006	17:45:00	16.2	3.54	43.1
10/11/2006	18:00:00	16.1	3.44	41.8
10/11/2006	18:15:00	16.2	3.32	40.5
10/11/2006	18:30:00	16.2	3.23	39.3
10/11/2006	18:45:00	16.3	3.13	38.2
10/11/2006	19:00:00	16.3	3.02	36.9
10/11/2006	19:15:00	16.3	2.91	35.6
10/11/2006	19:30:00	16.4	2.80	34.3
10/11/2006	19:45:00	16.4	2.72	33.3
10/11/2006	20:00:00	16.3	2.66	32.6
10/11/2006	20:15:00	16.3	2.61	31.9
10/11/2006	20:30:00	16.4	2.55	31.1

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/11/2006	20:45:00	16.4	2.48	30.3
10/11/2006	21:00:00	16.4	2.42	29.6
10/11/2006	21:15:00	16.4	2.34	28.7
10/11/2006	21:30:00	16.4	2.27	27.7
10/11/2006	21:45:00	16.4	2.20	26.9
10/11/2006	22:00:00	16.3	2.14	26.2
10/11/2006	22:15:00	16.4	2.08	25.5
10/11/2006	22:30:00	16.4	2.05	25.0
10/11/2006	22:45:00	16.4	2.03	24.9
10/11/2006	23:00:00	16.3	2.01	24.6
10/11/2006	23:15:00	16.4	1.97	24.1
10/11/2006	23:30:00	16.3	1.98	24.2
10/11/2006	23:45:00	16.3	2.04	25.0
10/12/2006	0:00:00	16.3	2.11	25.8
10/12/2006	0:15:00	16.3	2.16	26.4
10/12/2006	0:30:00	16.3	2.15	26.2
10/12/2006	0:45:00	16.3	2.10	25.6
10/12/2006	1:00:00	16.2	2.10	25.6
10/12/2006	1:15:00	16.1	2.15	26.1
10/12/2006	1:30:00	15.8	2.52	30.4
10/12/2006	1:45:00	15.9	2.87	34.7
10/12/2006	2:00:00	15.9	3.11	37.7
10/12/2006	2:15:00	15.8	3.30	39.9
10/12/2006	2:30:00	15.7	3.41	41.2
10/12/2006	2:45:00	15.7	3.48	42.0
10/12/2006	3:00:00	15.7	3.56	43.0
10/12/2006	3:15:00	15.7	3.65	44.0
10/12/2006	3:30:00	15.6	3.74	45.0
10/12/2006	3:45:00	15.6	3.80	45.7
10/12/2006	4:00:00	15.6	3.81	45.8
10/12/2006	4:15:00	15.6	3.80	45.7
10/12/2006	4:30:00	15.5	3.81	45.7
10/12/2006	4:45:00	15.6	3.83	46.1
10/12/2006	5:00:00	15.6	3.86	46.4
10/12/2006	5:15:00	15.5	3.87	46.4
10/12/2006	5:30:00	15.4	3.86	46.3
10/12/2006	5:45:00	15.2	3.82	45.6
10/12/2006	6:00:00	15.3	3.81	45.6
10/12/2006	6:15:00	15.3	3.85	46.0
10/12/2006	6:30:00	15.2	3.88	46.3
10/12/2006	6:45:00	15.2	3.92	46.7
10/12/2006	7:00:00	15.2	3.96	47.2
10/12/2006	7:15:00	15.0	3.98	47.3
10/12/2006	7:30:00	15.1	4.00	47.5
10/12/2006	7:45:00	15.1	3.99	47.5
10/12/2006	8:00:00	15.0	3.98	47.3
10/12/2006	8:15:00	15.0	3.96	47.0

Table 5.9. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/12/2006	8:30:00	14.9	3.94	46.8
10/12/2006	8:45:00	14.9	3.92	46.5
10/12/2006	9:00:00	14.9	3.89	46.1

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**site2_10_6_06**
Setup	**Date**	**(MMDDYY)**	**:**	**100606**
Setup	**Time**	**(HHMMSS)**	**:**	**162913**
Starting	**Date**	**(MMDDYY)**	**:**	**100606**
Starting	**Time**	**(HHMMSS)**	**:**	**170000**
Stopping	**Date**	**(MMDDYY)**	**:**	**101306**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**100**

***Meter was not programed to collect dissolved oxygen data, only dissolved oxygen saturation. Used DO saturation, barometric pressure - 636 mm Hg, and temperature with DOTables for DO.

Date (MMDDYYYY)	Time (HHMMSS)	Temp (C)	SpCond (uS/cm)	pH (Std Units)	DO Calculated *** (mg/L)	DO Saturation (%)
10/6/2006	17:00:00	21.0	311	8.59	5.70	94.9
10/6/2006	17:15:00	20.9	311	8.61	5.68	94.5
10/6/2006	17:30:00	20.8	310	8.61	5.71	94.6
10/6/2006	17:45:00	20.8	309	8.61	5.68	94.0
10/6/2006	18:00:00	20.6	309	8.61	5.72	94.1
10/6/2006	18:15:00	20.5	308	8.60	5.72	93.8
10/6/2006	18:30:00	20.4	308	8.59	5.70	93.1
10/6/2006	18:45:00	20.2	308	8.59	5.71	92.8
10/6/2006	19:00:00	20.0	307	8.58	5.73	92.6
10/6/2006	19:15:00	19.8	305	8.58	5.72	92.0
10/6/2006	19:30:00	19.6	304	8.58	5.73	91.6
10/6/2006	19:45:00	19.4	304	8.57	5.72	90.9
10/6/2006	20:00:00	19.3	305	8.56	5.73	90.8
10/6/2006	20:15:00	19.1	305	8.55	5.76	90.8
10/6/2006	20:30:00	19.0	308	8.53	5.76	90.5
10/6/2006	20:45:00	18.9	309	8.53	5.77	90.3
10/6/2006	21:00:00	18.8	310	8.51	5.75	89.8
10/6/2006	21:15:00	18.6	310	8.51	5.75	89.4
10/6/2006	21:30:00	18.5	310	8.50	5.76	89.1
10/6/2006	21:45:00	18.4	310	8.50	5.77	89.0
10/6/2006	22:00:00	18.3	310	8.49	5.73	88.3
10/6/2006	22:15:00	18.3	310	8.49	5.72	88.0
10/6/2006	22:30:00	18.2	311	8.48	5.70	87.5
10/6/2006	22:45:00	18.2	311	8.47	5.70	87.5
10/6/2006	23:00:00	18.2	311	8.47	5.69	87.3
10/6/2006	23:15:00	18.1	310	8.46	5.64	86.4
10/6/2006	23:30:00	18.0	310	8.46	5.70	87.1
10/6/2006	23:45:00	18.0	310	8.46	5.73	87.3
10/7/2006	0:00:00	17.9	310	8.45	5.76	87.7
10/7/2006	0:15:00	17.9	310	8.45	5.74	87.4
10/7/2006	0:30:00	17.9	311	8.44	5.76	87.5

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/7/2006	0:45:00	17.8	311	8.43	5.79	87.9
10/7/2006	1:00:00	17.8	312	8.43	5.77	87.6
10/7/2006	1:15:00	17.7	311	8.43	5.78	87.5
10/7/2006	1:30:00	17.7	310	8.41	5.79	87.6
10/7/2006	1:45:00	17.6	310	8.40	5.80	87.7
10/7/2006	2:00:00	17.6	310	8.42	5.78	87.2
10/7/2006	2:15:00	17.5	310	8.42	5.80	87.4
10/7/2006	2:30:00	17.5	310	8.42	5.81	87.4
10/7/2006	2:45:00	17.4	309	8.42	5.80	87.2
10/7/2006	3:00:00	17.4	309	8.42	5.83	87.5
10/7/2006	3:15:00	17.3	309	8.41	5.83	87.4
10/7/2006	3:30:00	17.3	309	8.41	5.81	86.9
10/7/2006	3:45:00	17.2	309	8.41	5.81	86.8
10/7/2006	4:00:00	17.2	309	8.41	5.84	87.2
10/7/2006	4:15:00	17.1	308	8.39	5.88	87.6
10/7/2006	4:30:00	17.1	308	8.40	5.88	87.6
10/7/2006	4:45:00	17.0	307	8.40	5.87	87.3
10/7/2006	5:00:00	17.0	306	8.40	5.84	86.7
10/7/2006	5:15:00	17.0	306	8.40	5.82	86.3
10/7/2006	5:30:00	16.9	305	8.40	5.81	86.0
10/7/2006	5:45:00	16.9	304	8.40	5.79	85.7
10/7/2006	6:00:00	16.8	303	8.39	5.90	87.1
10/7/2006	6:15:00	16.8	303	8.40	5.91	87.3
10/7/2006	6:30:00	16.7	302	8.40	5.88	86.7
10/7/2006	6:45:00	16.7	301	8.41	5.86	86.4
10/7/2006	7:00:00	16.7	300	8.41	5.90	86.8
10/7/2006	7:15:00	16.6	299	8.42	5.93	87.2
10/7/2006	7:30:00	16.6	298	8.42	5.97	87.7
10/7/2006	7:45:00	16.6	297	8.42	5.90	86.6
10/7/2006	8:00:00	16.5	297	8.43	5.90	86.5
10/7/2006	8:15:00	16.5	297	8.43	5.87	86.1
10/7/2006	8:30:00	16.5	296	8.42	5.95	87.1
10/7/2006	8:45:00	16.5	296	8.43	5.89	86.2
10/7/2006	9:00:00	16.5	295	8.44	5.95	87.0
10/7/2006	9:15:00	16.5	295	8.44	5.99	87.7
10/7/2006	9:30:00	16.5	295	8.45	6.00	87.8
10/7/2006	9:45:00	16.5	294	8.45	6.01	88.1
10/7/2006	10:00:00	16.6	294	8.45	5.92	86.9
10/7/2006	10:15:00	16.6	294	8.45	5.93	87.2
10/7/2006	10:30:00	16.7	294	8.47	5.94	87.4
10/7/2006	10:45:00	16.7	294	8.48	5.98	88.1
10/7/2006	11:00:00	16.7	294	8.49	5.92	87.3
10/7/2006	11:15:00	16.8	294	8.50	5.95	88.0
10/7/2006	11:30:00	16.9	295	8.50	5.96	88.4
10/7/2006	11:45:00	17.1	295	8.51	5.96	88.6
10/7/2006	12:00:00	17.2	296	8.52	5.99	89.3

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/7/2006	12:15:00	17.5	296	8.52	5.95	89.5
10/7/2006	12:30:00	17.8	297	8.53	5.94	90.1
10/7/2006	12:45:00	18.1	297	8.54	5.87	89.8
10/7/2006	13:00:00	18.4	298	8.54	5.90	91.0
10/7/2006	13:15:00	18.8	300	8.55	5.84	91.1
10/7/2006	13:30:00	19.1	303	8.55	5.81	91.6
10/7/2006	13:45:00	19.5	304	8.56	5.78	92.1
10/7/2006	14:00:00	19.9	305	8.55	5.73	92.3
10/7/2006	14:15:00	20.2	307	8.56	5.69	92.7
10/7/2006	14:30:00	20.5	308	8.56	5.65	92.8
10/7/2006	14:45:00	20.8	310	8.57	5.59	92.7
10/7/2006	15:00:00	21.1	311	8.57	5.61	93.7
10/7/2006	15:15:00	21.4	312	8.58	5.57	93.9
10/7/2006	15:30:00	21.7	314	8.57	5.54	94.2
10/7/2006	15:45:00	21.8	314	8.57	5.51	93.9
10/7/2006	16:00:00	21.7	314	8.57	5.48	93.3
10/7/2006	16:15:00	21.5	314	8.57	5.47	92.6
10/7/2006	16:30:00	21.4	314	8.57	5.49	92.5
10/7/2006	16:45:00	21.2	314	8.57	5.49	92.1
10/7/2006	17:00:00	21.1	315	8.56	5.48	91.5
10/7/2006	17:15:00	20.9	316	8.56	5.47	90.9
10/7/2006	17:30:00	20.9	316	8.55	5.45	90.5
10/7/2006	17:45:00	20.8	314	8.55	5.47	90.5
10/7/2006	18:00:00	20.7	311	8.55	5.41	89.5
10/7/2006	18:15:00	20.7	310	8.54	5.45	89.8
10/7/2006	18:30:00	20.5	309	8.54	5.43	89.1
10/7/2006	18:45:00	20.4	308	8.53	5.40	88.4
10/7/2006	19:00:00	20.3	309	8.53	5.42	88.4
10/7/2006	19:15:00	20.2	310	8.52	5.44	88.3
10/7/2006	19:30:00	20.1	311	8.52	5.44	88.1
10/7/2006	19:45:00	19.9	312	8.51	5.41	87.3
10/7/2006	20:00:00	19.8	312	8.50	5.40	86.7
10/7/2006	20:15:00	19.7	312	8.50	5.44	87.0
10/7/2006	20:30:00	19.5	313	8.49	5.40	86.1
10/7/2006	20:45:00	19.3	313	8.48	5.45	86.5
10/7/2006	21:00:00	19.2	314	8.47	5.53	87.3
10/7/2006	21:15:00	19.0	313	8.47	5.57	87.4
10/7/2006	21:30:00	18.9	313	8.46	5.59	87.5
10/7/2006	21:45:00	18.8	312	8.46	5.60	87.4
10/7/2006	22:00:00	18.7	312	8.45	5.59	86.9
10/7/2006	22:15:00	18.6	312	8.45	5.62	87.2
10/7/2006	22:30:00	18.5	312	8.44	5.61	86.7
10/7/2006	22:45:00	18.4	313	8.44	5.60	86.6
10/7/2006	23:00:00	18.4	312	8.43	5.60	86.5
10/7/2006	23:15:00	18.4	312	8.43	5.60	86.3
10/7/2006	23:30:00	18.3	313	8.42	5.59	86.1

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/7/2006	23:45:00	18.2	313	8.42	5.60	86.0
10/8/2006	0:00:00	18.1	313	8.42	5.63	86.2
10/8/2006	0:15:00	18.0	312	8.41	5.65	86.2
10/8/2006	0:30:00	17.9	313	8.41	5.65	85.9
10/8/2006	0:45:00	17.8	312	8.40	5.69	86.3
10/8/2006	1:00:00	17.7	312	8.41	5.70	86.2
10/8/2006	1:15:00	17.6	312	8.41	5.71	86.2
10/8/2006	1:30:00	17.5	313	8.40	5.72	86.1
10/8/2006	1:45:00	17.4	312	8.40	5.73	86.0
10/8/2006	2:00:00	17.3	312	8.40	5.75	86.1
10/8/2006	2:15:00	17.3	312	8.40	5.76	86.2
10/8/2006	2:30:00	17.2	312	8.40	5.77	86.2
10/8/2006	2:45:00	17.2	312	8.40	5.76	86.0
10/8/2006	3:00:00	17.1	312	8.39	5.80	86.5
10/8/2006	3:15:00	17.1	311	8.40	5.78	86.0
10/8/2006	3:30:00	17.1	310	8.40	5.79	86.1
10/8/2006	3:45:00	17.0	310	8.40	5.79	85.9
10/8/2006	4:00:00	16.9	310	8.40	5.78	85.7
10/8/2006	4:15:00	16.9	310	8.40	5.81	86.1
10/8/2006	4:30:00	16.8	309	8.39	5.85	86.5
10/8/2006	4:45:00	16.8	309	8.39	5.87	86.6
10/8/2006	5:00:00	16.7	307	8.39	5.88	86.6
10/8/2006	5:15:00	16.7	307	8.40	5.87	86.4
10/8/2006	5:30:00	16.6	306	8.40	5.87	86.3
10/8/2006	5:45:00	16.6	305	8.40	5.90	86.6
10/8/2006	6:00:00	16.6	305	8.40	5.89	86.5
10/8/2006	6:15:00	16.6	304	8.40	5.90	86.5
10/8/2006	6:30:00	16.5	303	8.41	5.91	86.7
10/8/2006	6:45:00	16.5	302	8.41	5.87	86.0
10/8/2006	7:00:00	16.5	300	8.41	5.90	86.4
10/8/2006	7:15:00	16.4	299	8.41	5.90	86.3
10/8/2006	7:30:00	16.4	299	8.41	5.87	85.8
10/8/2006	7:45:00	16.4	298	8.41	5.89	86.0
10/8/2006	8:00:00	16.4	298	8.42	5.93	86.5
10/8/2006	8:15:00	16.3	297	8.42	5.91	86.2
10/8/2006	8:30:00	16.3	297	8.43	5.92	86.3
10/8/2006	8:45:00	16.3	297	8.43	5.95	86.7
10/8/2006	9:00:00	16.3	296	8.43	5.96	86.9
10/8/2006	9:15:00	16.3	296	8.43	5.96	87.0
10/8/2006	9:30:00	16.3	296	8.43	5.96	87.0
10/8/2006	9:45:00	16.4	296	8.44	5.97	87.1
10/8/2006	10:00:00	16.4	295	8.44	6.00	87.7
10/8/2006	10:15:00	16.5	295	8.44	5.97	87.5
10/8/2006	10:30:00	16.6	295	8.45	5.99	87.9
10/8/2006	10:45:00	16.6	295	8.45	5.98	87.9
10/8/2006	11:00:00	16.7	295	8.46	5.99	88.2

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/8/2006	11:15:00	16.7	295	8.46	5.98	88.1
10/8/2006	11:30:00	16.8	295	8.47	5.92	87.5
10/8/2006	11:45:00	16.9	296	8.48	5.93	87.8
10/8/2006	12:00:00	17.0	296	8.48	5.96	88.5
10/8/2006	12:15:00	17.2	297	8.49	5.97	89.1
10/8/2006	12:30:00	17.4	297	8.49	5.95	89.4
10/8/2006	12:45:00	17.7	298	8.51	5.94	89.8
10/8/2006	13:00:00	17.9	299	8.52	5.91	89.9
10/8/2006	13:15:00	18.2	300	8.52	5.87	90.2
10/8/2006	13:30:00	18.4	301	8.53	5.81	89.7
10/8/2006	13:45:00	18.7	304	8.53	5.82	90.7
10/8/2006	14:00:00	18.9	306	8.53	5.81	90.9
10/8/2006	14:15:00	19.1	308	8.53	5.80	91.3
10/8/2006	14:30:00	19.2	309	8.54	5.77	91.2
10/8/2006	14:45:00	19.2	310	8.54	5.69	89.9
10/8/2006	15:00:00	19.2	311	8.55	5.74	90.7
10/8/2006	15:15:00	19.3	312	8.55	5.71	90.4
10/8/2006	15:30:00	19.3	313	8.56	5.71	90.3
10/8/2006	15:45:00	19.2	314	8.56	5.72	90.3
10/8/2006	16:00:00	19.0	315	8.56	5.74	90.2
10/8/2006	16:15:00	19.0	315	8.56	5.73	90.0
10/8/2006	16:30:00	19.0	315	8.56	5.71	89.6
10/8/2006	16:45:00	19.1	314	8.55	5.66	89.1
10/8/2006	17:00:00	19.1	313	8.55	5.60	88.2
10/8/2006	17:15:00	19.0	313	8.55	5.65	88.8
10/8/2006	17:30:00	18.9	315	8.55	5.62	88.0
10/8/2006	17:45:00	18.8	316	8.54	5.67	88.5
10/8/2006	18:00:00	18.6	316	8.54	5.70	88.4
10/8/2006	18:15:00	18.4	313	8.54	5.73	88.4
10/8/2006	18:30:00	18.3	311	8.54	5.73	88.1
10/8/2006	18:45:00	18.2	310	8.53	5.69	87.2
10/8/2006	19:00:00	18.0	310	8.52	5.62	85.8
10/8/2006	19:15:00	17.9	310	8.52	5.79	88.1
10/8/2006	19:30:00	17.7	312	8.51	5.80	87.9
10/8/2006	19:45:00	17.6	313	8.50	5.80	87.6
10/8/2006	20:00:00	17.5	313	8.50	5.82	87.5
10/8/2006	20:15:00	17.4	314	8.49	5.80	86.9
10/8/2006	20:30:00	17.3	314	8.48	5.80	86.8
10/8/2006	20:45:00	17.2	313	8.48	5.80	86.7
10/8/2006	21:00:00	17.2	313	8.47	5.78	86.2
10/8/2006	21:15:00	17.1	314	8.46	5.75	85.6
10/8/2006	21:30:00	17.0	314	8.46	5.78	85.8
10/8/2006	21:45:00	16.9	314	8.45	5.78	85.6
10/8/2006	22:00:00	16.8	314	8.44	5.81	85.8
10/8/2006	22:15:00	16.7	314	8.44	5.80	85.6
10/8/2006	22:30:00	16.7	314	8.44	5.81	85.5

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/8/2006	22:45:00	16.6	314	8.43	5.80	85.2
10/8/2006	23:00:00	16.5	314	8.43	5.80	85.1
10/8/2006	23:15:00	16.5	313	8.43	5.82	85.1
10/8/2006	23:30:00	16.4	314	8.42	5.83	85.1
10/8/2006	23:45:00	16.3	314	8.42	5.84	85.1
10/9/2006	0:00:00	16.2	313	8.42	5.84	84.9
10/9/2006	0:15:00	16.1	313	8.41	5.83	84.6
10/9/2006	0:30:00	16.0	313	8.41	5.84	84.5
10/9/2006	0:45:00	15.9	313	8.41	5.88	84.9
10/9/2006	1:00:00	15.9	313	8.41	5.87	84.5
10/9/2006	1:15:00	15.8	313	8.40	5.87	84.3
10/9/2006	1:30:00	15.7	313	8.40	5.92	84.9
10/9/2006	1:45:00	15.6	313	8.40	5.93	84.9
10/9/2006	2:00:00	15.6	313	8.40	5.86	83.8
10/9/2006	2:15:00	15.5	313	8.40	5.86	83.6
10/9/2006	2:30:00	15.4	313	8.40	5.86	83.4
10/9/2006	2:45:00	15.3	312	8.40	5.91	84.0
10/9/2006	3:00:00	15.3	312	8.40	5.93	84.0
10/9/2006	3:15:00	15.2	312	8.40	5.98	84.6
10/9/2006	3:30:00	15.1	310	8.40	6.00	84.6
10/9/2006	3:45:00	15.0	309	8.40	6.05	85.2
10/9/2006	4:00:00	14.9	308	8.40	6.07	85.3
10/9/2006	4:15:00	14.9	307	8.40	6.08	85.3
10/9/2006	4:30:00	14.8	305	8.39	6.11	85.7
10/9/2006	4:45:00	14.8	303	8.40	6.08	85.2
10/9/2006	5:00:00	14.7	301	8.40	6.13	85.7
10/9/2006	5:15:00	14.7	299	8.40	6.14	85.8
10/9/2006	5:30:00	14.6	298	8.40	6.16	85.9
10/9/2006	5:45:00	14.6	296	8.40	6.14	85.5
10/9/2006	6:00:00	14.5	294	8.40	6.16	85.6
10/9/2006	6:15:00	14.5	294	8.40	6.17	85.7
10/9/2006	6:30:00	14.4	292	8.40	6.14	85.2
10/9/2006	6:45:00	17.0	299	8.63	4.92	73.0
10/9/2006	7:00:00	14.2	93	8.54	5.99	82.6
10/9/2006	7:15:00	14.2	75	8.64	6.10	84.2
10/9/2006	7:30:00	14.2	68	8.70	6.16	85.0
10/9/2006	7:45:00	14.1	62	8.74	6.12	84.3
10/9/2006	8:00:00	14.1	59	8.74	6.17	84.9
10/9/2006	8:15:00	14.0	57	8.76	6.13	84.2
10/9/2006	8:30:00	13.9	56	8.78	6.15	84.3
10/9/2006	8:45:00	13.9	58	8.73	6.19	84.7
10/9/2006	9:00:00	13.9	67	8.67	6.22	85.2
10/9/2006	9:15:00	13.9	86	8.64	6.23	85.2
10/9/2006	9:30:00	13.9	131	8.56	6.22	85.1
10/9/2006	9:45:00	13.9	166	8.52	6.16	84.4
10/9/2006	10:00:00	14.0	192	8.49	6.17	84.7

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/9/2006	10:15:00	14.1	219	8.47	6.18	85.1
10/9/2006	10:30:00	14.3	238	8.46	6.21	85.8
10/9/2006	10:45:00	14.4	258	8.45	6.26	86.8
10/9/2006	11:00:00	14.6	268	8.44	6.25	87.1
10/9/2006	11:15:00	14.8	275	8.44	6.20	86.8
10/9/2006	11:30:00	14.9	281	8.44	6.16	86.5
10/9/2006	11:45:00	15.1	285	8.44	6.08	85.9
10/9/2006	12:00:00	15.4	288	8.45	6.08	86.4
10/9/2006	12:15:00	15.5	290	8.45	6.09	86.9
10/9/2006	12:30:00	15.6	292	8.45	6.05	86.5
10/9/2006	12:45:00	15.6	293	8.45	6.08	87.1
10/9/2006	13:00:00	15.7	295	8.45	6.04	86.7
10/9/2006	13:15:00	16.0	296	8.45	5.97	86.3
10/9/2006	13:30:00	16.4	298	8.46	5.91	86.4
10/9/2006	13:45:00	16.7	299	8.45	5.83	85.9
10/9/2006	14:00:00	16.9	299	8.46	5.84	86.5
10/9/2006	14:15:00	17.0	300	8.46	5.82	86.5
10/9/2006	14:30:00	17.2	302	8.46	5.80	86.5
10/9/2006	14:45:00	17.4	303	8.46	5.72	85.9
10/9/2006	15:00:00	17.7	305	8.46	5.69	86.2
10/9/2006	15:15:00	17.9	305	8.46	5.69	86.5
10/9/2006	15:30:00	17.9	306	8.46	5.73	87.3
10/9/2006	15:45:00	18.0	306	8.46	5.56	84.8
10/9/2006	16:00:00	17.9	306	8.46	5.63	85.8
10/9/2006	16:15:00	17.9	306	8.46	5.63	85.7
10/9/2006	16:30:00	17.5	307	8.46	5.69	85.6
10/9/2006	16:45:00	16.8	304	8.46	5.74	84.8
10/9/2006	17:00:00	16.7	302	8.46	5.76	84.8
10/9/2006	17:15:00	16.6	302	8.46	5.75	84.5
10/9/2006	17:30:00	16.6	303	8.46	5.75	84.5
10/9/2006	17:45:00	16.7	303	8.45	5.91	87.0
10/9/2006	18:00:00	16.7	303	8.45	5.86	86.3
10/9/2006	18:15:00	16.6	302	8.45	5.74	84.4
10/9/2006	18:30:00	16.5	298	8.45	5.78	84.6
10/9/2006	18:45:00	16.3	293	8.45	5.79	84.4
10/9/2006	19:00:00	16.3	293	8.45	5.80	84.6
10/9/2006	19:15:00	16.3	294	8.44	5.81	84.7
10/9/2006	19:30:00	16.2	293	8.44	5.73	83.4
10/9/2006	19:45:00	16.0	227	8.46	5.71	82.5
10/9/2006	20:00:00	15.4	77	8.73	5.76	81.9
10/9/2006	20:15:00	14.9	61	8.88	5.93	83.3
10/9/2006	20:30:00	14.3	54	8.98	6.21	85.9
10/9/2006	20:45:00	13.9	51	9.00	6.27	85.8
10/9/2006	21:00:00	13.9	51	9.01	6.21	85.1
10/9/2006	21:15:00	14.0	51	8.99	6.26	85.9
10/9/2006	21:30:00	13.9	51	8.99	6.24	85.5

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/9/2006	21:45:00	13.8	50	9.00	6.38	87.2
10/9/2006	22:00:00	13.7	50	8.99	6.30	85.9
10/9/2006	22:15:00	13.6	50	9.00	6.32	86.0
10/9/2006	22:30:00	13.6	51	9.01	6.39	86.9
10/9/2006	22:45:00	13.6	54	9.00	6.37	86.5
10/9/2006	23:00:00	13.6	64	8.93	6.33	86.1
10/9/2006	23:15:00	13.5	67	8.91	6.29	85.4
10/9/2006	23:30:00	13.5	61	8.92	6.26	84.8
10/9/2006	23:45:00	13.3	58	8.96	6.31	85.2
10/10/2006	0:00:00	13.2	61	8.91	6.30	84.8
10/10/2006	0:15:00	13.1	64	8.86	6.34	85.1
10/10/2006	0:30:00	13.0	63	8.85	6.46	86.6
10/10/2006	0:45:00	12.9	58	8.87	6.51	86.9
10/10/2006	1:00:00	12.7	55	8.89	6.51	86.6
10/10/2006	1:15:00	12.7	54	8.87	6.51	86.5
10/10/2006	1:30:00	12.6	63	8.82	6.51	86.5
10/10/2006	1:45:00	12.9	106	8.63	6.41	85.7
10/10/2006	2:00:00	13.4	159	8.51	6.12	82.8
10/10/2006	2:15:00	14.0	218	8.36	5.86	80.4
10/10/2006	2:30:00	14.3	244	8.30	5.78	79.9
10/10/2006	2:45:00	14.4	295	8.25	5.68	78.7
10/10/2006	3:00:00	14.1	333	8.22	5.57	76.6
10/10/2006	3:15:00	13.8	331	8.21	5.53	75.6
10/10/2006	3:30:00	13.8	336	8.19	5.49	75.0
10/10/2006	3:45:00	13.7	337	8.17	5.48	74.8
10/10/2006	4:00:00	13.6	351	8.13	5.49	74.7
10/10/2006	4:15:00	13.5	376	8.09	5.33	72.3
10/10/2006	4:30:00	13.3	415	8.11	4.96*	67.0
10/10/2006	4:45:00	13.3	432	8.10	3.18	42.9
10/10/2006	5:00:00	13.2	439	8.10	2.55	34.3
10/10/2006	5:15:00	13.2	459	8.04	2.85	38.4
10/10/2006	5:30:00	12.6	504	8.03	2.39	31.7
10/10/2006	5:45:00	12.5	511	8.06	5.57	73.7
10/10/2006	6:00:00	12.4	510	8.06	5.59	73.8
10/10/2006	6:15:00	12.3	517	8.03	4.61	60.7
10/10/2006	6:30:00	12.3	526	8.03	3.14	41.4
10/10/2006	6:45:00	12.3	540	8.02	2.63	34.7
10/10/2006	7:00:00	12.4	528	8.02	2.33	30.7
10/10/2006	7:15:00	12.4	525	8.01	2.28	30.1
10/10/2006	7:30:00	12.3	551	8.00	2.03	26.8
10/10/2006	7:45:00	12.2	607	7.98	1.98	26.1
10/10/2006	8:00:00	12.1	676	7.94	2.09	27.4
10/10/2006	8:15:00	12.0	668	7.93	1.90	24.8
10/10/2006	8:30:00	11.9	708	7.93	1.61	21.0
10/10/2006	8:45:00	11.8	757	7.94	1.45	18.8
10/10/2006	9:00:00	11.7	799	7.94	1.33	17.2

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/10/2006	9:15:00	11.6	834	7.93	1.24	16.1
10/10/2006	9:30:00	11.6	859	7.93	1.17	15.1
10/10/2006	9:45:00	11.6	881	7.91	1.10	14.2
10/10/2006	10:00:00	11.5	923	7.91	1.04	13.5
10/10/2006	10:15:00	11.5	935	7.91	1.01	13.1
10/10/2006	10:30:00	11.5	944	7.88	1.07	13.8
10/10/2006	10:45:00	11.5	954	7.88	1.30	16.8
10/10/2006	11:00:00	11.5	960	7.88	1.41	18.2
10/10/2006	11:15:00	11.5	964	7.85	1.40	18.1
10/10/2006	11:30:00	11.5	969	7.87	1.31	16.9
10/10/2006	11:45:00	11.5	973	7.84	1.15	14.9
10/10/2006	12:00:00	11.5	978	7.84	1.03	13.3
10/10/2006	12:15:00	11.5	984	7.85	0.90	11.6
10/10/2006	12:30:00	11.5	989	7.83	0.80	10.3
10/10/2006	12:45:00	11.5	986	7.81	0.72	9.3
10/10/2006	13:00:00	11.7	1002	7.81	0.69	9.0
10/10/2006	13:15:00	11.9	1003	7.83	1.06	13.8
10/10/2006	13:30:00	12.3	723	7.88	6.05*	79.7
10/10/2006	13:45:00	12.5	1016	8.00	6.05	79.9
10/10/2006	14:00:00	12.6	1017	8.00	6.06	80.4
10/10/2006	14:15:00	12.7	1020	8.00	5.93	78.9
10/10/2006	14:30:00	12.7	1023	7.96	5.52	73.4
10/10/2006	14:45:00	12.7	1021	7.91	3.53	46.9
10/10/2006	15:00:00	12.8	1021	7.89	2.93	39.1
10/10/2006	15:15:00	13.1	1027	7.95	6.12	82.2
10/10/2006	15:30:00	13.2	1023	7.99	6.11	82.2
10/10/2006	15:45:00	13.2	1022	7.99	6.11	82.3
10/10/2006	16:00:00	13.4	1027	7.99	6.09	82.4
10/10/2006	16:15:00	13.5	1024	7.99	6.07	82.4
10/10/2006	16:30:00	13.6	1020	7.99	6.05	82.3
10/10/2006	16:45:00	13.6	1017	7.99	6.09	82.8
10/10/2006	17:00:00	13.7	1014	7.99	6.08	82.8
10/10/2006	17:15:00	13.8	1003	7.99	6.05	82.6
10/10/2006	17:30:00	13.9	988	7.99	6.01	82.3
10/10/2006	17:45:00	14.0	971	7.99	6.00	82.3
10/10/2006	18:00:00	14.0	956	7.99	5.99	82.3
10/10/2006	18:15:00	14.1	938	8.00	5.96	82.1
10/10/2006	18:30:00	14.2	923	7.99	5.94	81.9
10/10/2006	18:45:00	14.2	904	7.99	5.98	82.5
10/10/2006	19:00:00	14.2	888	7.99	5.92	81.7
10/10/2006	19:15:00	14.2	874	7.98	5.92	81.8
10/10/2006	19:30:00	14.3	856	7.98	5.87	81.2
10/10/2006	19:45:00	14.3	839	7.97	5.87	81.2
10/10/2006	20:00:00	14.3	823	7.97	5.82	80.5
10/10/2006	20:15:00	14.3	809	7.97	5.80	80.4
10/10/2006	20:30:00	14.4	795	7.97	5.79	80.2

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/10/2006	20:45:00	14.4	782	7.97	5.78	80.2
10/10/2006	21:00:00	14.4	769	7.97	5.77	80.1
10/10/2006	21:15:00	14.5	757	7.98	5.74	79.7
10/10/2006	21:30:00	14.5	747	7.99	5.72	79.5
10/10/2006	21:45:00	14.5	735	7.98	5.66	78.7
10/10/2006	22:00:00	14.6	722	7.98	5.69	79.2
10/10/2006	22:15:00	14.6	709	7.99	5.69	79.3
10/10/2006	22:30:00	14.6	697	7.99	5.71	79.6
10/10/2006	22:45:00	14.7	684	7.99	5.72	79.8
10/10/2006	23:00:00	14.7	671	7.99	5.71	79.7
10/10/2006	23:15:00	14.7	657	7.99	5.68	79.4
10/10/2006	23:30:00	14.7	643	7.99	5.64	78.9
10/10/2006	23:45:00	14.7	632	7.99	5.67	79.3
10/11/2006	0:00:00	14.7	619	8.00	5.66	79.2
10/11/2006	0:15:00	14.8	606	7.97	4.12*	57.6
10/11/2006	0:30:00	14.8	605	7.93	3.09	43.2
10/11/2006	0:45:00	14.8	602	7.91	2.72	38.0
10/11/2006	1:00:00	14.8	603	7.89	2.52	35.3
10/11/2006	1:15:00	14.8	604	7.88	2.33	32.6
10/11/2006	1:30:00	14.8	605	7.86	2.23	31.2
10/11/2006	1:45:00	14.8	600	7.85	2.48	34.7
10/11/2006	2:00:00	14.8	597	7.84	2.29	32.0
10/11/2006	2:15:00	14.8	594	7.84	2.21	31.0
10/11/2006	2:30:00	14.8	586	7.82	2.27	31.8
10/11/2006	2:45:00	14.8	514	7.85	5.68	79.5
10/11/2006	3:00:00	14.7	494	7.90	5.70	79.7
10/11/2006	3:15:00	14.7	488	7.90	5.52	77.2
10/11/2006	3:30:00	14.7	481	7.93	3.57	49.9
10/11/2006	3:45:00	14.7	480	7.89	2.54	35.6
10/11/2006	4:00:00	14.7	479	7.88	2.19	30.7
10/11/2006	4:15:00	14.7	479	7.87	1.96	27.4
10/11/2006	4:30:00	14.7	480	7.86	1.82	25.5
10/11/2006	4:45:00	14.7	479	7.85	1.76	24.6
10/11/2006	5:00:00	14.7	479	7.84	1.72	24.0
10/11/2006	5:15:00	14.7	478	7.83	1.66	23.2
10/11/2006	5:30:00	14.7	475	7.83	1.59	22.3
10/11/2006	5:45:00	14.7	447	7.81	4.03	56.3
10/11/2006	6:00:00	14.6	432	8.06	5.82	81.1
10/11/2006	6:15:00	14.5	430	8.08	5.84	81.3
10/11/2006	6:30:00	14.5	431	8.08	5.81	80.8
10/11/2006	6:45:00	14.5	430	8.11	3.16	43.9
10/11/2006	7:00:00	14.5	430	8.07	2.86	39.7
10/11/2006	7:15:00	14.5	430	8.04	2.51	34.9
10/11/2006	7:30:00	14.5	431	8.02	2.29	31.9
10/11/2006	7:45:00	14.5	431	8.00	2.24	31.1
10/11/2006	8:00:00	14.5	430	7.98	3.67	51.0

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/11/2006	8:15:00	14.4	419	8.00	2.86	39.6
10/11/2006	8:30:00	14.4	419	7.98	3.10	42.9
10/11/2006	8:45:00	14.3	415	7.97	3.05	42.1
10/11/2006	9:00:00	14.2	412	7.95	3.14	43.3
10/11/2006	9:15:00	14.2	408	7.94	3.97	54.7
10/11/2006	9:30:00	14.1	405	7.97	3.53	48.5
10/11/2006	9:45:00	14.0	404	7.97	3.06	42.1
10/11/2006	10:00:00	14.1	404	7.97	2.37	32.6
10/11/2006	10:15:00	14.1	402	7.96	2.21	30.4
10/11/2006	10:30:00	14.1	404	7.95	2.29	31.5
10/11/2006	10:45:00	14.1	404	7.96	2.36	32.5
10/11/2006	11:00:00	14.1	404	7.95	2.31	31.8
10/11/2006	11:15:00	14.1	403	7.94	2.75	37.9
10/11/2006	11:30:00	14.1	401	7.95	2.29	31.5
10/11/2006	11:45:00	14.1	400	7.94	2.01	27.7
10/11/2006	12:00:00	14.1	400	7.93	2.02	27.8
10/11/2006	12:15:00	14.2	399	7.92	2.05	28.3
10/11/2006	12:30:00	14.2	396	7.90	2.15	29.7
10/11/2006	12:45:00	14.2	395	7.91	2.50	34.5
10/11/2006	13:00:00	14.8	387	7.93	4.12	57.8
10/11/2006	13:15:00	14.8	388	7.94	2.93	41.0
10/11/2006	13:30:00	14.8	385	7.86	2.88	40.4
10/11/2006	13:45:00	15.4	380	8.07	6.07	86.3
10/11/2006	14:00:00	15.5	377	8.08	6.06	86.5
10/11/2006	14:15:00	15.5	382	8.03	4.40	62.7
10/11/2006	14:30:00	15.4	381	8.00	3.83	54.4
10/11/2006	14:45:00	15.7	376	8.00	3.67	52.6
10/11/2006	15:00:00	15.6	378	7.97	3.23	46.3
10/11/2006	15:15:00	15.6	378	7.93	3.05	43.7
10/11/2006	15:30:00	15.7	382	7.91	2.69	38.6
10/11/2006	15:45:00	15.6	382	7.89	2.43	34.7
10/11/2006	16:00:00	15.7	381	7.88	2.44	35.0
10/11/2006	16:15:00	15.7	380	7.88	2.26	32.4
10/11/2006	16:30:00	15.7	380	7.88	2.35	33.8
10/11/2006	16:45:00	15.8	378	7.88	2.52	36.3
10/11/2006	17:00:00	15.8	378	7.86	2.17	31.2
10/11/2006	17:15:00	15.9	377	7.86	2.08	30.0
10/11/2006	17:30:00	15.9	378	7.85	1.91	27.5
10/11/2006	17:45:00	15.9	378	7.83	2.16	31.1
10/11/2006	18:00:00	16.0	373	7.82	2.37	34.2
10/11/2006	18:15:00	16.0	375	7.82	2.06	29.8
10/11/2006	18:30:00	16.0	377	7.81	1.71	24.7
10/11/2006	18:45:00	16.1	375	7.80	1.50	21.7
10/11/2006	19:00:00	16.0	376	7.79	1.55	22.5
10/11/2006	19:15:00	16.1	374	7.78	1.73	25.0
10/11/2006	19:30:00	16.1	373	7.80	1.72	25.0

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/11/2006	19:45:00	16.2	372	7.80	1.72	25.0
10/11/2006	20:00:00	16.2	373	7.79	1.69	24.6
10/11/2006	20:15:00	16.2	372	7.78	1.62	23.6
10/11/2006	20:30:00	16.3	374	7.77	1.67	24.3
10/11/2006	20:45:00	16.2	373	7.76	1.56	22.7
10/11/2006	21:00:00	16.2	374	7.75	1.29	18.7
10/11/2006	21:15:00	16.3	373	7.76	1.42	20.6
10/11/2006	21:30:00	16.3	372	7.75	1.46	21.3
10/11/2006	21:45:00	16.3	370	7.75	1.61	23.5
10/11/2006	22:00:00	16.3	360	7.76	1.72	25.0
10/11/2006	22:15:00	16.2	361	7.75	1.65	24.0
10/11/2006	22:30:00	16.2	362	7.75	1.76	25.6
10/11/2006	22:45:00	16.2	359	7.75	1.60	23.3
10/11/2006	23:00:00	16.2	360	7.74	1.73	25.2
10/11/2006	23:15:00	16.2	358	7.75	1.95	28.4
10/11/2006	23:30:00	16.2	357	7.75	1.82	26.4
10/11/2006	23:45:00	16.2	357	7.74	1.78	25.9
10/12/2006	0:00:00	16.1	359	7.73	1.71	24.8
10/12/2006	0:15:00	16.1	361	7.73	1.55	22.5
10/12/2006	0:30:00	16.1	363	7.73	0.95	13.8
10/12/2006	0:45:00	16.1	359	7.73	1.03	15.0
10/12/2006	1:00:00	16.1	358	7.73	1.17	17.0
10/12/2006	1:15:00	16.1	356	7.72	1.54	22.4
10/12/2006	1:30:00	16.1	364	7.70	1.29	18.7
10/12/2006	1:45:00	16.1	363	7.71	0.64	9.2
10/12/2006	2:00:00	16.1	361	7.71	0.64	9.2
10/12/2006	2:15:00	15.4	328	7.99	5.89	83.9
10/12/2006	2:30:00	15.4	328	7.95	3.82	54.3
10/12/2006	2:45:00	15.5	328	7.91	2.99	42.6
10/12/2006	3:00:00	15.6	330	7.88	2.81	40.2
10/12/2006	3:15:00	15.5	329	7.89	2.63	37.5
10/12/2006	3:30:00	15.4	326	7.94	4.14	59.0
10/12/2006	3:45:00	15.2	324	7.95	4.50	63.7
10/12/2006	4:00:00	15.2	325	7.96	3.43	48.6
10/12/2006	4:15:00	15.3	325	7.90	3.27	46.4
10/12/2006	4:30:00	15.3	325	7.90	3.35	47.6
10/12/2006	4:45:00	15.3	326	7.92	3.31	47.0
10/12/2006	5:00:00	15.2	324	7.93	3.46	49.0
10/12/2006	5:15:00	15.2	325	7.91	2.89	40.9
10/12/2006	5:30:00	15.2	326	7.87	3.30	46.7
10/12/2006	5:45:00	15.2	327	7.89	2.61	36.9
10/12/2006	6:00:00	15.2	325	7.87	2.60	36.8
10/12/2006	6:15:00	15.2	324	7.86	2.42	34.3
10/12/2006	6:30:00	15.2	326	7.85	4.49	63.6
10/12/2006	6:45:00	14.8	319	7.92	5.28	74.0
10/12/2006	7:00:00	14.9	323	7.91	3.56	49.9

Table 5.10. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/12/2006	7:15:00	14.9	322	7.88	3.43	48.2
10/12/2006	7:30:00	14.9	321	7.90	3.70	51.9
10/12/2006	7:45:00	14.8	322	7.93	3.22	45.2
10/12/2006	8:00:00	14.7	318	7.97	3.80	53.1
10/12/2006	8:15:00	14.6	324	7.93	2.88	40.2
10/12/2006	8:30:00	14.7	324	7.95	2.51	35.0
10/12/2006	8:45:00	14.7	320	7.87	2.70	37.7
10/12/2006	9:00:00	14.7	321	7.89	2.86	39.9
10/12/2006	9:15:00	14.6	320	7.94	3.12	43.4
10/12/2006	9:30:00	14.3	319	7.94	3.00	41.5
10/12/2006	9:45:00	14.4	320	7.95	3.00	41.6
10/12/2006	10:00:00	14.4	318	7.93	3.04*	42.2

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS			
Report generated:	7/31/2007	11:23:51		
Report from file:	...\SN45476 2006-10-06 100000 S3-10-6-06.bin			
Win-Situ Version	4.55.3.0			
Serial number:	45476			
Firmware Version	1.58			
Unit name:	Apollo			
Barometric Pressure:	635.805			
Test defined on:	10/5/2006	16:15:06		
Test scheduled for:	10/6/2006	10:00:00		
Test started on:	10/6/2006	10:00:00		
Test stopped on:	10/13/2006	13:32:08		
Data gathered using linear testing				
Time between data points		900	seconds	
Number of data samples:		677		

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/6/2006	11:45:00	21.2	7.57	102.4
10/6/2006	12:00:00	21.4	7.54	102.4
10/6/2006	12:15:00	21.8	7.52	102.9
10/6/2006	12:30:00	22.1	7.50	103.2
10/6/2006	12:45:00	22.3	7.45	103.1
10/6/2006	13:00:00	22.8	7.41	103.3
10/6/2006	13:15:00	23.1	7.37	103.4
10/6/2006	13:30:00	23.2	7.33	103.1
10/6/2006	13:45:00	23.4	7.30	103.0
10/6/2006	14:00:00	23.5	7.27	102.8
10/6/2006	14:15:00	23.5	7.25	102.4
10/6/2006	14:30:00	23.4	7.23	102.0
10/6/2006	14:45:00	23.3	7.22	101.7
10/6/2006	15:00:00	23.0	7.22	101.2
10/6/2006	15:15:00	22.8	7.22	100.8
10/6/2006	15:30:00	22.7	7.21	100.5
10/6/2006	15:45:00	22.6	7.21	100.2
10/6/2006	16:00:00	22.5	7.21	100.1
10/6/2006	16:15:00	22.4	7.21	99.8
10/6/2006	16:30:00	22.2	7.21	99.6
10/6/2006	16:45:00	22.0	7.22	99.2
10/6/2006	17:00:00	21.9	7.22	99.0
10/6/2006	17:15:00	21.8	7.22	98.8
10/6/2006	17:30:00	21.6	7.22	98.4
10/6/2006	17:45:00	21.4	7.22	97.9
10/6/2006	18:00:00	21.2	7.21	97.4
10/6/2006	18:15:00	21.0	7.20	97.0
10/6/2006	18:30:00	20.9	7.19	96.6
10/6/2006	18:45:00	20.8	7.18	96.3

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/6/2006	19:00:00	20.7	7.20	96.3
10/6/2006	19:15:00	20.6	7.19	96.2
10/6/2006	19:30:00	20.6	7.18	95.9
10/6/2006	19:45:00	20.5	7.18	95.8
10/6/2006	20:00:00	20.5	7.17	95.6
10/6/2006	20:15:00	20.5	7.16	95.5
10/6/2006	20:30:00	20.4	7.16	95.3
10/6/2006	20:45:00	20.3	7.16	95.3
10/6/2006	21:00:00	20.3	7.16	95.2
10/6/2006	21:15:00	20.2	7.17	95.1
10/6/2006	21:30:00	20.2	7.17	95.1
10/6/2006	21:45:00	20.1	7.18	95.0
10/6/2006	22:00:00	19.8	-1.60	-21.1
10/6/2006	22:15:00	19.7	-1.60	-21.0
10/6/2006	22:30:00	19.7	-1.60	-21.0
10/6/2006	22:45:00	19.6	-1.60	-20.9
10/6/2006	23:00:00	19.7	7.22	94.8
10/6/2006	23:15:00	19.4	-1.60	-20.9
10/6/2006	23:30:00	19.6	7.24	94.8
10/6/2006	23:45:00	19.3	-1.60	-20.8
10/7/2006	0:00:00	19.5	7.26	94.8
10/7/2006	0:15:00	19.5	7.27	94.9
10/7/2006	0:30:00	19.4	7.28	95.0
10/7/2006	0:45:00	19.4	7.29	95.0
10/7/2006	1:00:00	19.3	7.30	95.1
10/7/2006	1:15:00	19.3	7.31	95.2
10/7/2006	1:30:00	19.0	-1.60	-20.7
10/7/2006	1:45:00	19.2	7.33	95.3
10/7/2006	2:00:00	19.2	7.34	95.2
10/7/2006	2:15:00	19.1	7.35	95.3
10/7/2006	2:30:00	19.1	7.36	95.3
10/7/2006	2:45:00	19.0	7.37	95.4
10/7/2006	3:00:00	18.8	-1.60	-20.6
10/7/2006	3:15:00	19.0	7.37	95.4
10/7/2006	3:30:00	19.0	7.38	95.4
10/7/2006	3:45:00	19.0	7.38	95.4
10/7/2006	4:00:00	18.9	7.39	95.4
10/7/2006	4:15:00	18.9	7.39	95.4
10/7/2006	4:30:00	18.8	7.40	95.4
10/7/2006	4:45:00	18.8	7.41	95.5
10/7/2006	5:00:00	18.8	7.41	95.5
10/7/2006	5:15:00	18.8	7.42	95.5
10/7/2006	5:30:00	18.7	7.43	95.6
10/7/2006	5:45:00	18.7	7.44	95.7
10/7/2006	6:00:00	18.7	7.44	95.7
10/7/2006	6:15:00	18.7	7.45	95.7
10/7/2006	6:30:00	18.6	7.46	95.7

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/7/2006	6:45:00	18.6	7.47	95.8
10/7/2006	7:00:00	18.5	7.48	95.8
10/7/2006	7:15:00	18.4	7.48	95.7
10/7/2006	7:30:00	18.4	7.48	95.5
10/7/2006	7:45:00	18.3	7.49	95.5
10/7/2006	8:00:00	18.3	7.50	95.7
10/7/2006	8:15:00	18.3	7.53	96.0
10/7/2006	8:30:00	18.3	7.56	96.4
10/7/2006	8:45:00	18.3	7.57	96.6
10/7/2006	9:00:00	18.4	7.60	97.1
10/7/2006	9:15:00	18.4	7.62	97.4
10/7/2006	9:30:00	18.5	7.64	97.8
10/7/2006	9:45:00	18.6	7.65	98.2
10/7/2006	10:00:00	18.8	7.66	98.7
10/7/2006	10:15:00	18.9	7.67	99.0
10/7/2006	10:30:00	19.2	7.68	99.7
10/7/2006	10:45:00	19.5	-1.60	-20.9
10/7/2006	11:00:00	20.1	7.65	101.1
10/7/2006	11:15:00	20.1	-1.60	-21.2
10/7/2006	11:30:00	20.5	-1.60	-21.3
10/7/2006	11:45:00	21.0	7.58	102.2
10/7/2006	12:00:00	21.4	7.56	102.7
10/7/2006	12:15:00	21.8	7.54	103.2
10/7/2006	12:30:00	22.1	7.52	103.5
10/7/2006	12:45:00	22.4	7.48	103.7
10/7/2006	13:00:00	22.8	7.44	104.0
10/7/2006	13:15:00	23.2	7.40	104.0
10/7/2006	13:30:00	23.5	7.36	104.1
10/7/2006	13:45:00	23.8	7.32	104.2
10/7/2006	14:00:00	24.1	7.28	104.2
10/7/2006	14:15:00	24.2	7.24	103.8
10/7/2006	14:30:00	23.9	7.21	102.8
10/7/2006	14:45:00	23.5	7.19	101.8
10/7/2006	15:00:00	23.2	7.18	101.0
10/7/2006	15:15:00	23.0	7.16	100.3
10/7/2006	15:30:00	22.8	7.13	99.5
10/7/2006	15:45:00	22.7	7.14	99.4
10/7/2006	16:00:00	22.7	7.16	99.8
10/7/2006	16:15:00	22.7	7.17	99.9
10/7/2006	16:30:00	22.6	7.19	99.9
10/7/2006	16:45:00	22.5	7.19	99.8
10/7/2006	17:00:00	22.5	7.18	99.6
10/7/2006	17:15:00	22.5	7.17	99.3
10/7/2006	17:30:00	22.4	7.15	99.0
10/7/2006	17:45:00	22.3	7.12	98.4
10/7/2006	18:00:00	22.2	7.08	97.7
10/7/2006	18:15:00	22.1	7.05	97.0

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/7/2006	18:30:00	22.0	7.04	96.7
10/7/2006	18:45:00	21.8	7.03	96.2
10/7/2006	19:00:00	21.6	7.03	95.8
10/7/2006	19:15:00	21.4	7.02	95.3
10/7/2006	19:30:00	21.1	7.03	94.8
10/7/2006	19:45:00	20.9	7.02	94.4
10/7/2006	20:00:00	20.8	7.00	94.0
10/7/2006	20:15:00	20.7	7.00	93.8
10/7/2006	20:30:00	20.7	7.01	93.8
10/7/2006	20:45:00	20.6	7.02	93.9
10/7/2006	21:00:00	20.6	7.03	93.9
10/7/2006	21:15:00	20.6	7.03	93.8
10/7/2006	21:30:00	20.5	7.01	93.5
10/7/2006	21:45:00	20.2	-1.60	-21.2
10/7/2006	22:00:00	20.3	7.01	93.1
10/7/2006	22:15:00	19.9	-1.60	-21.1
10/7/2006	22:30:00	20.0	7.08	93.5
10/7/2006	22:45:00	19.6	-1.60	-21.0
10/7/2006	23:00:00	19.8	7.14	93.9
10/7/2006	23:15:00	19.5	-1.60	-20.9
10/7/2006	23:30:00	19.4	-1.60	-20.9
10/7/2006	23:45:00	19.5	7.22	94.4
10/8/2006	0:00:00	19.2	-1.60	-20.8
10/8/2006	0:15:00	19.4	7.22	94.2
10/8/2006	0:30:00	19.3	7.22	94.1
10/8/2006	0:45:00	19.3	7.21	93.7
10/8/2006	1:00:00	19.2	7.21	93.7
10/8/2006	1:15:00	19.0	-1.60	-20.7
10/8/2006	1:30:00	19.1	7.25	94.0
10/8/2006	1:45:00	19.1	7.25	94.0
10/8/2006	2:00:00	19.1	7.24	93.9
10/8/2006	2:15:00	19.0	7.26	94.1
10/8/2006	2:30:00	19.0	7.35	95.1
10/8/2006	2:45:00	19.0	7.36	95.2
10/8/2006	3:00:00	18.9	7.37	95.2
10/8/2006	3:15:00	18.9	7.38	95.2
10/8/2006	3:30:00	18.8	7.39	95.2
10/8/2006	3:45:00	18.8	7.39	95.2
10/8/2006	4:00:00	18.8	7.40	95.2
10/8/2006	4:15:00	18.7	7.41	95.3
10/8/2006	4:30:00	18.6	7.43	95.4
10/8/2006	4:45:00	18.6	7.44	95.4
10/8/2006	5:00:00	18.5	7.45	95.4
10/8/2006	5:15:00	18.5	7.47	95.6
10/8/2006	5:30:00	18.4	7.49	95.7
10/8/2006	5:45:00	18.3	7.50	95.8
10/8/2006	6:00:00	18.3	7.51	95.9

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/8/2006	6:15:00	18.3	7.53	96.0
10/8/2006	6:30:00	18.3	7.54	96.1
10/8/2006	6:45:00	18.3	7.54	96.1
10/8/2006	7:00:00	18.2	7.55	96.2
10/8/2006	7:15:00	18.2	7.55	96.1
10/8/2006	7:30:00	18.2	7.54	95.9
10/8/2006	7:45:00	18.1	7.54	95.9
10/8/2006	8:00:00	18.1	7.56	96.0
10/8/2006	8:15:00	18.1	7.57	96.1
10/8/2006	8:30:00	18.1	7.58	96.3
10/8/2006	8:45:00	18.1	7.61	96.8
10/8/2006	9:00:00	18.2	7.64	97.3
10/8/2006	9:15:00	18.3	7.67	97.8
10/8/2006	9:30:00	18.4	7.70	98.4
10/8/2006	9:45:00	18.5	7.71	98.8
10/8/2006	10:00:00	18.6	7.73	99.2
10/8/2006	10:15:00	18.8	7.73	99.6
10/8/2006	10:30:00	19.1	7.74	100.2
10/8/2006	10:45:00	19.2	7.74	100.6
10/8/2006	11:00:00	18.9	-1.60	-20.7
10/8/2006	11:15:00	19.2	7.74	100.5
10/8/2006	11:30:00	19.3	7.74	100.9
10/8/2006	11:45:00	19.5	7.73	101.0
10/8/2006	12:00:00	19.4	-1.60	-20.9
10/8/2006	12:15:00	19.7	7.71	101.2
10/8/2006	12:30:00	19.6	-1.60	-21.0
10/8/2006	12:45:00	19.7	-1.60	-21.0
10/8/2006	13:00:00	19.7	-1.60	-21.0
10/8/2006	13:15:00	19.7	-1.60	-21.0
10/8/2006	13:30:00	19.8	-1.60	-21.1
10/8/2006	13:45:00	19.9	-1.60	-21.1
10/8/2006	14:00:00	19.9	-1.60	-21.1
10/8/2006	14:15:00	20.3	7.67	101.8
10/8/2006	14:30:00	20.4	7.68	102.2
10/8/2006	14:45:00	20.9	7.67	103.1
10/8/2006	15:00:00	21.4	7.64	103.7
10/8/2006	15:15:00	21.7	7.62	104.1
10/8/2006	15:30:00	21.8	7.58	103.7
10/8/2006	15:45:00	21.8	7.54	103.2
10/8/2006	16:00:00	21.6	7.49	102.2
10/8/2006	16:15:00	21.6	7.45	101.6
10/8/2006	16:30:00	21.5	7.41	100.8
10/8/2006	16:45:00	21.3	7.37	99.9
10/8/2006	17:00:00	21.2	7.35	99.3
10/8/2006	17:15:00	21.1	7.32	98.7
10/8/2006	17:30:00	20.9	7.28	98.0
10/8/2006	17:45:00	20.8	7.25	97.3

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/8/2006	18:00:00	20.7	7.23	96.7
10/8/2006	18:15:00	20.6	7.20	96.3
10/8/2006	18:30:00	20.5	7.19	95.9
10/8/2006	18:45:00	20.5	7.17	95.6
10/8/2006	19:00:00	20.4	7.18	95.5
10/8/2006	19:15:00	20.4	7.16	95.3
10/8/2006	19:30:00	20.4	7.14	95.0
10/8/2006	19:45:00	20.3	7.12	94.5
10/8/2006	20:00:00	20.2	7.12	94.4
10/8/2006	20:15:00	20.1	7.12	94.2
10/8/2006	20:30:00	20.1	7.11	94.1
10/8/2006	20:45:00	19.7	-1.60	-21.0
10/8/2006	21:00:00	19.6	-1.60	-21.0
10/8/2006	21:15:00	19.5	-1.60	-20.9
10/8/2006	21:30:00	19.4	-1.60	-20.9
10/8/2006	21:45:00	19.3	-1.60	-20.8
10/8/2006	22:00:00	19.2	-1.60	-20.8
10/8/2006	22:15:00	19.0	-1.60	-20.7
10/8/2006	22:30:00	19.2	6.89	89.4
10/8/2006	22:45:00	19.1	6.88	89.2
10/8/2006	23:00:00	19.0	6.86	88.7
10/8/2006	23:15:00	18.9	6.91	89.2
10/8/2006	23:30:00	18.8	6.98	89.9
10/8/2006	23:45:00	18.7	7.05	90.6
10/9/2006	0:00:00	18.5	7.20	92.2
10/9/2006	0:15:00	18.4	7.26	92.9
10/9/2006	0:30:00	18.4	7.29	93.1
10/9/2006	0:45:00	18.3	7.31	93.2
10/9/2006	1:00:00	18.2	7.34	93.4
10/9/2006	1:15:00	18.2	7.29	92.8
10/9/2006	1:30:00	18.2	7.31	93.0
10/9/2006	1:45:00	18.1	7.39	93.9
10/9/2006	2:00:00	17.9	7.45	94.3
10/9/2006	2:15:00	17.9	7.42	93.8
10/9/2006	2:30:00	17.9	7.51	95.0
10/9/2006	2:45:00	17.8	7.56	95.4
10/9/2006	3:00:00	17.7	7.59	95.6
10/9/2006	3:15:00	17.6	7.62	95.8
10/9/2006	3:30:00	17.5	7.63	95.6
10/9/2006	3:45:00	17.4	7.61	95.2
10/9/2006	4:00:00	17.2	7.68	95.8
10/9/2006	4:15:00	17.2	7.76	96.6
10/9/2006	4:30:00	17.1	7.77	96.6
10/9/2006	4:45:00	17.1	7.76	96.5
10/9/2006	5:00:00	17.0	7.76	96.4
10/9/2006	5:15:00	16.9	7.77	96.4
10/9/2006	5:30:00	16.9	7.79	96.3

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/9/2006	5:45:00	16.8	7.80	96.4
10/9/2006	6:00:00	16.8	7.81	96.4
10/9/2006	6:15:00	16.7	7.79	96.1
10/9/2006	6:30:00	16.6	7.81	96.1
10/9/2006	6:45:00	16.6	7.80	96.0
10/9/2006	7:00:00	16.5	7.82	96.0
10/9/2006	7:15:00	16.5	7.82	95.9
10/9/2006	7:30:00	16.4	7.81	95.6
10/9/2006	7:45:00	16.3	7.81	95.5
10/9/2006	8:00:00	16.3	7.80	95.4
10/9/2006	8:15:00	16.3	7.78	95.3
10/9/2006	8:30:00	16.3	7.69	94.1
10/9/2006	8:45:00	16.3	7.79	95.3
10/9/2006	9:00:00	16.3	7.75	94.8
10/9/2006	9:15:00	16.2	7.69	94.0
10/9/2006	9:30:00	16.1	7.65	93.2
10/9/2006	9:45:00	16.1	7.61	92.7
10/9/2006	10:00:00	16.2	7.65	93.2
10/9/2006	10:15:00	16.2	7.69	93.8
10/9/2006	10:30:00	16.4	7.71	94.4
10/9/2006	10:45:00	16.5	7.71	94.7
10/9/2006	11:00:00	16.8	7.67	94.6
10/9/2006	11:15:00	17.0	7.57	93.9
10/9/2006	11:30:00	17.1	7.49	93.2
10/9/2006	11:45:00	17.4	7.00	87.6
10/9/2006	12:00:00	17.8	6.29	79.5
10/9/2006	12:15:00	18.2	5.91	75.2
10/9/2006	12:30:00	18.6	5.63*	72.2
10/9/2006	12:45:00	19.0	5.62	72.7
10/9/2006	13:00:00	19.2	5.74	74.6
10/9/2006	13:15:00	19.5	5.76	75.3
10/9/2006	13:30:00	19.8	5.66	74.4
10/9/2006	13:45:00	19.9	-1.60	-21.1
10/9/2006	14:00:00	20.1	-1.60	-21.2
10/9/2006	14:15:00	20.7	5.07	67.9
10/9/2006	14:30:00	20.9	4.92	66.1
10/9/2006	14:45:00	21.1	4.79	64.6
10/9/2006	15:00:00	21.1	4.74	63.9
10/9/2006	15:15:00	21.0	4.77	64.2
10/9/2006	15:30:00	20.7	5.16	69.2
10/9/2006	15:45:00	20.6	5.64	75.3
10/9/2006	16:00:00	20.4	5.69	75.8
10/9/2006	16:15:00	20.4	5.48	72.9
10/9/2006	16:30:00	20.3	5.20	69.0
10/9/2006	16:45:00	20.1	4.94	65.4
10/9/2006	17:00:00	19.7	4.70	61.7
10/9/2006	17:15:00	19.0	-1.60	-20.7

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/9/2006	17:30:00	19.0	4.42	57.2
10/9/2006	17:45:00	18.8	4.33	55.8
10/9/2006	18:00:00	18.5	4.39	56.1
10/9/2006	18:15:00	18.5	4.48	57.3
10/9/2006	18:30:00	18.5	4.50	57.7
10/9/2006	18:45:00	18.4	4.45	56.9
10/9/2006	19:00:00	18.3	4.37	55.7
10/9/2006	19:15:00	18.1	4.31	54.8
10/9/2006	19:30:00	18.0	4.37	55.4
10/9/2006	19:45:00	17.9	4.50	57.0
10/9/2006	20:00:00	17.8	4.57	57.8
10/9/2006	20:15:00	17.8	4.59	57.9
10/9/2006	20:30:00	17.6	4.57	57.5
10/9/2006	20:45:00	17.3	4.51	56.3
10/9/2006	21:00:00	17.0	4.49	55.7
10/9/2006	21:15:00	16.6	4.53	55.8
10/9/2006	21:30:00	16.5	4.60	56.5
10/9/2006	21:45:00	16.4	4.65	56.9
10/9/2006	22:00:00	16.1	4.66	56.7
10/9/2006	22:15:00	15.6	4.67	56.2
10/9/2006	22:30:00	15.3	4.63	55.4
10/9/2006	22:45:00	15.1	4.57	54.5
10/9/2006	23:00:00	14.9	4.53	53.8
10/9/2006	23:15:00	14.8	4.51	53.4
10/9/2006	23:30:00	14.8	4.49	53.1
10/9/2006	23:45:00	14.8	4.46	52.8
10/10/2006	0:00:00	14.9	4.43	52.6
10/10/2006	0:15:00	15.0	4.39	52.2
10/10/2006	0:30:00	15.2	4.36	52.0
10/10/2006	0:45:00	15.2	4.33	51.8
10/10/2006	1:00:00	15.3	4.32	51.7
10/10/2006	1:15:00	15.3	4.31	51.6
10/10/2006	1:30:00	15.4	4.30	51.6
10/10/2006	1:45:00	15.4	4.29	51.5
10/10/2006	2:00:00	15.3	4.28	51.3
10/10/2006	2:15:00	15.3	4.28	51.2
10/10/2006	2:30:00	15.1	4.29	51.1
10/10/2006	2:45:00	14.9	4.31	51.1
10/10/2006	3:00:00	14.8	4.33	51.2
10/10/2006	3:15:00	14.7	4.33	51.2
10/10/2006	3:30:00	14.8	4.31	51.0
10/10/2006	3:45:00	14.9	4.31	51.2
10/10/2006	4:00:00	14.9	4.34	51.5
10/10/2006	4:15:00	14.8	4.38	51.9
10/10/2006	4:30:00	14.8	4.41	52.3
10/10/2006	4:45:00	14.8	4.43	52.4
10/10/2006	5:00:00	14.8	4.48	53.0

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/10/2006	5:15:00	14.7	4.52	53.4
10/10/2006	5:30:00	14.7	4.62	54.6
10/10/2006	5:45:00	14.7	4.66	55.0
10/10/2006	6:00:00	14.6	4.41	52.0
10/10/2006	6:15:00	14.6	4.45	52.4
10/10/2006	6:30:00	14.5	4.38	51.4
10/10/2006	6:45:00	14.4	4.39	51.5
10/10/2006	7:00:00	14.3	4.21	49.3
10/10/2006	7:15:00	14.3	4.24	49.7
10/10/2006	7:30:00	14.2	4.34	50.7
10/10/2006	7:45:00	14.1	4.43	51.6
10/10/2006	8:00:00	14.0	4.45	51.7
10/10/2006	8:15:00	13.9	6.78	78.7
10/10/2006	8:30:00	13.9	6.81	79.0
10/10/2006	8:45:00	13.8	6.85	79.3
10/10/2006	9:00:00	13.8	6.90	79.8
10/10/2006	9:15:00	13.8	6.93	80.3
10/10/2006	9:30:00	13.7	6.95	80.3
10/10/2006	9:45:00	13.8	6.68	77.4
10/10/2006	10:00:00	13.8	6.20	71.9
10/10/2006	10:15:00	13.9	5.91	68.7
10/10/2006	10:30:00	14.1	5.68	66.2
10/10/2006	10:45:00	14.2	5.40	63.1
10/10/2006	11:00:00	14.3	5.14	60.1
10/10/2006	11:15:00	14.3	4.93	57.7
10/10/2006	11:30:00	14.5	4.76	56.0
10/10/2006	11:45:00	14.6	4.66	54.9
10/10/2006	12:00:00	14.9	4.61	54.7
10/10/2006	12:15:00	15.1	4.57	54.5
10/10/2006	12:30:00	15.3	4.54	54.3
10/10/2006	12:45:00	15.5	4.49	53.9
10/10/2006	13:00:00	15.7	4.45	53.7
10/10/2006	13:15:00	15.9	4.41	53.4
10/10/2006	13:30:00	16.0	4.39	53.3
10/10/2006	13:45:00	16.1	4.40	53.7
10/10/2006	14:00:00	16.3	4.41	53.9
10/10/2006	14:15:00	16.4	4.43	54.3
10/10/2006	14:30:00	16.5	4.44	54.5
10/10/2006	14:45:00	16.5	4.45	54.6
10/10/2006	15:00:00	16.6	4.47	54.9
10/10/2006	15:15:00	16.6	4.48	55.2
10/10/2006	15:30:00	16.6	4.50	55.4
10/10/2006	15:45:00	16.6	4.51	55.5
10/10/2006	16:00:00	16.6	4.53	55.7
10/10/2006	16:15:00	16.6	4.55	55.9
10/10/2006	16:30:00	16.5	4.58	56.2
10/10/2006	16:45:00	16.5	4.61	56.6

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/10/2006	17:00:00	16.4	4.64	56.9
10/10/2006	17:15:00	16.3	4.68	57.2
10/10/2006	17:30:00	16.2	4.71	57.4
10/10/2006	17:45:00	16.1	4.72	57.4
10/10/2006	18:00:00	15.9	4.72	57.3
10/10/2006	18:15:00	15.8	4.73	57.2
10/10/2006	18:30:00	15.8	4.75	57.4
10/10/2006	18:45:00	15.7	4.78	57.7
10/10/2006	19:00:00	15.6	4.80	57.8
10/10/2006	19:15:00	15.6	4.82	58.0
10/10/2006	19:30:00	15.6	4.84	58.2
10/10/2006	19:45:00	15.5	4.84	58.1
10/10/2006	20:00:00	15.4	4.83	58.0
10/10/2006	20:15:00	15.4	4.83	57.9
10/10/2006	20:30:00	15.4	4.83	57.9
10/10/2006	20:45:00	15.4	4.82	57.7
10/10/2006	21:00:00	15.3	4.80	57.6
10/10/2006	21:15:00	15.3	4.78	57.2
10/10/2006	21:30:00	15.3	4.72	56.5
10/10/2006	21:45:00	15.3	4.63	55.4
10/10/2006	22:00:00	15.3	4.50	53.8
10/10/2006	22:15:00	15.2	4.37	52.2
10/10/2006	22:30:00	15.2	4.22	50.3
10/10/2006	22:45:00	15.1	4.07	48.5
10/10/2006	23:00:00	15.1	3.93	46.8
10/10/2006	23:15:00	15.0	3.79	45.1
10/10/2006	23:30:00	15.0	3.65	43.4
10/10/2006	23:45:00	14.9	3.52	41.7
10/11/2006	0:00:00	14.8	3.38	40.1
10/11/2006	0:15:00	14.8	3.26	38.6
10/11/2006	0:30:00	14.7	3.15	37.2
10/11/2006	0:45:00	14.6	3.05	35.9
10/11/2006	1:00:00	14.6	2.96	34.9
10/11/2006	1:15:00	14.5	2.88	33.9
10/11/2006	1:30:00	14.4	2.81	33.0
10/11/2006	1:45:00	14.4	2.76	32.3
10/11/2006	2:00:00	14.3	2.70	31.6
10/11/2006	2:15:00	14.2	2.66	31.1
10/11/2006	2:30:00	14.2	2.62	30.6
10/11/2006	2:45:00	14.1	2.58	30.1
10/11/2006	3:00:00	14.1	2.56	29.8
10/11/2006	3:15:00	14.0	2.54	29.6
10/11/2006	3:30:00	14.0	2.51	29.2
10/11/2006	3:45:00	13.9	2.50	29.0
10/11/2006	4:00:00	13.9	2.49	28.8
10/11/2006	4:15:00	13.8	2.47	28.6
10/11/2006	4:30:00	13.7	2.43	28.2

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/11/2006	4:45:00	13.7	2.41	27.8
10/11/2006	5:00:00	13.6	2.41	27.8
10/11/2006	5:15:00	13.6	2.40	27.7
10/11/2006	5:30:00	13.5	2.40	27.6
10/11/2006	5:45:00	13.4	2.39	27.5
10/11/2006	6:00:00	13.4	2.39	27.4
10/11/2006	6:15:00	13.4	2.38	27.3
10/11/2006	6:30:00	13.3	2.37	27.2
10/11/2006	6:45:00	13.3	2.35	27.0
10/11/2006	7:00:00	13.3	2.34	26.9
10/11/2006	7:15:00	13.3	2.33	26.6
10/11/2006	7:30:00	13.2	2.29	26.2
10/11/2006	7:45:00	13.2	2.25	25.7
10/11/2006	8:00:00	13.2	2.21	25.2
10/11/2006	8:15:00	13.2	2.18	24.9
10/11/2006	8:30:00	13.1	2.17	24.8
10/11/2006	8:45:00	13.1	2.16	24.6
10/11/2006	9:00:00	13.1	2.15	24.5
10/11/2006	9:15:00	13.1	2.14	24.4
10/11/2006	9:30:00	13.1	2.12	24.2
10/11/2006	9:45:00	13.1	2.11	24.0
10/11/2006	10:00:00	13.1	2.09	23.8
10/11/2006	10:15:00	13.1	2.07	23.7
10/11/2006	10:30:00	13.1	2.06	23.5
10/11/2006	10:45:00	13.1	2.04	23.3
10/11/2006	11:00:00	13.1	2.03	23.1
10/11/2006	11:15:00	13.2	2.01	23.0
10/11/2006	11:30:00	13.2	2.00	22.8
10/11/2006	11:45:00	13.2	1.98	22.6
10/11/2006	12:00:00	13.2	1.96	22.4
10/11/2006	12:15:00	13.2	1.96	22.4
10/11/2006	12:30:00	13.3	1.94	22.2
10/11/2006	12:45:00	13.3	1.93	22.1
10/11/2006	13:00:00	13.3	1.91	21.9
10/11/2006	13:15:00	13.4	1.90	21.8
10/11/2006	13:30:00	13.4	1.88	21.6
10/11/2006	13:45:00	13.4	1.87	21.5
10/11/2006	14:00:00	13.5	1.86	21.3
10/11/2006	14:15:00	13.5	1.84	21.2
10/11/2006	14:30:00	13.6	1.83	21.1
10/11/2006	14:45:00	13.6	1.82	20.9
10/11/2006	15:00:00	13.7	1.80	20.8
10/11/2006	15:15:00	13.7	1.79	20.6
10/11/2006	15:30:00	13.7	1.78	20.5
10/11/2006	15:45:00	13.8	1.77	20.4
10/11/2006	16:00:00	13.8	1.76	20.4
10/11/2006	16:15:00	13.8	1.75	20.3

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/11/2006	16:30:00	13.9	1.74	20.2
10/11/2006	16:45:00	13.9	1.73	20.1
10/11/2006	17:00:00	14.0	1.72	20.0
10/11/2006	17:15:00	14.0	1.71	19.9
10/11/2006	17:30:00	14.0	1.70	19.8
10/11/2006	17:45:00	14.1	1.69	19.7
10/11/2006	18:00:00	14.1	1.68	19.6
10/11/2006	18:15:00	14.1	1.67	19.5
10/11/2006	18:30:00	14.2	1.67	19.4
10/11/2006	18:45:00	14.2	1.66	19.3
10/11/2006	19:00:00	14.2	1.65	19.3
10/11/2006	19:15:00	14.3	1.65	19.2
10/11/2006	19:30:00	14.3	1.64	19.2
10/11/2006	19:45:00	14.3	1.63	19.1
10/11/2006	20:00:00	14.3	1.63	19.1
10/11/2006	20:15:00	14.4	1.62	19.0
10/11/2006	20:30:00	14.4	1.62	19.0
10/11/2006	20:45:00	14.4	1.60	18.8
10/11/2006	21:00:00	14.5	1.59	18.7
10/11/2006	21:15:00	14.5	1.58	18.6
10/11/2006	21:30:00	14.5	1.58	18.5
10/11/2006	21:45:00	14.5	1.57	18.5
10/11/2006	22:00:00	14.6	1.57	18.4
10/11/2006	22:15:00	14.6	1.56	18.3
10/11/2006	22:30:00	14.6	1.55	18.2
10/11/2006	22:45:00	14.6	1.55	18.2
10/11/2006	23:00:00	14.7	1.54	18.2
10/11/2006	23:15:00	14.7	1.53	18.1
10/11/2006	23:30:00	14.7	1.52	18.0
10/11/2006	23:45:00	14.7	1.52	18.0
10/12/2006	0:00:00	14.8	1.51	17.9
10/12/2006	0:15:00	14.8	1.51	17.8
10/12/2006	0:30:00	14.8	1.50	17.8
10/12/2006	0:45:00	14.8	1.50	17.7
10/12/2006	1:00:00	14.9	1.49	17.6
10/12/2006	1:15:00	14.9	1.48	17.6
10/12/2006	1:30:00	14.9	1.47	17.5
10/12/2006	1:45:00	14.9	1.47	17.4
10/12/2006	2:00:00	14.9	1.46	17.3
10/12/2006	2:15:00	15.0	1.45	17.3
10/12/2006	2:30:00	15.0	1.44	17.2
10/12/2006	2:45:00	15.0	1.44	17.1
10/12/2006	3:00:00	15.0	1.43	17.0
10/12/2006	3:15:00	15.0	1.41	16.7
10/12/2006	3:30:00	15.1	1.40	16.6
10/12/2006	3:45:00	15.1	1.39	16.6
10/12/2006	4:00:00	15.1	1.39	16.5

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/12/2006	4:15:00	15.1	1.38	16.4
10/12/2006	4:30:00	15.1	1.38	16.4
10/12/2006	4:45:00	15.1	1.37	16.4
10/12/2006	5:00:00	15.2	1.37	16.3
10/12/2006	5:15:00	15.2	1.36	16.2
10/12/2006	5:30:00	15.2	1.34	16.1
10/12/2006	5:45:00	15.2	1.34	16.0
10/12/2006	6:00:00	15.2	1.33	15.9
10/12/2006	6:15:00	15.2	1.32	15.8
10/12/2006	6:30:00	15.2	1.31	15.7
10/12/2006	6:45:00	15.2	1.31	15.6
10/12/2006	7:00:00	15.3	1.30	15.6
10/12/2006	7:15:00	15.3	1.30	15.6
10/12/2006	7:30:00	15.3	1.29	15.5
10/12/2006	7:45:00	15.3	1.29	15.5
10/12/2006	8:00:00	15.3	1.28	15.3
10/12/2006	8:15:00	15.3	1.27	15.3
10/12/2006	8:30:00	15.3	1.26	15.1
10/12/2006	8:45:00	15.3	1.25	15.0
10/12/2006	9:00:00	15.3	1.25	14.9
10/12/2006	9:15:00	15.3	1.24	14.8
10/12/2006	9:30:00	15.3	1.23	14.7
10/12/2006	9:45:00	15.4	1.22	14.7
10/12/2006	10:00:00	15.4	1.23	14.7
10/12/2006	10:15:00	15.4	1.23	14.7
10/12/2006	10:30:00	15.4	1.23	14.7
10/12/2006	10:45:00	15.4	1.21	14.5
10/12/2006	11:00:00	15.4	1.17	14.1
10/12/2006	11:15:00	15.4	1.14	13.7
10/12/2006	11:30:00	15.4	1.12	13.4
10/12/2006	11:45:00	15.4	1.10	13.1
10/12/2006	12:00:00	15.4	1.08	13.0
10/12/2006	12:15:00	15.4	1.06	12.7
10/12/2006	12:30:00	15.4	1.04	12.5
10/12/2006	12:45:00	15.4	1.03	12.3
10/12/2006	13:00:00	15.4	1.02	12.2
10/12/2006	13:15:00	15.4	1.00	12.0
10/12/2006	13:30:00	15.4	0.99	11.9
10/12/2006	13:45:00	15.4	0.98	11.8
10/12/2006	14:00:00	15.4	0.98	11.7
10/12/2006	14:15:00	15.4	0.98	11.7
10/12/2006	14:30:00	15.4	0.96	11.6
10/12/2006	14:45:00	15.4	0.96	11.5
10/12/2006	15:00:00	15.4	0.96	11.5
10/12/2006	15:15:00	15.4	0.95	11.4
10/12/2006	15:30:00	15.4	0.94	11.2
10/12/2006	15:45:00	15.4	0.93	11.1

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/12/2006	16:00:00	15.4	0.92	11.0
10/12/2006	16:15:00	15.4	0.91	10.9
10/12/2006	16:30:00	15.4	0.90	10.7
10/12/2006	16:45:00	15.4	0.89	10.6
10/12/2006	17:00:00	15.4	0.88	10.6
10/12/2006	17:15:00	15.4	0.87	10.5
10/12/2006	17:30:00	15.4	0.87	10.4
10/12/2006	17:45:00	15.4	0.86	10.3
10/12/2006	18:00:00	15.4	0.86	10.3
10/12/2006	18:15:00	15.4	0.85	10.1
10/12/2006	18:30:00	15.4	0.83	10.0
10/12/2006	18:45:00	15.4	0.82	9.9
10/12/2006	19:00:00	15.4	0.81	9.7
10/12/2006	19:15:00	15.4	0.78	9.4
10/12/2006	19:30:00	15.5	0.76	9.1
10/12/2006	19:45:00	15.5	0.74	8.9
10/12/2006	20:00:00	15.5	0.72	8.7
10/12/2006	20:15:00	15.5	0.71	8.5
10/12/2006	20:30:00	15.5	0.69	8.3
10/12/2006	20:45:00	15.5	0.68	8.2
10/12/2006	21:00:00	15.5	0.66	8.0
10/12/2006	21:15:00	15.6	0.65	7.8
10/12/2006	21:30:00	15.6	0.64	7.7
10/12/2006	21:45:00	15.6	0.62	7.5
10/12/2006	22:00:00	15.6	0.62	7.4
10/12/2006	22:15:00	15.6	0.61	7.3
10/12/2006	22:30:00	15.7	0.59	7.1
10/12/2006	22:45:00	15.7	0.58	7.0
10/12/2006	23:00:00	15.7	0.57	6.9
10/12/2006	23:15:00	15.7	0.56	6.8
10/12/2006	23:30:00	15.7	0.55	6.7
10/12/2006	23:45:00	15.8	0.54	6.5
10/13/2006	0:00:00	15.8	0.53	6.4
10/13/2006	0:15:00	15.8	0.52	6.3
10/13/2006	0:30:00	15.8	0.52	6.3
10/13/2006	0:45:00	15.8	0.51	6.2
10/13/2006	1:00:00	15.9	0.50	6.1
10/13/2006	1:15:00	15.9	0.49	5.9
10/13/2006	1:30:00	15.9	0.48	5.9
10/13/2006	1:45:00	15.9	0.47	5.7
10/13/2006	2:00:00	15.9	0.47	5.7
10/13/2006	2:15:00	15.9	0.45	5.5
10/13/2006	2:30:00	15.9	0.44	5.3
10/13/2006	2:45:00	16.0	0.43	5.2
10/13/2006	3:00:00	16.0	0.42	5.1
10/13/2006	3:15:00	16.0	0.42	5.0
10/13/2006	3:30:00	16.0	0.41	5.0

Table 5.11. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/13/2006	3:45:00	16.0	0.40	4.8
10/13/2006	4:00:00	16.0	0.39	4.7
10/13/2006	4:15:00	16.0	0.37	4.5
10/13/2006	4:30:00	16.1	0.36	4.4
10/13/2006	4:45:00	16.1	0.36	4.4
10/13/2006	5:00:00	16.1	0.35	4.2
10/13/2006	5:15:00	16.1	0.34	4.1
10/13/2006	5:30:00	16.1	0.33	4.0
10/13/2006	5:45:00	16.1	0.32	3.9
10/13/2006	6:00:00	16.1	0.32	3.9
10/13/2006	6:15:00	16.1	0.31	3.7
10/13/2006	6:30:00	16.1	0.30	3.7
10/13/2006	6:45:00	16.1	0.30	3.6
10/13/2006	7:00:00	16.1	0.29	3.5
10/13/2006	7:15:00	16.2	0.28	3.4
10/13/2006	7:30:00	16.2	0.27	3.3
10/13/2006	7:45:00	16.2	0.26	3.2
10/13/2006	8:00:00	16.2	0.26	3.1
10/13/2006	8:15:00	16.2	0.25	3.0
10/13/2006	8:30:00	16.2	0.24	2.9
10/13/2006	8:45:00	16.2	0.22	2.7
10/13/2006	9:00:00	16.2	0.21	2.6
10/13/2006	9:15:00	16.2	0.21	2.6
10/13/2006	9:30:00	16.2	0.20	2.5
10/13/2006	9:45:00	16.2	0.20	2.4
10/13/2006	10:00:00	16.2	0.19	2.4
10/13/2006	10:15:00	16.2	0.19	2.3
10/13/2006	10:30:00	16.1	0.19	2.3
10/13/2006	10:45:00	16.1	0.18	2.2
10/13/2006	11:00:00	16.1	0.18	2.1
10/13/2006	11:15:00	16.1	0.17	2.1
10/13/2006	11:30:00	16.1	0.17	2.0
10/13/2006	11:45:00	16.1	0.16	2.0
10/13/2006	12:00:00	16.1	0.16	2.0
10/13/2006	12:15:00	16.1	0.17	2.0
10/13/2006	12:30:00	16.1	0.15	1.8
10/13/2006	12:45:00	16.0	0.13	1.5

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

Serial Number	**40184**	**Name**	**:**	**Homer**
Log	**File**	**Name**	**:**	**10_6_06LosPadillas**
Setup	**Date**	**(MMDDYY)**	**:**	**100506**
Setup	**Time**	**(HHMMSS)**	**:**	**154046**
Starting	**Date**	**(MMDDYY)**	**:**	**100606**
Starting	**Time**	**(HHMMSS)**	**:**	**140000**
Stopping	**Date**	**(MMDDYY)**	**:**	**101306**
Stopping	**Time**	**(HHMMSS)**	**:**	**100000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temp (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
10/06/2006	14:00:00	23.4	422	8.35	6.67	93.7
10/06/2006	14:15:00	23.3	422	8.35	6.50	91.6
10/06/2006	14:30:00	23.2	416	8.35	6.47	90.7
10/06/2006	14:45:00	23.1	409	8.36	6.51	91.1
10/06/2006	15:00:00	22.9	411	8.36	6.45	89.8
10/06/2006	15:15:00	22.7	424	8.34	6.45	89.5
10/06/2006	15:30:00	22.6	437	8.33	6.42	89.0
10/06/2006	15:45:00	22.5	444	8.32	6.39	88.3
10/06/2006	16:00:00	22.4	449	8.32	6.41	88.4
10/06/2006	16:15:00	22.3	452	8.32	6.43	88.2
10/06/2006	16:30:00	22.1	457	8.31	6.43	88.2
10/06/2006	16:45:00	21.9	460	8.31	6.45	88.2
10/06/2006	17:00:00	21.8	463	8.31	6.50	88.6
10/06/2006	17:15:00	21.6	464	8.30	6.47	87.9
10/06/2006	17:30:00	21.4	466	8.30	6.42	86.9
10/06/2006	17:45:00	21.2	467	8.29	6.47	87.1
10/06/2006	18:00:00	21.0	471	8.28	6.48	87.0
10/06/2006	18:15:00	20.8	472	8.27	6.47	86.6
10/06/2006	18:30:00	20.7	473	8.26	6.48	86.5
10/06/2006	18:45:00	20.6	474	8.24	6.48	86.3
10/06/2006	19:00:00	20.5	476	8.23	6.46	86.0
10/06/2006	19:15:00	20.5	477	8.22	6.47	86.0
10/06/2006	19:30:00	20.4	478	8.21	6.43	85.4
10/06/2006	19:45:00	20.4	477	8.20	6.48	86.1
10/06/2006	20:00:00	20.4	478	8.18	6.41	84.9
10/06/2006	20:15:00	20.3	478	8.17	6.41	85.0
10/06/2006	20:30:00	20.3	479	8.16	6.40	84.7
10/06/2006	20:45:00	20.2	480	8.16	6.43	85.0
10/06/2006	21:00:00	20.1	481	8.15	6.46	85.1
10/06/2006	21:15:00	20.1	480	8.15	6.46	85.2
10/06/2006	21:30:00	20.0	480	8.14	6.43	84.7
10/06/2006	21:45:00	20.0	480	8.13	6.44	84.7

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/06/2006	22:00:00	19.9	479	8.13	6.45	84.7
10/06/2006	22:15:00	19.8	479	8.13	6.52	85.5
10/06/2006	22:30:00	19.7	479	8.12	6.50	85.1
10/06/2006	22:45:00	19.6	481	8.12	6.49	84.9
10/06/2006	23:00:00	19.6	480	8.12	6.52	85.0
10/06/2006	23:15:00	19.5	481	8.11	6.55	85.3
10/06/2006	23:30:00	19.4	479	8.11	6.52	84.9
10/06/2006	23:45:00	19.4	478	8.11	6.50	84.5
10/07/2006	0:00:00	19.3	476	8.11	6.55	85.2
10/07/2006	0:15:00	19.3	476	8.11	6.56	85.1
10/07/2006	0:30:00	19.3	475	8.10	6.56	85.1
10/07/2006	0:45:00	19.2	474	8.10	6.58	85.3
10/07/2006	1:00:00	19.2	473	8.10	6.59	85.4
10/07/2006	1:15:00	19.2	473	8.10	6.61	85.6
10/07/2006	1:30:00	19.1	472	8.10	6.61	85.5
10/07/2006	1:45:00	19.1	471	8.10	6.61	85.4
10/07/2006	2:00:00	19.0	471	8.09	6.60	85.1
10/07/2006	2:15:00	19.0	471	8.09	6.64	85.6
10/07/2006	2:30:00	18.9	469	8.10	6.66	85.8
10/07/2006	2:45:00	18.9	466	8.10	6.65	85.6
10/07/2006	3:00:00	18.9	468	8.09	6.66	85.7
10/07/2006	3:15:00	18.8	467	8.09	6.67	85.8
10/07/2006	3:30:00	18.8	466	8.10	6.65	85.5
10/07/2006	3:45:00	18.8	466	8.10	6.68	85.8
10/07/2006	4:00:00	18.8	464	8.10	6.67	85.7
10/07/2006	4:15:00	18.7	461	8.09	6.68	85.7
10/07/2006	4:30:00	18.7	460	8.09	6.70	85.9
10/07/2006	4:45:00	18.7	459	8.09	6.67	85.5
10/07/2006	5:00:00	18.6	458	8.09	6.68	85.5
10/07/2006	5:15:00	18.6	456	8.09	6.69	85.7
10/07/2006	5:30:00	18.6	455	8.10	6.70	85.7
10/07/2006	5:45:00	18.6	453	8.10	6.71	85.8
10/07/2006	6:00:00	18.5	451	8.10	6.68	85.3
10/07/2006	6:15:00	18.5	450	8.10	6.70	85.6
10/07/2006	6:30:00	18.5	449	8.10	6.72	85.8
10/07/2006	6:45:00	18.4	445	8.10	6.73	85.8
10/07/2006	7:00:00	18.3	443	8.10	6.73	85.7
10/07/2006	7:15:00	18.3	441	8.11	6.73	85.5
10/07/2006	7:30:00	18.2	439	8.11	6.73	85.4
10/07/2006	7:45:00	18.2	436	8.11	6.78	86.0
10/07/2006	8:00:00	18.1	435	8.12	6.79	86.1
10/07/2006	8:15:00	18.1	432	8.13	6.80	86.2
10/07/2006	8:30:00	18.2	431	8.13	6.84	86.8
10/07/2006	8:45:00	18.2	429	8.14	6.86	87.0
10/07/2006	9:00:00	18.2	426	8.15	6.90	87.5
10/07/2006	9:15:00	18.2	425	8.16	6.91	87.7

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/07/2006	9:30:00	18.3	423	8.17	6.92	88.1
10/07/2006	9:45:00	18.5	422	8.17	6.93	88.5
10/07/2006	10:00:00	18.6	421	8.19	6.93	88.7
10/07/2006	10:15:00	18.7	419	8.19	6.94	89.0
10/07/2006	10:30:00	19.0	417	8.20	6.93	89.5
10/07/2006	10:45:00	19.6	416	8.22	6.91	90.1
10/07/2006	11:00:00	19.9	415	8.23	6.91	90.8
10/07/2006	11:15:00	20.2	414	8.24	6.88	90.9
10/07/2006	11:30:00	20.6	413	8.25	6.85	91.2
10/07/2006	11:45:00	20.9	413	8.25	6.84	91.7
10/07/2006	12:00:00	21.3	411	8.26	6.80	91.8
10/07/2006	12:15:00	21.6	407	8.27	6.77	92.1
10/07/2006	12:30:00	22.0	402	8.27	6.74	92.3
10/07/2006	12:45:00	22.3	402	8.28	6.75	92.9
10/07/2006	13:00:00	22.7	404	8.28	6.66	92.4
10/07/2006	13:15:00	23.1	406	8.28	6.63	92.6
10/07/2006	13:30:00	23.3	407	8.28	6.60	92.6
10/07/2006	13:45:00	23.7	408	8.28	6.55	92.5
10/07/2006	14:00:00	24.0	408	8.28	6.53	92.8
10/07/2006	14:15:00	24.1	409	8.28	6.48	92.2
10/07/2006	14:30:00	23.8	410	8.28	6.43	91.1
10/07/2006	14:45:00	23.4	413	8.28	6.45	90.6
10/07/2006	15:00:00	23.0	415	8.27	6.48	90.5
10/07/2006	15:15:00	22.9	418	8.26	6.48	90.0
10/07/2006	15:30:00	22.6	421	8.26	6.46	89.4
10/07/2006	15:45:00	22.6	425	8.26	6.47	89.6
10/07/2006	16:00:00	22.6	429	8.25	6.47	89.6
10/07/2006	16:15:00	22.6	433	8.25	6.49	89.8
10/07/2006	16:30:00	22.5	436	8.25	6.50	89.8
10/07/2006	16:45:00	22.4	439	8.25	6.53	90.1
10/07/2006	17:00:00	22.3	444	8.24	6.50	89.5
10/07/2006	17:15:00	22.3	449	8.24	6.47	89.1
10/07/2006	17:30:00	22.3	454	8.23	6.47	89.1
10/07/2006	17:45:00	22.2	458	8.21	6.41	88.0
10/07/2006	18:00:00	22.1	461	8.20	6.44	88.2
10/07/2006	18:15:00	22.0	464	8.19	6.41	87.4
10/07/2006	18:30:00	21.9	468	8.18	6.36	86.8
10/07/2006	18:45:00	21.7	470	8.16	6.37	86.6
10/07/2006	19:00:00	21.5	472	8.15	6.34	86.0
10/07/2006	19:15:00	21.3	475	8.14	6.38	86.1
10/07/2006	19:30:00	20.9	476	8.13	6.38	85.6
10/07/2006	19:45:00	20.8	478	8.13	6.40	85.5
10/07/2006	20:00:00	20.6	478	8.12	6.42	85.5
10/07/2006	20:15:00	20.6	479	8.12	6.41	85.3
10/07/2006	20:30:00	20.5	479	8.11	6.43	85.5
10/07/2006	20:45:00	20.5	479	8.11	6.41	85.1

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/07/2006	21:00:00	20.4	481	8.10	6.41	85.2
10/07/2006	21:15:00	20.4	481	8.09	6.38	84.7
10/07/2006	21:30:00	20.4	482	8.09	6.40	84.9
10/07/2006	21:45:00	20.3	481	8.09	6.42	85.0
10/07/2006	22:00:00	20.2	481	8.09	6.43	84.9
10/07/2006	22:15:00	20.0	481	8.08	6.44	84.8
10/07/2006	22:30:00	19.9	480	8.08	6.47	84.9
10/07/2006	22:45:00	19.7	480	8.08	6.50	85.1
10/07/2006	23:00:00	19.6	477	8.08	6.52	85.3
10/07/2006	23:15:00	19.5	475	8.09	6.53	85.2
10/07/2006	23:30:00	19.4	475	8.09	6.54	85.1
10/07/2006	23:45:00	19.3	474	8.08	6.54	84.9
10/08/2006	0:00:00	19.3	474	8.08	6.58	85.4
10/08/2006	0:15:00	19.2	473	8.07	6.58	85.3
10/08/2006	0:30:00	19.2	476	8.07	6.58	85.2
10/08/2006	0:45:00	19.1	478	8.06	6.55	84.7
10/08/2006	1:00:00	19.1	479	8.06	6.57	84.8
10/08/2006	1:15:00	19.0	479	8.06	6.57	84.7
10/08/2006	1:30:00	19.0	476	8.06	6.60	85.0
10/08/2006	1:45:00	19.0	477	8.05	6.62	85.3
10/08/2006	2:00:00	18.9	475	8.06	6.59	84.9
10/08/2006	2:15:00	18.9	471	8.06	6.64	85.5
10/08/2006	2:30:00	18.9	469	8.07	6.65	85.6
10/08/2006	2:45:00	18.8	467	8.07	6.65	85.5
10/08/2006	3:00:00	18.8	467	8.07	6.66	85.7
10/08/2006	3:15:00	18.7	466	8.07	6.68	85.6
10/08/2006	3:30:00	18.7	466	8.08	6.70	85.9
10/08/2006	3:45:00	18.6	466	8.08	6.70	85.8
10/08/2006	4:00:00	18.6	465	8.07	6.72	86.1
10/08/2006	4:15:00	18.6	463	8.08	6.70	85.7
10/08/2006	4:30:00	18.5	463	8.08	6.70	85.6
10/08/2006	4:45:00	18.4	462	8.08	6.73	85.8
10/08/2006	5:00:00	18.4	459	8.09	6.71	85.4
10/08/2006	5:15:00	18.3	458	8.09	6.75	85.9
10/08/2006	5:30:00	18.2	455	8.09	6.77	86.0
10/08/2006	5:45:00	18.2	453	8.10	6.79	86.2
10/08/2006	6:00:00	18.2	451	8.10	6.77	85.8
10/08/2006	6:15:00	18.1	449	8.10	6.80	86.2
10/08/2006	6:30:00	18.1	447	8.11	6.79	86.0
10/08/2006	6:45:00	18.1	444	8.10	6.79	86.0
10/08/2006	7:00:00	18.1	441	8.11	6.77	85.8
10/08/2006	7:15:00	18.0	438	8.12	6.81	86.2
10/08/2006	7:30:00	18.0	436	8.12	6.81	86.1
10/08/2006	7:45:00	18.0	433	8.13	6.82	86.1
10/08/2006	8:00:00	17.9	431	8.13	6.83	86.3
10/08/2006	8:15:00	17.9	428	8.14	6.83	86.3

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/08/2006	8:30:00	18.0	426	8.14	6.86	86.6
10/08/2006	8:45:00	18.0	423	8.15	6.89	87.0
10/08/2006	9:00:00	18.1	420	8.16	6.89	87.3
10/08/2006	9:15:00	18.1	419	8.17	6.94	87.9
10/08/2006	9:30:00	18.2	416	8.18	6.96	88.4
10/08/2006	9:45:00	18.4	415	8.18	6.94	88.4
10/08/2006	10:00:00	18.5	413	8.19	6.98	89.0
10/08/2006	10:15:00	18.6	413	8.20	6.98	89.4
10/08/2006	10:30:00	18.9	411	8.21	6.98	89.8
10/08/2006	10:45:00	19.1	410	8.21	6.98	90.2
10/08/2006	11:00:00	19.0	408	8.22	6.98	90.0
10/08/2006	11:15:00	19.0	407	8.22	6.99	90.3
10/08/2006	11:30:00	19.2	406	8.23	7.01	90.8
10/08/2006	11:45:00	19.4	404	8.24	6.98	90.7
10/08/2006	12:00:00	19.5	403	8.24	6.98	90.8
10/08/2006	12:15:00	19.6	401	8.26	6.97	91.0
10/08/2006	12:30:00	19.7	399	8.27	6.98	91.3
10/08/2006	12:45:00	19.8	398	8.27	6.97	91.3
10/08/2006	13:00:00	19.7	396	8.28	6.96	91.1
10/08/2006	13:15:00	19.8	396	8.28	6.95	91.0
10/08/2006	13:30:00	19.9	396	8.29	6.93	91.0
10/08/2006	13:45:00	20.0	395	8.30	6.91	90.9
10/08/2006	14:00:00	20.0	394	8.30	6.93	91.3
10/08/2006	14:15:00	20.1	395	8.30	6.93	91.4
10/08/2006	14:30:00	20.3	395	8.31	6.93	91.7
10/08/2006	14:45:00	20.8	398	8.31	6.92	92.4
10/08/2006	15:00:00	21.3	400	8.31	6.86	92.5
10/08/2006	15:15:00	21.6	402	8.31	6.84	92.9
10/08/2006	15:30:00	21.6	407	8.30	6.80	92.5
10/08/2006	15:45:00	21.6	412	8.30	6.77	91.9
10/08/2006	16:00:00	21.5	419	8.28	6.74	91.4
10/08/2006	16:15:00	21.5	425	8.27	6.70	90.8
10/08/2006	16:30:00	21.3	431	8.25	6.65	89.8
10/08/2006	16:45:00	21.2	437	8.23	6.62	89.2
10/08/2006	17:00:00	21.0	441	8.22	6.59	88.5
10/08/2006	17:15:00	20.9	444	8.20	6.58	88.2
10/08/2006	17:30:00	20.8	448	8.18	6.55	87.6
10/08/2006	17:45:00	20.6	453	8.17	6.55	87.2
10/08/2006	18:00:00	20.5	456	8.15	6.48	86.2
10/08/2006	18:15:00	20.5	458	8.14	6.45	85.6
10/08/2006	18:30:00	20.4	458	8.12	6.46	85.7
10/08/2006	18:45:00	20.3	460	8.11	6.47	85.7
10/08/2006	19:00:00	20.2	462	8.10	6.40	84.6
10/08/2006	19:15:00	20.2	464	8.09	6.40	84.7
10/08/2006	19:30:00	20.2	468	8.08	6.40	84.5
10/08/2006	19:45:00	20.2	473	8.06	6.40	84.5

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/08/2006	20:00:00	20.1	475	8.06	6.38	84.1
10/08/2006	20:15:00	20.0	479	8.05	6.38	84.0
10/08/2006	20:30:00	19.9	480	8.04	6.39	83.9
10/08/2006	20:45:00	19.8	480	8.03	6.40	83.9
10/08/2006	21:00:00	19.7	481	8.03	6.41	83.9
10/08/2006	21:15:00	19.6	483	8.02	6.44	84.1
10/08/2006	21:30:00	19.5	482	8.02	6.42	83.7
10/08/2006	21:45:00	19.4	481	8.02	6.45	83.9
10/08/2006	22:00:00	19.3	481	8.01	6.45	83.7
10/08/2006	22:15:00	19.1	479	8.02	6.48	83.8
10/08/2006	22:30:00	19.0	478	8.02	6.53	84.2
10/08/2006	22:45:00	18.9	475	8.02	6.54	84.2
10/08/2006	23:00:00	18.8	474	8.02	6.54	84.1
10/08/2006	23:15:00	18.7	475	8.02	6.54	83.9
10/08/2006	23:30:00	18.6	474	8.01	6.57	84.1
10/08/2006	23:45:00	18.5	476	8.01	6.60	84.3
10/09/2006	0:00:00	18.4	476	8.01	6.62	84.3
10/09/2006	0:15:00	18.3	475	8.01	6.62	84.2
10/09/2006	0:30:00	18.2	474	8.01	6.66	84.5
10/09/2006	0:45:00	18.1	471	8.01	6.66	84.3
10/09/2006	1:00:00	18.1	471	8.01	6.68	84.5
10/09/2006	1:15:00	18.0	471	8.02	6.70	84.8
10/09/2006	1:30:00	18.0	472	8.01	6.69	84.7
10/09/2006	1:45:00	17.9	467	8.02	6.71	84.7
10/09/2006	2:00:00	17.8	460	8.03	6.76	85.1
10/09/2006	2:15:00	17.7	457	8.03	6.78	85.2
10/09/2006	2:30:00	17.7	457	8.04	6.79	85.3
10/09/2006	2:45:00	17.6	455	8.04	6.83	85.7
10/09/2006	3:00:00	17.5	452	8.05	6.84	85.7
10/09/2006	3:15:00	17.4	448	8.06	6.89	86.1
10/09/2006	3:30:00	17.3	443	8.06	6.93	86.4
10/09/2006	3:45:00	17.2	439	8.08	6.95	86.4
10/09/2006	4:00:00	17.1	435	8.08	6.98	86.6
10/09/2006	4:15:00	17.0	431	8.09	7.01	86.7
10/09/2006	4:30:00	16.9	430	8.09	7.02	86.8
10/09/2006	4:45:00	16.9	428	8.09	7.01	86.7
10/09/2006	5:00:00	16.8	426	8.10	7.02	86.6
10/09/2006	5:15:00	16.8	426	8.10	7.02	86.5
10/09/2006	5:30:00	16.7	424	8.10	7.01	86.3
10/09/2006	5:45:00	16.6	421	8.11	7.02	86.2
10/09/2006	6:00:00	16.6	420	8.11	7.03	86.3
10/09/2006	6:15:00	16.6	421	8.11	7.04	86.3
10/09/2006	6:30:00	16.5	420	8.11	7.04	86.2
10/09/2006	6:45:00	16.4	418	8.10	7.05	86.3
10/09/2006	7:00:00	16.4	414	8.11	7.06	86.2
10/09/2006	7:15:00	16.3	411	8.11	7.07	86.3

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/09/2006	7:30:00	16.2	410	8.11	7.05	85.9
10/09/2006	7:45:00	16.2	409	8.11	7.10	86.4
10/09/2006	8:00:00	16.1	407	8.11	7.11	86.5
10/09/2006	8:15:00	16.2	405	8.10	7.14	86.9
10/09/2006	8:30:00	16.2	400	8.09	7.09	86.2
10/09/2006	8:45:00	16.2	397	8.08	7.07	86.0
10/09/2006	9:00:00	16.1	391	8.06	7.05	85.7
10/09/2006	9:15:00	16.1	371	8.05	6.96	84.5
10/09/2006	9:30:00	15.9	344	8.05	6.90	83.5
10/09/2006	9:45:00	15.9	328	8.04	6.86	83.0
10/09/2006	10:00:00	16.0	317	8.05	6.88	83.4
10/09/2006	10:15:00	16.0	304	8.05	6.95	84.2
10/09/2006	10:30:00	16.2	303	8.06	6.94	84.5
10/09/2006	10:45:00	16.4	306	8.05	6.93	84.6
10/09/2006	11:00:00	16.6	312	8.04	6.92	84.8
10/09/2006	11:15:00	16.8	311	8.03	6.82	84.0
10/09/2006	11:30:00	16.9	308	8.05	6.76	83.5
10/09/2006	11:45:00	17.3	311	8.05	6.70	83.4
10/09/2006	12:00:00	17.7	308	8.05	6.61	83.0
10/09/2006	12:15:00	18.0	307	8.05	6.62	83.7
10/09/2006	12:30:00	18.4	309	8.05	6.59	84.0
10/09/2006	12:45:00	18.8	313	8.05	6.58	84.5
10/09/2006	13:00:00	19.1	319	8.05	6.57	84.8
10/09/2006	13:15:00	19.3	327	8.03	6.57	85.3
10/09/2006	13:30:00	19.6	334	8.02	6.54	85.5
10/09/2006	13:45:00	20.0	339	8.02	6.49	85.3
10/09/2006	14:00:00	20.2	344	8.01	6.47	85.5
10/09/2006	14:15:00	20.5	350	8.00	6.47	86.0
10/09/2006	14:30:00	20.7	355	8.00	6.43	85.8
10/09/2006	14:45:00	20.9	360	7.98	6.36	85.3
10/09/2006	15:00:00	20.9	365	7.97	6.36	85.3
10/09/2006	15:15:00	20.8	371	7.96	6.36	85.0
10/09/2006	15:30:00	20.6	378	7.95	6.33	84.3
10/09/2006	15:45:00	20.4	385	7.93	6.28	83.4
10/09/2006	16:00:00	20.3	391	7.91	6.23	82.4
10/09/2006	16:15:00	20.2	397	7.90	6.23	82.3
10/09/2006	16:30:00	20.1	400	7.88	6.18	81.5
10/09/2006	16:45:00	20.0	398	7.87	6.17	81.2
10/09/2006	17:00:00	19.5	391	7.88	6.28	81.9
10/09/2006	17:15:00	19.1	384	7.89	6.34	81.9
10/09/2006	17:30:00	18.9	382	7.89	6.33	81.4
10/09/2006	17:45:00	18.6	379	7.89	6.35	81.3
10/09/2006	18:00:00	18.3	373	7.90	6.41	81.5
10/09/2006	18:15:00	18.3	373	7.90	6.43	81.6
10/09/2006	18:30:00	18.4	371	7.89	6.39	81.3
10/09/2006	18:45:00	18.2	370	7.89	6.36	80.8

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/09/2006	19:00:00	18.1	369	7.89	6.31	80.0
10/09/2006	19:15:00	18.0	369	7.88	6.30	79.6
10/09/2006	19:30:00	17.9	371	7.88	6.32	79.7
10/09/2006	19:45:00	17.8	372	7.88	6.30	79.3
10/09/2006	20:00:00	17.7	372	7.88	6.34	79.6
10/09/2006	20:15:00	17.6	364	7.87	6.27	78.6
10/09/2006	20:30:00	17.5	350	7.87	6.24	77.9
10/09/2006	20:45:00	17.1	329	7.91	6.21	77.0
10/09/2006	21:00:00	16.8	319	7.96	6.13	75.6
10/09/2006	21:15:00	16.5	312	8.00	6.17	75.5
10/09/2006	21:30:00	16.4	305	8.01	6.13	74.9
10/09/2006	21:45:00	16.2	287	8.04	6.18	75.2
10/09/2006	22:00:00	15.9	264	8.11	6.38	77.1
10/09/2006	22:15:00	15.4	259	8.18	6.51	77.9
10/09/2006	22:30:00	15.1	261	8.21	6.60	78.5
10/09/2006	22:45:00	14.9	263	8.23	6.67	79.0
10/09/2006	23:00:00	14.7	259	8.25	6.73	79.4
10/09/2006	23:15:00	14.6	266	8.24	6.81	80.1
10/09/2006	23:30:00	14.6	271	8.23	6.82	80.2
10/09/2006	23:45:00	14.7	279	8.21	6.88	81.1
10/10/2006	0:00:00	14.8	287	8.18	6.84	80.7
10/10/2006	0:15:00	14.9	293	8.16	6.77	80.1
10/10/2006	0:30:00	15.0	300	8.14	6.77	80.2
10/10/2006	0:45:00	15.1	301	8.12	6.74	80.0
10/10/2006	1:00:00	15.1	302	8.11	6.69	79.6
10/10/2006	1:15:00	15.2	306	8.10	6.64	79.0
10/10/2006	1:30:00	15.2	313	8.08	6.62	78.8
10/10/2006	1:45:00	15.2	315	8.07	6.60	78.7
10/10/2006	2:00:00	15.2	319	8.06	6.66	79.3
10/10/2006	2:15:00	15.1	325	8.05	6.67	79.4
10/10/2006	2:30:00	15.0	325	8.05	6.77	80.2
10/10/2006	2:45:00	14.7	325	8.06	6.82	80.4
10/10/2006	3:00:00	14.6	337	8.04	6.79	79.9
10/10/2006	3:15:00	14.6	340	8.03	6.72	79.0
10/10/2006	3:30:00	14.7	348	8.01	6.59	77.6
10/10/2006	3:45:00	14.7	342	8.00	6.47	76.3
10/10/2006	4:00:00	14.7	337	7.99	6.52	76.9
10/10/2006	4:15:00	14.7	333	7.98	6.54	77.0
10/10/2006	4:30:00	14.6	328	7.98	6.48	76.3
10/10/2006	4:45:00	14.6	325	7.97	6.52	76.7
10/10/2006	5:00:00	14.6	323	7.97	6.46	76.0
10/10/2006	5:15:00	14.6	321	7.96	6.49	76.3
10/10/2006	5:30:00	14.5	318	7.96	6.45	75.8
10/10/2006	5:45:00	14.5	313	7.96	6.42	75.3
10/10/2006	6:00:00	14.5	311	7.96	6.44	75.5
10/10/2006	6:15:00	14.4	310	7.96	6.45	75.5

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/10/2006	6:30:00	14.3	301	7.97	6.39	74.7
10/10/2006	6:45:00	14.2	283	7.99	6.34	73.9
10/10/2006	7:00:00	14.1	265	8.01	6.23	72.5
10/10/2006	7:15:00	14.1	256	8.02	6.15	71.6
10/10/2006	7:30:00	14.0	243	8.05	6.09	70.7
10/10/2006	7:45:00	13.9	232	8.08	6.15	71.2
10/10/2006	8:00:00	13.8	224	8.10	6.12	70.8
10/10/2006	8:15:00	13.8	216	8.16	6.21	71.6
10/10/2006	8:30:00	13.7	199	8.18	6.21	71.6
10/10/2006	8:45:00	13.6	189	8.19	6.24	71.9
10/10/2006	9:00:00	13.6	187	8.19	6.24	71.8
10/10/2006	9:15:00	13.6	187	8.19	6.30	72.5
10/10/2006	9:30:00	13.6	188	8.19	6.35	73.0
10/10/2006	9:45:00	13.6	184	8.18	6.36	73.2
10/10/2006	10:00:00	13.7	183	8.17	6.39	73.6
10/10/2006	10:15:00	13.8	194	8.16	6.41	73.9
10/10/2006	10:30:00	14.0	199	8.15	6.44	74.7
10/10/2006	10:45:00	14.0	199	8.15	6.44	74.8
10/10/2006	11:00:00	14.1	200	8.16	6.49	75.5
10/10/2006	11:15:00	14.2	188	8.16	6.50	75.6
10/10/2006	11:30:00	14.3	187	8.16	6.48	75.6
10/10/2006	11:45:00	14.4	189	8.15	6.49	76.0
10/10/2006	12:00:00	14.7	197	8.13	6.46	76.2
10/10/2006	12:15:00	15.0	209	8.11	6.46	76.5
10/10/2006	12:30:00	15.1	210	8.09	6.44	76.5
10/10/2006	12:45:00	15.3	231	8.06	6.44	76.9
10/10/2006	13:00:00	15.5	262	8.05	6.43	77.0
10/10/2006	13:15:00	15.7	278	8.04	6.33	76.2
10/10/2006	13:30:00	15.8	307	8.03	6.32	76.4
10/10/2006	13:45:00	16.0	278	8.02	6.28	76.1
10/10/2006	14:00:00	16.1	292	8.01	6.23	75.6
10/10/2006	14:15:00	16.2	259	8.01	6.27	76.3
10/10/2006	14:30:00	16.3	282	8.00	6.26	76.4
10/10/2006	14:45:00	16.3	315	7.99	6.20	75.7
10/10/2006	15:00:00	16.4	314	7.98	6.16	75.3
10/10/2006	15:15:00	16.4	328	7.97	6.13	75.0
10/10/2006	15:30:00	16.5	323	7.96	6.16	75.4
10/10/2006	15:45:00	16.5	349	7.95	6.15	75.2
10/10/2006	16:00:00	16.4	348	7.94	6.12	74.9
10/10/2006	16:15:00	16.4	360	7.94	6.08	74.3
10/10/2006	16:30:00	16.4	375	7.93	6.08	74.3
10/10/2006	16:45:00	16.3	463	7.93	6.07	74.0
10/10/2006	17:00:00	16.2	537	7.93	6.11	74.5
10/10/2006	17:15:00	16.1	563	7.92	6.13	74.5
10/10/2006	17:30:00	16.0	584	7.92	6.08	73.7
10/10/2006	17:45:00	15.9	603	7.92	6.08	73.6

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/10/2006	18:00:00	15.8	637	7.91	6.10	73.7
10/10/2006	18:15:00	15.6	669	7.91	6.03	72.7
10/10/2006	18:30:00	15.6	696	7.91	6.08	73.1
10/10/2006	18:45:00	15.5	725	7.90	6.05	72.7
10/10/2006	19:00:00	15.4	640	7.90	6.10	73.1
10/10/2006	19:15:00	15.4	570	7.89	6.07	72.7
10/10/2006	19:30:00	15.3	681	7.89	6.11	73.2
10/10/2006	19:45:00	15.3	828	7.89	6.24	74.7
10/10/2006	20:00:00	15.2	844	7.89	6.23	74.3
10/10/2006	20:15:00	15.2	855	7.88	6.19	73.8
10/10/2006	20:30:00	15.2	876	7.88	6.23	74.3
10/10/2006	20:45:00	15.2	714	7.88	6.18	73.7
10/10/2006	21:00:00	15.1	781	7.88	6.25	74.5
10/10/2006	21:15:00	15.1	923	7.88	6.24	74.4
10/10/2006	21:30:00	15.1	903	7.88	6.24	74.3
10/10/2006	21:45:00	15.1	768	7.88	6.18	73.5
10/10/2006	22:00:00	15.0	925	7.88	6.27	74.6
10/10/2006	22:15:00	15.0	947	7.87	6.35	75.4
10/10/2006	22:30:00	14.9	958	7.87	6.38	75.8
10/10/2006	22:45:00	14.9	963	7.88	6.41	75.9
10/10/2006	23:00:00	14.8	972	7.88	6.41	75.9
10/10/2006	23:15:00	14.7	969	7.88	6.49	76.7
10/10/2006	23:30:00	14.6	971	7.88	6.56	77.3
10/10/2006	23:45:00	14.6	972	7.88	6.53	76.9
10/11/2006	0:00:00	14.5	971	7.88	6.58	77.4
10/11/2006	0:15:00	14.4	974	7.88	6.60	77.5
10/11/2006	0:30:00	14.4	974	7.88	6.65	78.0
10/11/2006	0:45:00	14.3	934	7.88	6.64	77.8
10/11/2006	1:00:00	14.2	721	7.88	6.64	77.5
10/11/2006	1:15:00	14.2	949	7.88	6.68	78.0
10/11/2006	1:30:00	14.1	816	7.88	6.72	78.3
10/11/2006	1:45:00	14.0	777	7.88	6.74	78.4
10/11/2006	2:00:00	14.0	711	7.88	6.73	78.2
10/11/2006	2:15:00	13.9	669	7.88	6.72	78.0
10/11/2006	2:30:00	13.9	681	7.88	6.78	78.5
10/11/2006	2:45:00	13.8	674	7.88	6.72	77.8
10/11/2006	3:00:00	13.8	719	7.88	6.69	77.4
10/11/2006	3:15:00	13.7	707	7.88	6.83	78.8
10/11/2006	3:30:00	13.6	707	7.88	6.81	78.5
10/11/2006	3:45:00	13.6	708	7.88	6.83	78.7
10/11/2006	4:00:00	13.5	708	7.88	6.84	78.6
10/11/2006	4:15:00	13.4	708	7.88	6.84	78.6
10/11/2006	4:30:00	13.4	706	7.88	6.83	78.2
10/11/2006	4:45:00	13.3	706	7.88	6.90	79.0
10/11/2006	5:00:00	13.2	705	7.88	6.98	79.7
10/11/2006	5:15:00	13.1	705	7.88	5.20	59.3

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/11/2006	5:30:00	13.0	704	7.88	4.87	55.4
10/11/2006	5:45:00	12.9	702	7.88	5.08	57.6
10/11/2006	6:00:00	12.8	700	7.88	4.99	56.5
10/11/2006	6:15:00	12.8	699	7.88	4.79	54.2
10/11/2006	6:30:00	12.7	690	7.89	4.78	54.0
10/11/2006	6:45:00	12.6	688	7.89	3.81	43.0
10/11/2006	7:00:00	12.5	687	7.89	2.96*	33.3
10/11/2006	7:15:00	12.4	686	7.89	2.55	28.7
10/11/2006	7:30:00	12.4	686	7.89	2.21	24.4
10/11/2006	7:45:00	12.4	685	7.88	1.92	21.5
10/11/2006	8:00:00	12.4	684	7.87	1.65	18.5
10/11/2006	8:15:00	12.4	683	7.87	1.42	15.9
10/11/2006	8:30:00	12.4	683	7.87	1.22	13.7
10/11/2006	8:45:00	12.5	682	7.87	1.05	11.8
10/11/2006	9:00:00	12.5	682	7.88	0.89	10.0
10/11/2006	9:15:00	12.6	682	7.88	0.74	8.2
10/11/2006	9:30:00	12.7	681	7.88	0.59	6.7
10/11/2006	9:45:00	12.7	682	7.87	0.47	5.3
10/11/2006	10:00:00	12.8	682	7.87	0.37	4.2
10/11/2006	10:15:00	12.9	682	7.87	0.29	3.3
10/11/2006	10:30:00	13.0	681	7.86	0.24	2.7
10/11/2006	10:45:00	13.1	682	7.86	0.20	2.3
10/11/2006	11:00:00	13.2	684	7.85	0.17	1.9
10/11/2006	11:15:00	13.3	684	7.85	0.14	1.6
10/11/2006	11:30:00	13.4	684	7.85	0.13	1.5
10/11/2006	11:45:00	13.5	684	7.84	0.13	1.5
10/11/2006	12:00:00	13.7	685	7.84	0.11	1.2
10/11/2006	12:15:00	13.8	685	7.83	0.11	1.2
10/11/2006	12:30:00	13.9	687	7.83	0.12	1.3
10/11/2006	12:45:00	14.0	687	7.82	0.12	1.3
10/11/2006	13:00:00	14.1	687	7.82	0.10	1.2
10/11/2006	13:15:00	14.2	687	7.81	0.12	1.3
10/11/2006	13:30:00	14.3	688	7.81	0.11	1.3
10/11/2006	13:45:00	14.3	688	7.80	0.10	1.2
10/11/2006	14:00:00	14.4	689	7.80	0.10	1.2
10/11/2006	14:15:00	14.5	689	7.79	0.10	1.2
10/11/2006	14:30:00	14.6	690	7.79	0.09	1.1
10/11/2006	14:45:00	14.6	690	7.78	0.10	1.2
10/11/2006	15:00:00	14.7	691	7.78	0.10	1.2
10/11/2006	15:15:00	14.8	691	7.78	0.09	1.1
10/11/2006	15:30:00	14.8	691	7.77	0.10	1.2
10/11/2006	15:45:00	14.9	691	7.77	0.10	1.2
10/11/2006	16:00:00	14.9	692	7.77	0.10	1.2
10/11/2006	16:15:00	15.0	692	7.77	0.09	1.1
10/11/2006	16:30:00	15.0	692	7.77	0.09	1.1
10/11/2006	16:45:00	15.0	692	7.77	0.09	1.1

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/11/2006	17:00:00	15.1	692	7.77	0.09	1.1
10/11/2006	17:15:00	15.1	692	7.77	0.09	1.1
10/11/2006	17:30:00	15.1	692	7.77	0.09	1.3
10/11/2006	17:45:00	15.2	692	7.77	0.09	1.1
10/11/2006	18:00:00	15.2	693	7.77	0.09	1.1
10/11/2006	18:15:00	15.2	693	7.77	0.10	1.2
10/11/2006	18:30:00	15.3	692	7.77	0.09	1.1
10/11/2006	18:45:00	15.3	692	7.77	0.09	1.1
10/11/2006	19:00:00	15.3	692	7.78	0.09	1.1
10/11/2006	19:15:00	15.3	692	7.78	0.09	1.1
10/11/2006	19:30:00	15.4	692	7.78	0.10	1.2
10/11/2006	19:45:00	15.4	692	7.78	0.09	1.1
10/11/2006	20:00:00	15.4	692	7.78	0.10	1.2
10/11/2006	20:15:00	15.5	692	7.78	0.09	1.1
10/11/2006	20:30:00	15.5	692	7.78	0.09	1.1
10/11/2006	20:45:00	15.5	692	7.79	0.09	1.1
10/11/2006	21:00:00	15.5	692	7.79	0.08	0.9
10/11/2006	21:15:00	15.6	691	7.79	0.09	1.1
10/11/2006	21:30:00	15.6	691	7.79	0.09	1.1
10/11/2006	21:45:00	15.6	691	7.79	0.09	1.1
10/11/2006	22:00:00	15.6	691	7.79	0.09	1.1
10/11/2006	22:15:00	15.6	691	7.79	0.10	1.2
10/11/2006	22:30:00	15.7	690	7.80	0.09	1.1
10/11/2006	22:45:00	15.7	690	7.80	0.09	1.1
10/11/2006	23:00:00	15.7	690	7.80	0.09	1.1
10/11/2006	23:15:00	15.7	690	7.80	0.08	0.9
10/11/2006	23:30:00	15.7	689	7.80	0.09	1.1
10/11/2006	23:45:00	15.8	689	7.80	0.09	1.1
10/12/2006	0:00:00	15.8	689	7.80	0.09	1.1
10/12/2006	0:15:00	15.8	688	7.80	0.08	0.9
10/12/2006	0:30:00	15.8	688	7.81	0.09	1.1
10/12/2006	0:45:00	15.8	688	7.81	0.09	1.1
10/12/2006	1:00:00	15.8	687	7.81	0.09	1.1
10/12/2006	1:15:00	15.8	687	7.81	0.08	0.9
10/12/2006	1:30:00	15.9	686	7.81	0.09	1.1
10/12/2006	1:45:00	15.9	686	7.81	0.09	1.1
10/12/2006	2:00:00	15.9	686	7.81	0.09	1.1
10/12/2006	2:15:00	15.9	685	7.82	0.08	0.9
10/12/2006	2:30:00	15.9	685	7.82	0.09	1.1
10/12/2006	2:45:00	15.9	685	7.82	0.09	1.1
10/12/2006	3:00:00	15.9	684	7.82	0.09	1.1
10/12/2006	3:15:00	15.9	684	7.82	0.09	1.1
10/12/2006	3:30:00	15.9	683	7.83	0.09	1.1
10/12/2006	3:45:00	15.9	683	7.82	0.09	1.1
10/12/2006	4:00:00	15.9	683	7.83	0.09	1.1
10/12/2006	4:15:00	15.9	682	7.83	0.09	1.1

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/12/2006	4:30:00	15.9	682	7.83	0.07	0.8
10/12/2006	4:45:00	16.0	682	7.83	0.08	0.9
10/12/2006	5:00:00	16.0	681	7.83	0.08	0.9
10/12/2006	5:15:00	16.0	681	7.83	0.09	1.1
10/12/2006	5:30:00	16.0	680	7.83	0.09	1.1
10/12/2006	5:45:00	16.0	680	7.83	0.08	0.9
10/12/2006	6:00:00	16.0	679	7.83	0.08	0.9
10/12/2006	6:15:00	16.0	679	7.84	0.09	1.1
10/12/2006	6:30:00	16.0	679	7.84	0.08	0.9
10/12/2006	6:45:00	16.0	678	7.84	0.08	0.9
10/12/2006	7:00:00	16.0	678	7.84	0.08	0.9
10/12/2006	7:15:00	16.0	677	7.84	0.08	0.9
10/12/2006	7:30:00	16.0	677	7.84	0.08	0.9
10/12/2006	7:45:00	15.9	676	7.84	0.09	1.1
10/12/2006	8:00:00	15.9	675	7.84	0.08	0.9
10/12/2006	8:15:00	15.9	675	7.84	0.08	0.9
10/12/2006	8:30:00	15.9	674	7.84	0.08	0.9
10/12/2006	8:45:00	15.9	674	7.84	0.08	0.9
10/12/2006	9:00:00	15.9	674	7.84	0.09	1.1
10/12/2006	9:15:00	15.9	673	7.85	0.09	1.1
10/12/2006	9:30:00	15.9	673	7.84	0.08	0.9
10/12/2006	9:45:00	15.9	672	7.84	0.08	0.9
10/12/2006	10:00:00	15.9	672	7.85	0.09	1.1
10/12/2006	10:15:00	15.9	671	7.85	0.08	0.9
10/12/2006	10:30:00	15.9	671	7.85	0.08	0.9
10/12/2006	10:45:00	15.9	670	7.85	0.08	0.9
10/12/2006	11:00:00	15.9	670	7.85	0.08	0.9
10/12/2006	11:15:00	15.8	669	7.85	0.08	0.9
10/12/2006	11:30:00	15.8	669	7.85	0.10	1.2
10/12/2006	11:45:00	15.8	668	7.85	0.08	0.9
10/12/2006	12:00:00	15.8	668	7.85	0.08	0.9
10/12/2006	12:15:00	15.8	667	7.85	0.09	1.1
10/12/2006	12:30:00	15.8	667	7.85	0.08	0.9
10/12/2006	12:45:00	15.8	667	7.85	0.07	0.8
10/12/2006	13:00:00	15.8	666	7.85	0.08	0.9
10/12/2006	13:15:00	15.8	666	7.85	0.08	0.9
10/12/2006	13:30:00	15.8	665	7.85	0.08	0.9
10/12/2006	13:45:00	15.8	665	7.85	0.08	0.9
10/12/2006	14:00:00	15.8	665	7.85	0.09	1.1
10/12/2006	14:15:00	15.7	664	7.85	0.09	1.1
10/12/2006	14:30:00	15.7	664	7.85	0.08	0.9
10/12/2006	14:45:00	15.7	664	7.85	0.09	1.1
10/12/2006	15:00:00	15.7	664	7.85	0.09	1.1
10/12/2006	15:15:00	15.7	663	7.85	0.09	1.1
10/12/2006	15:30:00	15.7	663	7.85	0.09	1.1
10/12/2006	15:45:00	15.7	663	7.85	0.09	1.1

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/12/2006	16:00:00	15.7	663	7.85	0.08	0.9
10/12/2006	16:15:00	15.7	663	7.85	0.08	0.9
10/12/2006	16:30:00	15.8	663	7.85	0.09	1.1
10/12/2006	16:45:00	15.8	663	7.85	0.08	0.9
10/12/2006	17:00:00	15.8	663	7.85	0.09	1.1
10/12/2006	17:15:00	15.8	663	7.85	0.09	1.1
10/12/2006	17:30:00	15.8	663	7.85	0.09	1.1
10/12/2006	17:45:00	15.8	664	7.85	0.08	0.9
10/12/2006	18:00:00	15.8	664	7.85	0.09	1.1
10/12/2006	18:15:00	15.9	664	7.85	0.09	1.1
10/12/2006	18:30:00	15.9	664	7.85	0.09	1.1
10/12/2006	18:45:00	15.9	665	7.85	0.09	1.1
10/12/2006	19:00:00	15.9	665	7.85	0.09	1.1
10/12/2006	19:15:00	15.9	665	7.85	0.08	0.9
10/12/2006	19:30:00	16.0	665	7.85	0.09	1.1
10/12/2006	19:45:00	16.0	665	7.85	0.08	0.9
10/12/2006	20:00:00	16.0	665	7.85	0.08	0.9
10/12/2006	20:15:00	16.0	665	7.85	0.09	1.1
10/12/2006	20:30:00	16.1	666	7.84	0.09	1.1
10/12/2006	20:45:00	16.1	666	7.84	0.08	0.9
10/12/2006	21:00:00	16.1	666	7.84	0.09	1.1
10/12/2006	21:15:00	16.1	666	7.84	0.09	1.1
10/12/2006	21:30:00	16.2	667	7.84	0.08	0.9
10/12/2006	21:45:00	16.2	667	7.84	0.09	1.1
10/12/2006	22:00:00	16.2	667	7.84	0.08	0.9
10/12/2006	22:15:00	16.2	667	7.84	0.09	1.1
10/12/2006	22:30:00	16.3	667	7.84	0.09	1.1
10/12/2006	22:45:00	16.3	668	7.84	0.09	1.1
10/12/2006	23:00:00	16.3	668	7.84	0.08	0.9
10/12/2006	23:15:00	16.3	668	7.84	0.09	1.1
10/12/2006	23:30:00	16.3	669	7.84	0.10	1.2
10/12/2006	23:45:00	16.3	669	7.83	0.09	1.0
10/13/2006	0:00:00	16.4	670	7.83	0.09	1.0
10/13/2006	0:15:00	16.4	670	7.83	0.10	1.2
10/13/2006	0:30:00	16.4	670	7.83	0.09	1.0
10/13/2006	0:45:00	16.4	671	7.83	0.09	1.0
10/13/2006	1:00:00	16.4	673	7.83	0.10	1.2
10/13/2006	1:15:00	16.4	675	7.83	0.09	1.0
10/13/2006	1:30:00	16.4	676	7.83	0.09	1.0
10/13/2006	1:45:00	16.5	677	7.82	0.09	1.0
10/13/2006	2:00:00	16.5	679	7.82	0.09	1.0
10/13/2006	2:15:00	16.5	680	7.82	0.09	1.0
10/13/2006	2:30:00	16.5	681	7.82	0.07	0.9
10/13/2006	2:45:00	16.5	682	7.81	0.09	1.0
10/13/2006	3:00:00	16.5	683	7.81	0.09	1.0
10/13/2006	3:15:00	16.5	684	7.81	0.09	1.0

Table 5.12. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico in October 2006. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/13/2006	3:30:00	16.5	685	7.81	0.07	0.9
10/13/2006	3:45:00	16.5	685	7.81	0.09	1.0
10/13/2006	4:00:00	16.5	686	7.81	0.09	1.0
10/13/2006	4:15:00	16.5	686	7.81	0.09	1.0
10/13/2006	4:30:00	16.5	686	7.81	0.07	0.9
10/13/2006	4:45:00	16.5	687	7.81	0.09	1.0
10/13/2006	5:00:00	16.5	687	7.81	0.09	1.0
10/13/2006	5:15:00	16.5	687	7.81	0.09	1.0
10/13/2006	5:30:00	16.5	688	7.81	0.07	0.9
10/13/2006	5:45:00	16.5	688	7.81	0.09	1.0
10/13/2006	6:00:00	16.5	689	7.80	0.09	1.0
10/13/2006	6:15:00	16.5	691	7.80	0.09	1.0
10/13/2006	6:30:00	16.5	692	7.80	0.07	0.9
10/13/2006	6:45:00	16.5	693	7.80	0.09	1.0
10/13/2006	7:00:00	16.5	694	7.80	0.07	0.9
10/13/2006	7:15:00	16.5	694	7.79	0.09	1.0
10/13/2006	7:30:00	16.5	695	7.79	0.09	1.0
10/13/2006	7:45:00	16.5	696	7.79	0.07	0.9
10/13/2006	8:00:00	16.5	696	7.79	0.09	1.0
10/13/2006	8:15:00	16.4	697	7.79	0.09	1.0
10/13/2006	8:30:00	16.4	698	7.79	0.09	1.0
10/13/2006	8:45:00	16.4	698	7.79	0.09	1.0
10/13/2006	9:00:00	16.4	699	7.79	0.09	1.0
10/13/2006	9:15:00	16.4	699	7.78	0.08	0.9
10/13/2006	9:30:00	16.4	700	7.78	0.09	1.0
10/13/2006	9:45:00	16.3	700	7.78	0.08	0.9
10/13/2006	10:00:00	16.3	701	7.78	0.08	0.9

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	**Troll 9000 LTS**		
Report generated:	**7/31/2007**	**11:24:25**	
Report from file:	**...\SN45476 2006-10-13 150000 s3Padillas10_13_.bin**		
Win-Situ Version	**4.55.3.0**		
Serial number:	**45476**		
Firmware Version	**1.58**		
Unit name:	**Apollo**		
Barometric Pressure:	**636.551**		
Test defined on:	**10/13/2006**	**13:33:31**	
Test scheduled for:	**10/13/2006**	**15:00:00**	
Test started on:	**10/13/2006**	**15:00:00**	
Test stopped on:	**10/20/2006**	**9:00:00**	
Data gathered using linear testing			
Time between data points	900	seconds	
Number of data samples:	648		

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/13/2006	15:00:00	17.7	8.00	100.5
10/13/2006	15:15:00	17.8	7.97	100.5
10/13/2006	15:30:00	17.9	7.94	100.4
10/13/2006	15:45:00	18.0	7.92	100.3
10/13/2006	16:00:00	18.1	7.90	100.2
10/13/2006	16:15:00	18.2	7.87	100.1
10/13/2006	16:30:00	18.2	7.85	99.9
10/13/2006	16:45:00	18.3	7.83	99.7
10/13/2006	17:00:00	18.3	7.82	99.5
10/13/2006	17:15:00	18.3	7.80	99.3
10/13/2006	17:30:00	18.2	7.79	99.1
10/13/2006	17:45:00	18.2	7.79	98.9
10/13/2006	18:00:00	18.1	7.78	98.7
10/13/2006	18:15:00	18.1	7.77	98.5
10/13/2006	18:30:00	18.0	7.75	98.2
10/13/2006	18:45:00	18.0	7.74	98.0
10/13/2006	19:00:00	17.9	7.73	97.7
10/13/2006	19:15:00	17.9	7.72	97.4
10/13/2006	19:30:00	17.8	7.72	97.3
10/13/2006	19:45:00	17.8	7.71	97.1
10/13/2006	20:00:00	17.7	7.70	97.0
10/13/2006	20:15:00	17.7	7.69	96.8
10/13/2006	20:30:00	17.6	7.69	96.6
10/13/2006	20:45:00	17.6	7.69	96.5
10/13/2006	21:00:00	17.5	7.68	96.3
10/13/2006	21:15:00	17.5	7.68	96.1
10/13/2006	21:30:00	17.4	7.68	96.0
10/13/2006	21:45:00	17.3	7.69	95.9

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/13/2006	22:00:00	17.3	7.69	95.9
10/13/2006	22:15:00	17.2	7.69	95.8
10/13/2006	22:30:00	17.2	7.69	95.6
10/13/2006	22:45:00	17.1	7.70	95.6
10/13/2006	23:00:00	17.0	7.70	95.6
10/13/2006	23:15:00	17.0	7.70	95.3
10/13/2006	23:30:00	16.9	7.71	95.3
10/13/2006	23:45:00	16.8	7.72	95.3
10/14/2006	0:00:00	16.8	7.71	95.1
10/14/2006	0:15:00	16.7	7.72	95.1
10/14/2006	0:30:00	16.7	7.73	95.1
10/14/2006	0:45:00	16.6	7.73	95.0
10/14/2006	1:00:00	16.6	7.73	95.0
10/14/2006	1:15:00	16.5	7.74	95.0
10/14/2006	1:30:00	16.5	7.74	94.9
10/14/2006	1:45:00	16.4	7.75	94.8
10/14/2006	2:00:00	16.3	7.77	94.9
10/14/2006	2:15:00	16.3	7.78	95.0
10/14/2006	2:30:00	16.2	7.80	95.0
10/14/2006	2:45:00	16.1	7.81	95.0
10/14/2006	3:00:00	16.0	7.83	95.1
10/14/2006	3:15:00	15.9	7.84	95.1
10/14/2006	3:30:00	15.9	7.85	95.0
10/14/2006	3:45:00	15.8	7.87	95.1
10/14/2006	4:00:00	15.7	7.89	95.1
10/14/2006	4:15:00	15.6	7.92	95.4
10/14/2006	4:30:00	15.6	7.93	95.3
10/14/2006	4:45:00	15.5	7.94	95.3
10/14/2006	5:00:00	15.4	7.96	95.3
10/14/2006	5:15:00	15.3	7.97	95.3
10/14/2006	5:30:00	15.2	8.00	95.5
10/14/2006	5:45:00	15.1	8.03	95.6
10/14/2006	6:00:00	15.0	8.04	95.6
10/14/2006	6:15:00	15.0	8.06	95.7
10/14/2006	6:30:00	14.9	8.08	95.8
10/14/2006	6:45:00	14.8	8.10	95.8
10/14/2006	7:00:00	14.7	8.12	95.9
10/14/2006	7:15:00	14.7	8.14	96.0
10/14/2006	7:30:00	14.6	8.15	96.1
10/14/2006	7:45:00	14.6	8.17	96.1
10/14/2006	8:00:00	14.5	8.18	96.2
10/14/2006	8:15:00	14.5	8.20	96.3
10/14/2006	8:30:00	14.4	8.22	96.3
10/14/2006	8:45:00	14.4	8.23	96.5
10/14/2006	9:00:00	14.4	8.24	96.5
10/14/2006	9:15:00	14.4	8.25	96.6

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/14/2006	9:30:00	14.4	8.26	96.8
10/14/2006	9:45:00	14.4	8.26	96.8
10/14/2006	10:00:00	14.4	8.27	97.0
10/14/2006	10:15:00	14.5	8.28	97.2
10/14/2006	10:30:00	14.6	8.28	97.5
10/14/2006	10:45:00	14.6	8.29	97.6
10/14/2006	11:00:00	14.7	8.29	97.8
10/14/2006	11:15:00	14.7	8.29	97.9
10/14/2006	11:30:00	14.8	8.29	98.0
10/14/2006	11:45:00	14.8	8.30	98.2
10/14/2006	12:00:00	15.0	8.30	98.5
10/14/2006	12:15:00	15.1	8.29	98.7
10/14/2006	12:30:00	15.4	8.29	99.4
10/14/2006	12:45:00	15.5	8.27	99.2
10/14/2006	13:00:00	15.6	8.26	99.4
10/14/2006	13:15:00	15.7	8.24	99.4
10/14/2006	13:30:00	15.8	8.23	99.4
10/14/2006	13:45:00	15.9	8.21	99.4
10/14/2006	14:00:00	15.9	8.20	99.3
10/14/2006	14:15:00	16.1	8.19	99.7
10/14/2006	14:30:00	16.3	8.16	99.7
10/14/2006	14:45:00	16.3	8.13	99.3
10/14/2006	15:00:00	16.3	8.12	99.1
10/14/2006	15:15:00	16.3	8.11	99.0
10/14/2006	15:30:00	16.4	8.10	99.1
10/14/2006	15:45:00	16.5	8.07	99.0
10/14/2006	16:00:00	16.5	8.06	98.9
10/14/2006	16:15:00	16.5	8.04	98.7
10/14/2006	16:30:00	16.6	8.03	98.6
10/14/2006	16:45:00	16.6	8.02	98.5
10/14/2006	17:00:00	16.7	8.00	98.5
10/14/2006	17:15:00	16.7	7.98	98.3
10/14/2006	17:30:00	16.7	7.98	98.2
10/14/2006	17:45:00	16.6	7.96	97.9
10/14/2006	18:00:00	16.6	7.96	97.8
10/14/2006	18:15:00	16.5	7.96	97.8
10/14/2006	18:30:00	16.5	7.95	97.5
10/14/2006	18:45:00	16.4	7.95	97.4
10/14/2006	19:00:00	16.4	7.95	97.3
10/14/2006	19:15:00	16.4	7.95	97.2
10/14/2006	19:30:00	16.3	7.94	97.1
10/14/2006	19:45:00	16.3	7.93	97.0
10/14/2006	20:00:00	16.3	7.93	96.9
10/14/2006	20:15:00	16.3	7.92	96.8
10/14/2006	20:30:00	16.3	7.91	96.7
10/14/2006	20:45:00	16.3	7.91	96.6

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/14/2006	21:00:00	16.3	7.91	96.6
10/14/2006	21:15:00	16.3	7.90	96.4
10/14/2006	21:30:00	16.2	7.90	96.4
10/14/2006	21:45:00	16.2	7.90	96.3
10/14/2006	22:00:00	16.2	7.90	96.3
10/14/2006	22:15:00	16.2	7.90	96.2
10/14/2006	22:30:00	16.2	7.90	96.2
10/14/2006	22:45:00	16.2	7.90	96.2
10/14/2006	23:00:00	16.1	7.90	96.2
10/14/2006	23:15:00	16.1	7.90	96.2
10/14/2006	23:30:00	16.1	7.91	96.2
10/14/2006	23:45:00	16.1	7.91	96.2
10/15/2006	0:00:00	16.1	7.91	96.1
10/15/2006	0:15:00	16.1	7.92	96.2
10/15/2006	0:30:00	16.0	7.92	96.2
10/15/2006	0:45:00	16.0	7.93	96.2
10/15/2006	1:00:00	16.0	7.93	96.2
10/15/2006	1:15:00	16.0	7.93	96.2
10/15/2006	1:30:00	16.0	7.94	96.2
10/15/2006	1:45:00	15.9	7.94	96.2
10/15/2006	2:00:00	15.9	7.93	96.2
10/15/2006	2:15:00	15.9	7.94	96.3
10/15/2006	2:30:00	15.9	7.95	96.3
10/15/2006	2:45:00	15.9	7.95	96.2
10/15/2006	3:00:00	15.8	7.96	96.3
10/15/2006	3:15:00	15.8	7.96	96.3
10/15/2006	3:30:00	15.8	7.97	96.3
10/15/2006	3:45:00	15.8	7.97	96.3
10/15/2006	4:00:00	15.7	7.97	96.1
10/15/2006	4:15:00	15.7	7.99	96.3
10/15/2006	4:30:00	15.6	8.00	96.3
10/15/2006	4:45:00	15.6	7.98	95.9
10/15/2006	5:00:00	15.5	7.94	95.4
10/15/2006	5:15:00	15.5	7.76	93.1
10/15/2006	5:30:00	15.4	7.56	90.6
10/15/2006	5:45:00	15.4	7.47	89.5
10/15/2006	6:00:00	15.4	7.45	89.2
10/15/2006	6:15:00	15.3	7.36	88.0
10/15/2006	6:30:00	15.2	7.17	85.6
10/15/2006	6:45:00	15.2	6.98	83.2
10/15/2006	7:00:00	15.1	6.79	80.8
10/15/2006	7:15:00	15.0	6.58	78.2
10/15/2006	7:30:00	14.9	6.34	75.2
10/15/2006	7:45:00	14.9	6.11	72.3
10/15/2006	8:00:00	14.8	5.88	69.5
10/15/2006	8:15:00	14.8	5.67	67.0

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/15/2006	8:30:00	14.8	5.49	65.0
10/15/2006	8:45:00	14.8	5.34	63.2
10/15/2006	9:00:00	14.9	5.21	61.7
10/15/2006	9:15:00	14.9	5.09	60.4
10/15/2006	9:30:00	15.0	6.70	79.7
10/15/2006	9:45:00	15.1	6.57	78.2
10/15/2006	10:00:00	15.3	6.28	75.0
10/15/2006	10:15:00	15.4	5.94	71.2
10/15/2006	10:30:00	15.5	5.58	67.1
10/15/2006	10:45:00	15.7	5.23	63.0
10/15/2006	11:00:00	15.8	4.88	59.0
10/15/2006	11:15:00	16.0	4.56	55.4
10/15/2006	11:30:00	16.2	4.28	52.1
10/15/2006	11:45:00	16.2	4.03*	49.2
10/15/2006	12:00:00	16.2	3.83	46.7
10/15/2006	12:15:00	16.2	3.68	44.8
10/15/2006	12:30:00	16.2	3.56	43.4
10/15/2006	12:45:00	16.4	3.44	42.1
10/15/2006	13:00:00	16.6	3.32	40.8
10/15/2006	13:15:00	16.6	3.21	39.5
10/15/2006	13:30:00	16.6	3.16	38.9
10/15/2006	13:45:00	16.6	3.32	40.8
10/15/2006	14:00:00	16.6	3.41	41.9
10/15/2006	14:15:00	16.5	3.37	41.4
10/15/2006	14:30:00	16.5	3.26	40.0
10/15/2006	14:45:00	16.5	3.11	38.1
10/15/2006	15:00:00	16.5	2.95	36.1
10/15/2006	15:15:00	16.5	2.78	34.1
10/15/2006	15:30:00	16.5	2.61	32.0
10/15/2006	15:45:00	16.5	2.44	29.9
10/15/2006	16:00:00	16.7	2.26	27.9
10/15/2006	16:15:00	16.8	2.08	25.7
10/15/2006	16:30:00	16.9	1.91	23.7
10/15/2006	16:45:00	16.9	1.76	21.7
10/15/2006	17:00:00	17.0	1.61	19.9
10/15/2006	17:15:00	17.0	1.47	18.2
10/15/2006	17:30:00	16.9	1.34	16.6
10/15/2006	17:45:00	16.8	1.22	15.1
10/15/2006	18:00:00	16.8	1.12	13.8
10/15/2006	18:15:00	16.8	1.02	12.6
10/15/2006	18:30:00	16.7	0.93	11.5
10/15/2006	18:45:00	16.7	0.85	10.5
10/15/2006	19:00:00	16.6	0.78	9.6
10/15/2006	19:15:00	16.6	0.72	8.8
10/15/2006	19:30:00	16.5	0.67	8.2
10/15/2006	19:45:00	16.5	0.62	7.5

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/15/2006	20:00:00	16.4	0.57	7.0
10/15/2006	20:15:00	16.4	0.53	6.5
10/15/2006	20:30:00	16.4	0.49	6.0
10/15/2006	20:45:00	16.4	0.46	5.6
10/15/2006	21:00:00	16.3	0.43	5.2
10/15/2006	21:15:00	16.3	0.40	4.9
10/15/2006	21:30:00	16.3	0.37	4.6
10/15/2006	21:45:00	16.3	0.35	4.3
10/15/2006	22:00:00	16.3	0.33	4.1
10/15/2006	22:15:00	16.3	0.31	3.8
10/15/2006	22:30:00	16.3	0.30	3.7
10/15/2006	22:45:00	16.3	0.29	3.5
10/15/2006	23:00:00	16.3	0.28	3.4
10/15/2006	23:15:00	16.2	0.27	3.2
10/15/2006	23:30:00	16.2	0.26	3.1
10/15/2006	23:45:00	16.2	0.25	3.0
10/16/2006	0:00:00	16.2	0.24	3.0
10/16/2006	0:15:00	16.1	0.24	2.9
10/16/2006	0:30:00	16.1	0.22	2.7
10/16/2006	0:45:00	16.1	0.20	2.4
10/16/2006	1:00:00	16.1	0.18	2.2
10/16/2006	1:15:00	16.0	0.17	2.0
10/16/2006	1:30:00	16.0	0.16	1.9
10/16/2006	1:45:00	16.0	0.15	1.8
10/16/2006	2:00:00	15.9	0.15	1.8
10/16/2006	2:15:00	15.9	0.14	1.7
10/16/2006	2:30:00	15.9	0.14	1.7
10/16/2006	2:45:00	15.8	0.14	1.6
10/16/2006	3:00:00	15.8	0.13	1.6
10/16/2006	3:15:00	15.8	0.13	1.6
10/16/2006	3:30:00	15.7	0.13	1.6
10/16/2006	3:45:00	15.7	0.13	1.6
10/16/2006	4:00:00	15.7	0.13	1.6
10/16/2006	4:15:00	15.7	0.13	1.6
10/16/2006	4:30:00	15.6	0.13	1.6
10/16/2006	4:45:00	15.6	0.13	1.6
10/16/2006	5:00:00	15.5	0.13	1.6
10/16/2006	5:15:00	15.5	0.14	1.6
10/16/2006	5:30:00	15.4	0.14	1.6
10/16/2006	5:45:00	15.4	0.14	1.6
10/16/2006	6:00:00	15.3	0.14	1.7
10/16/2006	6:15:00	15.3	0.14	1.7
10/16/2006	6:30:00	15.2	0.14	1.7
10/16/2006	6:45:00	15.2	0.14	1.7
10/16/2006	7:00:00	15.1	0.14	1.7
10/16/2006	7:15:00	15.1	0.14	1.7

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/16/2006	7:30:00	15.0	0.14	1.7
10/16/2006	7:45:00	15.0	0.14	1.7
10/16/2006	8:00:00	14.9	0.14	1.7
10/16/2006	8:15:00	14.9	0.14	1.7
10/16/2006	8:30:00	14.8	0.14	1.7
10/16/2006	8:45:00	14.8	0.14	1.7
10/16/2006	9:00:00	14.7	0.14	1.7
10/16/2006	9:15:00	14.7	0.14	1.7
10/16/2006	9:30:00	14.7	0.14	1.7
10/16/2006	9:45:00	14.7	0.14	1.7
10/16/2006	10:00:00	14.7	0.14	1.7
10/16/2006	10:15:00	14.7	0.14	1.7
10/16/2006	10:30:00	14.7	0.14	1.7
10/16/2006	10:45:00	14.7	0.14	1.7
10/16/2006	11:00:00	14.7	0.14	1.7
10/16/2006	11:15:00	14.8	0.14	1.6
10/16/2006	11:30:00	14.9	0.14	1.6
10/16/2006	11:45:00	14.9	0.14	1.6
10/16/2006	12:00:00	15.0	0.13	1.6
10/16/2006	12:15:00	15.1	0.13	1.6
10/16/2006	12:30:00	15.2	0.13	1.6
10/16/2006	12:45:00	15.3	0.13	1.5
10/16/2006	13:00:00	15.5	0.13	1.5
10/16/2006	13:15:00	15.6	0.12	1.5
10/16/2006	13:30:00	15.7	0.12	1.5
10/16/2006	13:45:00	15.9	0.12	1.5
10/16/2006	14:00:00	16.0	0.12	1.4
10/16/2006	14:15:00	16.1	0.12	1.4
10/16/2006	14:30:00	16.3	0.12	1.4
10/16/2006	14:45:00	16.4	0.11	1.4
10/16/2006	15:00:00	16.5	0.11	1.4
10/16/2006	15:15:00	16.7	0.11	1.4
10/16/2006	15:30:00	16.8	0.11	1.3
10/16/2006	15:45:00	16.9	0.11	1.3
10/16/2006	16:00:00	17.0	0.11	1.4
10/16/2006	16:15:00	17.1	0.11	1.4
10/16/2006	16:30:00	17.2	0.12	1.4
10/16/2006	16:45:00	17.3	0.12	1.4
10/16/2006	17:00:00	17.4	0.12	1.4
10/16/2006	17:15:00	17.4	0.12	1.5
10/16/2006	17:30:00	17.5	0.12	1.5
10/16/2006	17:45:00	17.5	0.12	1.5
10/16/2006	18:00:00	17.5	0.12	1.5
10/16/2006	18:15:00	17.4	0.12	1.5
10/16/2006	18:30:00	17.4	0.12	1.5
10/16/2006	18:45:00	17.4	0.12	1.5

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/16/2006	19:00:00	17.4	0.12	1.5
10/16/2006	19:15:00	17.3	0.12	1.5
10/16/2006	19:30:00	17.3	0.12	1.5
10/16/2006	19:45:00	17.2	0.12	1.5
10/16/2006	20:00:00	17.2	0.12	1.5
10/16/2006	20:15:00	17.1	0.12	1.5
10/16/2006	20:30:00	17.0	0.12	1.5
10/16/2006	20:45:00	17.0	0.12	1.5
10/16/2006	21:00:00	16.9	0.12	1.5
10/16/2006	21:15:00	16.8	0.12	1.5
10/16/2006	21:30:00	16.8	0.12	1.5
10/16/2006	21:45:00	16.7	0.12	1.5
10/16/2006	22:00:00	16.6	0.12	1.5
10/16/2006	22:15:00	16.6	0.12	1.5
10/16/2006	22:30:00	16.5	0.12	1.5
10/16/2006	22:45:00	16.4	0.12	1.5
10/16/2006	23:00:00	16.4	0.12	1.5
10/16/2006	23:15:00	16.3	0.12	1.5
10/16/2006	23:30:00	16.2	0.12	1.5
10/16/2006	23:45:00	16.2	0.12	1.5
10/17/2006	0:00:00	16.1	0.12	1.5
10/17/2006	0:15:00	16.0	0.12	1.5
10/17/2006	0:30:00	15.9	0.12	1.5
10/17/2006	0:45:00	15.9	0.12	1.5
10/17/2006	1:00:00	15.8	0.12	1.5
10/17/2006	1:15:00	15.7	0.13	1.5
10/17/2006	1:30:00	15.6	0.13	1.5
10/17/2006	1:45:00	15.5	0.13	1.5
10/17/2006	2:00:00	15.5	0.13	1.5
10/17/2006	2:15:00	15.4	0.13	1.5
10/17/2006	2:30:00	15.3	0.13	1.5
10/17/2006	2:45:00	15.2	0.13	1.5
10/17/2006	3:00:00	15.1	0.13	1.5
10/17/2006	3:15:00	15.0	0.13	1.5
10/17/2006	3:30:00	14.9	0.13	1.5
10/17/2006	3:45:00	14.8	0.13	1.5
10/17/2006	4:00:00	14.7	0.13	1.5
10/17/2006	4:15:00	14.6	0.13	1.5
10/17/2006	4:30:00	14.5	0.13	1.5
10/17/2006	4:45:00	14.4	0.13	1.5
10/17/2006	5:00:00	14.3	0.13	1.5
10/17/2006	5:15:00	14.1	0.13	1.5
10/17/2006	5:30:00	14.0	0.13	1.5
10/17/2006	5:45:00	13.8	0.13	1.5
10/17/2006	6:00:00	13.7	0.13	1.5
10/17/2006	6:15:00	13.5	0.13	1.5

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/17/2006	6:30:00	13.4	0.13	1.5
10/17/2006	6:45:00	13.3	0.14	1.5
10/17/2006	7:00:00	13.1	0.14	1.6
10/17/2006	7:15:00	13.0	0.14	1.6
10/17/2006	7:30:00	12.9	0.14	1.6
10/17/2006	7:45:00	12.7	0.14	1.5
10/17/2006	8:00:00	13.5	8.25*	94.9
10/17/2006	8:15:00	13.5	8.32	95.5
10/17/2006	8:30:00	13.4	8.34	95.8
10/17/2006	8:45:00	13.4	8.37	96.0
10/17/2006	9:00:00	13.5	8.39	96.3
10/17/2006	9:15:00	13.5	8.41	96.7
10/17/2006	9:30:00	13.6	8.42	97.0
10/17/2006	9:45:00	13.8	8.42	97.3
10/17/2006	10:00:00	13.9	8.42	97.6
10/17/2006	10:15:00	14.1	8.42	98.0
10/17/2006	10:30:00	14.3	8.41	98.3
10/17/2006	10:45:00	14.5	8.41	98.7
10/17/2006	11:00:00	14.6	8.41	99.1
10/17/2006	11:15:00	14.8	8.41	99.4
10/17/2006	11:30:00	15.0	8.39	99.7
10/17/2006	11:45:00	15.3	8.36	99.9
10/17/2006	12:00:00	15.4	8.34	99.9
10/17/2006	12:15:00	15.5	8.37	100.6
10/17/2006	12:30:00	15.8	8.34	100.9
10/17/2006	12:45:00	16.0	8.31	100.9
10/17/2006	13:00:00	16.3	8.28	101.1
10/17/2006	13:15:00	16.5	8.25	101.2
10/17/2006	13:30:00	16.5	8.22	100.8
10/17/2006	13:45:00	16.7	8.19	100.9
10/17/2006	14:00:00	16.9	8.17	101.0
10/17/2006	14:15:00	17.1	8.14	101.0
10/17/2006	14:30:00	17.2	8.11	101.0
10/17/2006	14:45:00	17.3	8.08	100.7
10/17/2006	15:00:00	17.3	8.04	100.3
10/17/2006	15:15:00	17.4	8.00	100.0
10/17/2006	15:30:00	17.3	7.98	99.6
10/17/2006	15:45:00	17.4	7.96	99.5
10/17/2006	16:00:00	17.6	7.93	99.4
10/17/2006	16:15:00	17.5	7.91	99.1
10/17/2006	16:30:00	17.4	7.90	98.8
10/17/2006	16:45:00	17.3	7.90	98.5
10/17/2006	17:00:00	17.2	7.90	98.3
10/17/2006	17:15:00	17.1	7.91	98.2
10/17/2006	17:30:00	17.0	7.92	98.0
10/17/2006	17:45:00	16.8	7.92	97.8

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/17/2006	18:00:00	16.8	7.92	97.6
10/17/2006	18:15:00	16.6	7.92	97.5
10/17/2006	18:30:00	16.5	7.93	97.3
10/17/2006	18:45:00	16.4	7.94	97.2
10/17/2006	19:00:00	16.2	7.95	97.0
10/17/2006	19:15:00	16.1	7.96	96.9
10/17/2006	19:30:00	16.1	7.96	96.7
10/17/2006	19:45:00	16.0	7.97	96.6
10/17/2006	20:00:00	15.9	7.97	96.5
10/17/2006	20:15:00	15.8	7.98	96.4
10/17/2006	20:30:00	15.7	7.98	96.3
10/17/2006	20:45:00	15.6	7.99	96.2
10/17/2006	21:00:00	15.6	8.00	96.2
10/17/2006	21:15:00	15.4	8.02	96.2
10/17/2006	21:30:00	15.4	8.03	96.1
10/17/2006	21:45:00	15.3	8.04	96.1
10/17/2006	22:00:00	15.2	8.05	96.1
10/17/2006	22:15:00	15.2	8.06	96.1
10/17/2006	22:30:00	15.2	8.07	96.1
10/17/2006	22:45:00	15.1	8.07	96.1
10/17/2006	23:00:00	15.1	8.08	96.1
10/17/2006	23:15:00	15.1	8.09	96.2
10/17/2006	23:30:00	15.0	8.11	96.3
10/17/2006	23:45:00	15.0	8.12	96.3
10/18/2006	0:00:00	14.9	8.13	96.4
10/18/2006	0:15:00	14.9	8.14	96.4
10/18/2006	0:30:00	14.8	8.15	96.4
10/18/2006	0:45:00	14.8	8.16	96.5
10/18/2006	1:00:00	14.8	8.16	96.5
10/18/2006	1:15:00	14.8	8.16	96.5
10/18/2006	1:30:00	14.8	8.17	96.5
10/18/2006	1:45:00	14.8	8.17	96.5
10/18/2006	2:00:00	14.8	8.18	96.6
10/18/2006	2:15:00	14.7	8.18	96.6
10/18/2006	2:30:00	14.7	8.19	96.6
10/18/2006	2:45:00	14.7	8.20	96.6
10/18/2006	3:00:00	14.7	8.20	96.6
10/18/2006	3:15:00	14.6	8.20	96.6
10/18/2006	3:30:00	14.6	8.21	96.7
10/18/2006	3:45:00	14.5	8.22	96.6
10/18/2006	4:00:00	14.5	8.23	96.7
10/18/2006	4:15:00	14.5	8.24	96.8
10/18/2006	4:30:00	14.4	8.24	96.7
10/18/2006	4:45:00	14.4	8.25	96.7
10/18/2006	5:00:00	14.3	8.27	96.8
10/18/2006	5:15:00	14.3	8.28	96.8

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/18/2006	5:30:00	14.2	8.30	96.9
10/18/2006	5:45:00	14.2	8.31	97.0
10/18/2006	6:00:00	14.1	8.33	97.0
10/18/2006	6:15:00	14.0	8.35	97.1
10/18/2006	6:30:00	14.0	8.36	97.1
10/18/2006	6:45:00	13.9	8.38	97.1
10/18/2006	7:00:00	13.8	8.40	97.2
10/18/2006	7:15:00	13.7	8.42	97.2
10/18/2006	7:30:00	13.7	8.44	97.3
10/18/2006	7:45:00	13.6	8.45	97.3
10/18/2006	8:00:00	13.5	8.46	97.2
10/18/2006	8:15:00	13.5	8.47	97.2
10/18/2006	8:30:00	13.4	8.49	97.3
10/18/2006	8:45:00	13.3	8.50	97.2
10/18/2006	9:00:00	13.3	8.51	97.4
10/18/2006	9:15:00	13.4	8.52	97.7
10/18/2006	9:30:00	13.4	8.54	98.0
10/18/2006	9:45:00	13.5	8.55	98.3
10/18/2006	10:00:00	13.7	8.56	98.7
10/18/2006	10:15:00	13.8	8.56	99.1
10/18/2006	10:30:00	14.1	8.57	99.7
10/18/2006	10:45:00	14.2	8.56	100.0
10/18/2006	11:00:00	14.4	8.57	100.4
10/18/2006	11:15:00	14.6	8.55	100.8
10/18/2006	11:30:00	14.7	8.53	100.7
10/18/2006	11:45:00	14.9	8.52	101.0
10/18/2006	12:00:00	15.1	8.50	101.2
10/18/2006	12:15:00	15.3	8.48	101.4
10/18/2006	12:30:00	15.5	8.46	101.6
10/18/2006	12:45:00	15.7	8.43	101.7
10/18/2006	13:00:00	15.8	8.40	101.5
10/18/2006	13:15:00	16.0	8.38	101.6
10/18/2006	13:30:00	16.1	8.35	101.5
10/18/2006	13:45:00	16.3	8.32	101.6
10/18/2006	14:00:00	16.3	8.30	101.4
10/18/2006	14:15:00	16.2	8.29	101.1
10/18/2006	14:30:00	16.1	8.28	100.7
10/18/2006	14:45:00	16.1	8.26	100.6
10/18/2006	15:00:00	16.2	8.23	100.4
10/18/2006	15:15:00	16.2	8.20	100.0
10/18/2006	15:30:00	16.2	8.19	99.7
10/18/2006	15:45:00	16.1	8.16	99.3
10/18/2006	16:00:00	16.2	8.10	98.7
10/18/2006	16:15:00	16.2	8.10	98.7
10/18/2006	16:30:00	16.2	8.04	98.0
10/18/2006	16:45:00	16.3	7.98	97.4

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/18/2006	17:00:00	16.3	7.90	96.5
10/18/2006	17:15:00	16.3	7.87	96.2
10/18/2006	17:30:00	16.3	7.82	95.5
10/18/2006	17:45:00	16.3	7.72	94.3
10/18/2006	18:00:00	16.2	7.81	95.3
10/18/2006	18:15:00	16.2	7.78	94.8
10/18/2006	18:30:00	16.1	7.67	93.3
10/18/2006	18:45:00	15.9	7.83	94.9
10/18/2006	19:00:00	15.8	7.81	94.3
10/18/2006	19:15:00	15.6	7.76	93.5
10/18/2006	19:30:00	15.5	7.78	93.4
10/18/2006	19:45:00	15.4	7.66	91.7
10/18/2006	20:00:00	15.3	7.49	89.5
10/18/2006	20:15:00	15.2	7.29	86.9
10/18/2006	20:30:00	15.1	7.09	84.4
10/18/2006	20:45:00	15.0	7.16	85.1
10/18/2006	21:00:00	14.9	7.28	86.2
10/18/2006	21:15:00	14.8	7.24	85.5
10/18/2006	21:30:00	14.7	8.03	94.6
10/18/2006	21:45:00	14.6	7.80	91.8
10/18/2006	22:00:00	14.5	7.69	90.4
10/18/2006	22:15:00	14.4	7.64	89.6
10/18/2006	22:30:00	14.3	7.49	87.5
10/18/2006	22:45:00	14.2	7.73	90.3
10/18/2006	23:00:00	14.1	7.89	91.9
10/18/2006	23:15:00	14.1	8.13	94.6
10/18/2006	23:30:00	14.0	7.87	91.4
10/18/2006	23:45:00	13.9	7.81	90.5
10/19/2006	0:00:00	13.8	8.20	94.9
10/19/2006	0:15:00	13.7	8.34	96.2
10/19/2006	0:30:00	13.6	8.36	96.4
10/19/2006	0:45:00	13.6	8.33	95.9
10/19/2006	1:00:00	13.5	8.25	94.8
10/19/2006	1:15:00	13.4	8.26	94.8
10/19/2006	1:30:00	13.4	8.01	91.8
10/19/2006	1:45:00	13.3	7.83	89.6
10/19/2006	2:00:00	13.2	7.64	87.2
10/19/2006	2:15:00	13.1	7.36	83.9
10/19/2006	2:30:00	13.1	7.14	81.2
10/19/2006	2:45:00	13.0	6.96	79.1
10/19/2006	3:00:00	13.0	6.75	76.8
10/19/2006	3:15:00	13.0	6.55	74.5
10/19/2006	3:30:00	13.0	6.37	72.4
10/19/2006	3:45:00	13.0	6.18	70.2
10/19/2006	4:00:00	13.0	5.99	68.0
10/19/2006	4:15:00	13.0	5.82	66.1

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/19/2006	4:30:00	13.0	5.66	64.3
10/19/2006	4:45:00	13.0	5.49	62.5
10/19/2006	5:00:00	13.1	5.33	60.6
10/19/2006	5:15:00	13.1	5.17	58.9
10/19/2006	5:30:00	13.1	5.01	57.1
10/19/2006	5:45:00	13.1	4.86	55.3
10/19/2006	6:00:00	13.1	4.70	53.6
10/19/2006	6:15:00	13.2	4.55	51.9
10/19/2006	6:30:00	13.2	4.40	50.2
10/19/2006	6:45:00	13.1	4.25*	48.4
10/19/2006	7:00:00	13.2	4.11	46.9
10/19/2006	7:15:00	13.1	3.98	45.3
10/19/2006	7:30:00	13.1	3.85	43.9
10/19/2006	7:45:00	13.1	3.73	42.4
10/19/2006	8:00:00	13.1	3.62	41.2
10/19/2006	8:15:00	13.1	3.51	40.0
10/19/2006	8:30:00	13.0	3.43	39.0
10/19/2006	8:45:00	13.0	3.33	37.8
10/19/2006	9:00:00	12.9	3.25	36.9
10/19/2006	9:15:00	12.9	3.18	36.1
10/19/2006	9:30:00	12.9	3.10	35.1
10/19/2006	9:45:00	12.8	3.02	34.2
10/19/2006	10:00:00	12.8	2.97	33.5
10/19/2006	10:15:00	12.8	2.89	32.7
10/19/2006	10:30:00	12.8	2.82	31.9
10/19/2006	10:45:00	12.8	2.77	31.3
10/19/2006	11:00:00	12.7	2.71	30.6
10/19/2006	11:15:00	12.7	2.64	29.9
10/19/2006	11:30:00	12.7	2.59	29.3
10/19/2006	11:45:00	12.7	2.54	28.7
10/19/2006	12:00:00	12.7	2.50	28.2
10/19/2006	12:15:00	12.8	2.44	27.6
10/19/2006	12:30:00	12.8	2.40	27.2
10/19/2006	12:45:00	12.8	2.36	26.7
10/19/2006	13:00:00	12.8	2.31	26.1
10/19/2006	13:15:00	12.9	2.25	25.5
10/19/2006	13:30:00	12.9	2.19	24.8
10/19/2006	13:45:00	13.0	2.13	24.2
10/19/2006	14:00:00	13.0	2.07	23.6
10/19/2006	14:15:00	13.1	2.02	23.0
10/19/2006	14:30:00	13.2	1.98	22.6
10/19/2006	14:45:00	13.5	1.90	21.9
10/19/2006	15:00:00	13.5	1.87	21.4
10/19/2006	15:15:00	13.5	1.82	21.0
10/19/2006	15:30:00	13.6	1.79	20.5
10/19/2006	15:45:00	13.6	1.74	20.1

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/19/2006	16:00:00	13.7	1.70	19.6
10/19/2006	16:15:00	13.8	1.66	19.2
10/19/2006	16:30:00	13.8	1.63	18.8
10/19/2006	16:45:00	13.9	1.60	18.5
10/19/2006	17:00:00	14.0	1.56	18.1
10/19/2006	17:15:00	14.1	1.54	18.0
10/19/2006	17:30:00	14.2	1.51	17.6
10/19/2006	17:45:00	14.3	1.49	17.4
10/19/2006	18:00:00	14.4	1.46	17.1
10/19/2006	18:15:00	14.5	1.45	17.0
10/19/2006	18:30:00	14.6	1.44	16.9
10/19/2006	18:45:00	14.6	1.44	17.0
10/19/2006	19:00:00	14.6	1.42	16.8
10/19/2006	19:15:00	14.7	1.41	16.6
10/19/2006	19:30:00	14.7	1.39	16.4
10/19/2006	19:45:00	14.7	1.38	16.3
10/19/2006	20:00:00	14.7	1.36	16.1
10/19/2006	20:15:00	14.7	1.34	15.8
10/19/2006	20:30:00	14.7	1.31	15.5
10/19/2006	20:45:00	14.8	1.29	15.2
10/19/2006	21:00:00	14.7	1.27	15.1
10/19/2006	21:15:00	14.7	1.27	15.0
10/19/2006	21:30:00	14.7	1.27	15.0
10/19/2006	21:45:00	14.7	1.29	15.2
10/19/2006	22:00:00	14.7	1.32	15.6
10/19/2006	22:15:00	14.7	1.35	16.0
10/19/2006	22:30:00	14.6	1.39	16.4
10/19/2006	22:45:00	14.6	1.43	16.9
10/19/2006	23:00:00	14.6	1.48	17.4
10/19/2006	23:15:00	14.5	1.52	17.8
10/19/2006	23:30:00	14.5	1.57	18.4
10/19/2006	23:45:00	14.5	1.61	18.9
10/20/2006	0:00:00	14.4	1.65	19.3
10/20/2006	0:15:00	14.4	1.70	19.9
10/20/2006	0:30:00	14.4	1.75	20.5
10/20/2006	0:45:00	14.3	1.81	21.2
10/20/2006	1:00:00	14.3	1.87	21.8
10/20/2006	1:15:00	14.2	1.93	22.5
10/20/2006	1:30:00	14.2	1.99	23.2
10/20/2006	1:45:00	14.1	2.04	23.7
10/20/2006	2:00:00	14.1	2.09	24.3
10/20/2006	2:15:00	14.0	2.14	24.9
10/20/2006	2:30:00	14.0	2.19	25.4
10/20/2006	2:45:00	13.9	2.26	26.2
10/20/2006	3:00:00	13.9	2.34	27.2
10/20/2006	3:15:00	13.9	2.45	28.4

Table 5.13. Water quality measurements at Site 3, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/20/2006	3:30:00	13.8	2.56	29.7
10/20/2006	3:45:00	13.7	2.80	32.3
10/20/2006	4:00:00	13.6	2.95	33.9
10/20/2006	4:15:00	13.5	2.98	34.3
10/20/2006	4:30:00	13.5	3.07	35.2
10/20/2006	4:45:00	13.4	3.26	37.4
10/20/2006	5:00:00	13.4	3.63	41.6
10/20/2006	5:15:00	13.3	4.02	46.0
10/20/2006	5:30:00	13.3	4.29	49.1
10/20/2006	5:45:00	13.3	4.52	51.6
10/20/2006	6:00:00	13.2	4.73	54.1
10/20/2006	6:15:00	12.9	5.22	59.1
10/20/2006	6:30:00	12.7	5.83	65.7
10/20/2006	6:45:00	12.6	6.19	69.7
10/20/2006	7:00:00	12.6	6.24	70.3
10/20/2006	7:15:00	12.6	6.23	70.2
10/20/2006	7:30:00	12.6	6.22	70.1
10/20/2006	7:45:00	12.6	6.31	70.9
10/20/2006	8:00:00	12.5	6.26	70.4
10/20/2006	8:15:00	12.5	6.22	69.9
10/20/2006	8:30:00	12.5	6.23	70.0
10/20/2006	8:45:00	12.4	6.33	71.0

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

Serial Number	**40184**	**Name**	**:**	**Homer**
Log	**File**	**Name**	**:**	**s3padillas_10_13-06**
Setup	**Date**	**(MMDDYY)**	**:**	**101306.00**
Setup	**Time**	**(HHMMSS)**	**:**	**133941.00**
Starting	**Date**	**(MMDDYY)**	**:**	**101306.00**
Starting	**Time**	**(HHMMSS)**	**:**	**140000.00**
Stopping	**Date**	**(MMDDYY)**	**:**	**102006.00**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000.00**
Measurement	**Interval**	**(HHMMSS)**	**:**	
Sensor	**warmup**	**(HHMMSS)**	**:**	**200.00**
Circltr	**warmup**	**(HHMMSS)**	**:**	**100.00**

Date (MMDDYYYY)	Time HHMMSS	Temp (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
10/13/2006	14:30:00	17.2	340	8.27	7.23	89.8
10/13/2006	14:45:00	17.4	341	8.27	7.19	89.7
10/13/2006	15:00:00	17.5	342	8.26	7.09	88.7
10/13/2006	15:15:00	17.6	342	8.26	7.05	88.4
10/13/2006	15:30:00	17.8	343	8.25	6.98	87.8
10/13/2006	15:45:00	17.9	342	8.25	6.96	87.7
10/13/2006	16:00:00	17.9	343	8.24	6.88	86.8
10/13/2006	16:15:00	18.0	344	8.24	6.87	86.8
10/13/2006	16:30:00	18.1	342	8.24	6.82	86.3
10/13/2006	16:45:00	18.1	343	8.24	6.80	86.1
10/13/2006	17:00:00	18.1	343	8.23	6.78	85.9
10/13/2006	17:15:00	18.1	343	8.23	6.74	85.4
10/13/2006	17:30:00	18.0	342	8.23	6.77	85.7
10/13/2006	17:45:00	18.0	341	8.23	6.74	85.2
10/13/2006	18:00:00	17.9	340	8.23	6.73	85.0
10/13/2006	18:15:00	17.9	341	8.22	6.73	84.9
10/13/2006	18:30:00	17.8	340	8.22	6.73	84.8
10/13/2006	18:45:00	17.8	340	8.22	6.68	84.0
10/13/2006	19:00:00	17.7	339	8.22	6.66	83.7
10/13/2006	19:15:00	17.7	339	8.22	6.67	83.7
10/13/2006	19:30:00	17.6	339	8.22	6.65	83.4
10/13/2006	19:45:00	17.6	338	8.22	6.66	83.4
10/13/2006	20:00:00	17.5	338	8.22	6.68	83.6
10/13/2006	20:15:00	17.5	338	8.21	6.64	83.1
10/13/2006	20:30:00	17.5	338	8.21	6.67	83.4
10/13/2006	20:45:00	17.4	338	8.21	6.69	83.5
10/13/2006	21:00:00	17.4	338	8.21	6.69	83.4
10/13/2006	21:15:00	17.3	338	8.21	6.67	83.1
10/13/2006	21:30:00	17.2	337	8.21	6.71	83.4
10/13/2006	21:45:00	17.2	337	8.22	6.74	83.7
10/13/2006	22:00:00	17.1	337	8.21	6.69	83.0
10/13/2006	22:15:00	17.1	338	8.21	6.72	83.3

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/13/2006	22:30:00	17.0	339	8.21	6.74	83.3
10/13/2006	22:45:00	16.9	338	8.21	6.77	83.7
10/13/2006	23:00:00	16.9	339	8.21	6.72	82.9
10/13/2006	23:15:00	16.8	338	8.21	6.78	83.5
10/13/2006	23:30:00	16.7	339	8.21	6.81	83.8
10/13/2006	23:45:00	16.6	339	8.21	6.79	83.5
10/14/2006	0:00:00	16.6	340	8.21	6.78	83.3
10/14/2006	0:15:00	16.5	340	8.21	6.82	83.6
10/14/2006	0:30:00	16.5	342	8.20	6.79	83.2
10/14/2006	0:45:00	16.4	341	8.20	6.79	83.1
10/14/2006	1:00:00	16.4	343	8.20	6.81	83.3
10/14/2006	1:15:00	16.4	343	8.19	6.81	83.2
10/14/2006	1:30:00	16.3	343	8.21	6.84	83.4
10/14/2006	1:45:00	16.2	343	8.21	6.76	82.4
10/14/2006	2:00:00	16.2	343	8.21	6.87	83.6
10/14/2006	2:15:00	16.1	343	8.20	6.89	83.7
10/14/2006	2:30:00	16.0	343	8.20	6.94	84.1
10/14/2006	2:45:00	15.9	343	8.20	6.90	83.5
10/14/2006	3:00:00	15.9	343	8.19	6.89	83.2
10/14/2006	3:15:00	15.8	343	8.18	6.91	83.4
10/14/2006	3:30:00	15.7	343	8.18	6.91	83.2
10/14/2006	3:45:00	15.6	343	8.19	6.96	83.7
10/14/2006	4:00:00	15.5	343	8.19	6.95	83.5
10/14/2006	4:15:00	15.5	344	8.19	6.95	83.3
10/14/2006	4:30:00	15.4	343	8.19	7.01	83.9
10/14/2006	4:45:00	15.3	343	8.20	7.04	84.1
10/14/2006	5:00:00	15.2	342	8.20	7.03	83.7
10/14/2006	5:15:00	15.1	341	8.20	7.01	83.4
10/14/2006	5:30:00	15.0	341	8.21	7.05	83.6
10/14/2006	5:45:00	14.9	340	8.22	7.14	84.5
10/14/2006	6:00:00	14.9	339	8.22	7.03	83.1
10/14/2006	6:15:00	14.8	340	8.21	7.07	83.5
10/14/2006	6:30:00	14.7	338	8.22	7.01	82.6
10/14/2006	6:45:00	14.6	338	8.22	6.96	81.9
10/14/2006	7:00:00	14.6	338	8.22	6.99	82.2
10/14/2006	7:15:00	14.5	337	8.22	7.10	83.3
10/14/2006	7:30:00	14.5	336	8.23	7.02	82.3
10/14/2006	7:45:00	14.4	336	8.23	7.03	82.4
10/14/2006	8:00:00	14.3	335	8.22	7.11	83.2
10/14/2006	8:15:00	14.3	334	8.23	7.20	84.1
10/14/2006	8:30:00	14.2	334	8.24	7.26	84.7
10/14/2006	8:45:00	14.2	334	8.24	7.10	82.8
10/14/2006	9:00:00	14.2	333	8.24	7.12	83.1
10/14/2006	9:15:00	14.2	333	8.25	7.24	84.4
10/14/2006	9:30:00	14.2	333	8.25	7.24	84.4
10/14/2006	9:45:00	14.2	333	8.25	7.24	84.4

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/14/2006	10:00:00	14.3	332	8.25	7.21	84.2
10/14/2006	10:15:00	14.3	332	8.25	7.24	84.7
10/14/2006	10:30:00	14.4	332	8.26	7.19	84.0
10/14/2006	10:45:00	14.5	331	8.26	7.18	84.2
10/14/2006	11:00:00	14.5	332	8.26	7.11	83.4
10/14/2006	11:15:00	14.6	331	8.26	7.25	85.3
10/14/2006	11:30:00	14.6	331	8.26	7.19	84.6
10/14/2006	11:45:00	14.7	331	8.26	7.23	85.2
10/14/2006	12:00:00	14.8	331	8.27	7.14	84.4
10/14/2006	12:15:00	15.0	331	8.27	7.15	84.8
10/14/2006	12:30:00	15.3	331	8.27	7.20	85.8
10/14/2006	12:45:00	15.3	332	8.27	7.24	86.4
10/14/2006	13:00:00	15.5	332	8.27	7.28	87.3
10/14/2006	13:15:00	15.6	333	8.27	7.22	86.6
10/14/2006	13:30:00	15.6	333	8.28	7.22	86.8
10/14/2006	13:45:00	15.7	334	8.27	7.16	86.2
10/14/2006	14:00:00	15.8	334	8.28	7.16	86.3
10/14/2006	14:15:00	16.0	334	8.27	7.14	86.4
10/14/2006	14:30:00	16.1	336	8.27	7.04	85.5
10/14/2006	14:45:00	16.1	336	8.27	7.15	86.8
10/14/2006	15:00:00	16.1	336	8.26	7.12	86.4
10/14/2006	15:15:00	16.1	336	8.26	7.15	86.8
10/14/2006	15:30:00	16.2	339	8.25	7.10	86.6
10/14/2006	15:45:00	16.3	339	8.25	7.03	85.7
10/14/2006	16:00:00	16.4	340	8.25	6.95	84.9
10/14/2006	16:15:00	16.4	340	8.25	7.01	85.7
10/14/2006	16:30:00	16.4	341	8.24	7.07	86.4
10/14/2006	16:45:00	16.4	343	8.24	6.99	85.5
10/14/2006	17:00:00	16.5	343	8.23	6.86	84.0
10/14/2006	17:15:00	16.5	343	8.23	6.96	85.3
10/14/2006	17:30:00	16.5	343	8.22	6.94	85.0
10/14/2006	17:45:00	16.4	344	8.22	6.89	84.3
10/14/2006	18:00:00	16.4	344	8.22	6.91	84.5
10/14/2006	18:15:00	16.4	344	8.21	6.94	84.7
10/14/2006	18:30:00	16.3	345	8.21	6.99	85.3
10/14/2006	18:45:00	16.3	345	8.21	6.97	85.0
10/14/2006	19:00:00	16.2	343	8.21	6.94	84.5
10/14/2006	19:15:00	16.2	344	8.20	6.94	84.5
10/14/2006	19:30:00	16.2	343	8.20	6.94	84.4
10/14/2006	19:45:00	16.2	343	8.20	6.88	83.7
10/14/2006	20:00:00	16.2	344	8.19	6.93	84.4
10/14/2006	20:15:00	16.2	344	8.19	6.88	83.7
10/14/2006	20:30:00	16.2	343	8.19	6.92	84.1
10/14/2006	20:45:00	16.2	344	8.18	6.88	83.6
10/14/2006	21:00:00	16.1	343	8.18	6.87	83.5
10/14/2006	21:15:00	16.1	343	8.18	6.92	84.0

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/14/2006	21:30:00	16.1	342	8.18	6.88	83.5
10/14/2006	21:45:00	16.1	342	8.18	6.91	83.8
10/14/2006	22:00:00	16.1	342	8.18	6.87	83.3
10/14/2006	22:15:00	16.0	341	8.18	6.83	82.8
10/14/2006	22:30:00	16.0	341	8.18	6.90	83.6
10/14/2006	22:45:00	16.0	341	8.18	6.90	83.6
10/14/2006	23:00:00	16.0	340	8.18	6.86	82.8
10/14/2006	23:15:00	15.9	340	8.18	6.90	83.4
10/14/2006	23:30:00	15.9	341	8.18	6.83	82.6
10/14/2006	23:45:00	15.9	342	8.18	6.87	83.0
10/15/2006	0:00:00	15.9	341	8.18	6.84	82.6
10/15/2006	0:15:00	15.9	341	8.18	6.83	82.5
10/15/2006	0:30:00	15.9	340	8.18	6.85	82.8
10/15/2006	0:45:00	15.8	341	8.18	6.81	82.3
10/15/2006	1:00:00	15.8	341	8.19	6.82	82.3
10/15/2006	1:15:00	15.8	341	8.18	6.85	82.6
10/15/2006	1:30:00	15.8	341	8.19	6.91	83.4
10/15/2006	1:45:00	15.8	342	8.18	6.89	83.1
10/15/2006	2:00:00	15.8	342	8.18	6.87	82.8
10/15/2006	2:15:00	15.8	343	8.18	6.92	83.4
10/15/2006	2:30:00	15.8	343	8.18	6.86	82.8
10/15/2006	2:45:00	15.7	343	8.18	6.89	83.0
10/15/2006	3:00:00	15.7	343	8.18	6.90	83.1
10/15/2006	3:15:00	15.7	343	8.18	6.91	83.1
10/15/2006	3:30:00	15.6	343	8.18	6.93	83.3
10/15/2006	3:45:00	15.6	343	8.18	6.93	83.3
10/15/2006	4:00:00	15.6	344	8.18	6.93	83.2
10/15/2006	4:15:00	15.5	341	8.19	6.95	83.3
10/15/2006	4:30:00	15.4	341	8.19	6.98	83.6
10/15/2006	4:45:00	15.4	340	8.19	6.93	82.9
10/15/2006	5:00:00	15.4	342	8.19	7.02	83.8
10/15/2006	5:15:00	15.3	341	8.19	6.97	83.2
10/15/2006	5:30:00	15.3	341	8.19	6.99	83.3
10/15/2006	5:45:00	15.2	341	8.19	6.92	82.4
10/15/2006	6:00:00	15.2	341	8.19	6.98	83.1
10/15/2006	6:15:00	15.1	340	8.19	6.90	82.1
10/15/2006	6:30:00	15.1	339	8.19	6.99	82.9
10/15/2006	6:45:00	15.0	338	8.19	6.97	82.6
10/15/2006	7:00:00	14.9	337	8.20	7.02	83.1
10/15/2006	7:15:00	14.8	337	8.19	7.03	83.2
10/15/2006	7:30:00	14.8	337	8.20	7.06	83.4
10/15/2006	7:45:00	14.7	336	8.20	7.09	83.6
10/15/2006	8:00:00	14.6	335	8.20	7.10	83.6
10/15/2006	8:15:00	14.6	335	8.20	7.10	83.5
10/15/2006	8:30:00	14.6	335	8.21	7.06	83.1
10/15/2006	8:45:00	14.6	334	8.20	7.08	83.3

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/15/2006	9:00:00	14.7	334	8.21	7.12	83.9
10/15/2006	9:15:00	14.8	333	8.21	7.14	84.3
10/15/2006	9:30:00	14.9	333	8.21	7.18	85.0
10/15/2006	9:45:00	15.0	333	8.21	7.12	84.4
10/15/2006	10:00:00	15.1	334	8.21	7.13	84.8
10/15/2006	10:15:00	15.2	333	8.21	7.13	84.9
10/15/2006	10:30:00	15.4	333	8.21	7.15	85.5
10/15/2006	10:45:00	15.5	332	8.21	7.07	84.8
10/15/2006	11:00:00	15.7	332	8.21	7.08	85.2
10/15/2006	11:15:00	15.9	331	8.21	7.06	85.3
10/15/2006	11:30:00	16.0	330	8.20	6.98	84.5
10/15/2006	11:45:00	16.0	330	8.20	7.01	85.0
10/15/2006	12:00:00	16.1	330	8.20	7.00	84.9
10/15/2006	12:15:00	16.0	329	8.20	6.99	84.8
10/15/2006	12:30:00	16.1	329	8.20	6.97	84.6
10/15/2006	12:45:00	16.3	328	8.20	6.93	84.5
10/15/2006	13:00:00	16.5	329	8.20	6.97	85.3
10/15/2006	13:15:00	16.5	329	8.20	6.99	85.6
10/15/2006	13:30:00	16.4	329	8.20	6.92	84.6
10/15/2006	13:45:00	16.4	330	8.19	6.94	84.9
10/15/2006	14:00:00	16.4	331	8.19	6.98	85.4
10/15/2006	14:15:00	16.4	332	8.19	6.93	84.6
10/15/2006	14:30:00	16.3	332	8.18	7.03	85.8
10/15/2006	14:45:00	16.3	332	8.19	7.05	86.1
10/15/2006	15:00:00	16.3	333	8.19	7.05	86.0
10/15/2006	15:15:00	16.3	334	8.19	7.03	85.7
10/15/2006	15:30:00	16.4	335	8.18	6.99	85.5
10/15/2006	15:45:00	16.5	336	8.19	6.99	85.7
10/15/2006	16:00:00	16.7	337	8.18	6.97	85.7
10/15/2006	16:15:00	16.8	338	8.18	6.96	85.8
10/15/2006	16:30:00	16.9	338	8.18	6.93	85.6
10/15/2006	16:45:00	16.9	337	8.17	6.90	85.3
10/15/2006	17:00:00	17.0	339	8.17	6.86	84.9
10/15/2006	17:15:00	16.9	340	8.16	6.88	85.0
10/15/2006	17:30:00	16.8	341	8.16	6.88	84.8
10/15/2006	17:45:00	16.7	340	8.15	6.92	85.1
10/15/2006	18:00:00	16.7	341	8.15	6.90	84.8
10/15/2006	18:15:00	16.6	340	8.15	6.85	84.0
10/15/2006	18:30:00	16.5	341	8.15	6.89	84.4
10/15/2006	18:45:00	16.5	341	8.14	6.90	84.4
10/15/2006	19:00:00	16.4	341	8.14	6.91	84.4
10/15/2006	19:15:00	16.3	342	8.13	6.86	83.6
10/15/2006	19:30:00	16.2	342	8.13	6.84	83.3
10/15/2006	19:45:00	16.2	340	8.13	6.85	83.3
10/15/2006	20:00:00	16.1	340	8.13	6.89	83.8
10/15/2006	20:15:00	16.1	339	8.13	6.91	83.9

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/15/2006	20:30:00	16.1	339	8.13	6.92	83.9
10/15/2006	20:45:00	16.0	339	8.13	6.89	83.6
10/15/2006	21:00:00	16.0	339	8.13	6.93	84.0
10/15/2006	21:15:00	16.0	338	8.12	6.94	84.1
10/15/2006	21:30:00	16.0	339	8.12	6.86	83.1
10/15/2006	21:45:00	16.0	338	8.12	6.90	83.6
10/15/2006	22:00:00	16.0	337	8.12	6.91	83.7
10/15/2006	22:15:00	16.0	339	8.12	6.79	82.3
10/15/2006	22:30:00	15.9	340	8.12	6.82	82.3
10/15/2006	22:45:00	15.8	339	8.12	6.88	83.1
10/15/2006	23:00:00	15.7	338	8.12	6.87	82.8
10/15/2006	23:15:00	15.7	338	8.13	6.89	83.0
10/15/2006	23:30:00	15.6	338	8.13	6.85	82.4
10/15/2006	23:45:00	15.5	337	8.14	6.90	82.7
10/16/2006	0:00:00	15.4	336	8.13	6.87	82.2
10/16/2006	0:15:00	15.4	337	8.13	6.93	82.9
10/16/2006	0:30:00	15.3	338	8.13	6.88	82.2
10/16/2006	0:45:00	15.3	340	8.13	6.85	81.6
10/16/2006	1:00:00	15.2	338	8.13	6.86	81.8
10/16/2006	1:15:00	15.2	339	8.13	6.82	81.3
10/16/2006	1:30:00	15.1	341	8.13	6.85	81.6
10/16/2006	1:45:00	15.1	339	8.13	6.98	82.9
10/16/2006	2:00:00	15.1	341	8.13	6.83	81.1
10/16/2006	2:15:00	15.0	339	8.13	6.92	82.1
10/16/2006	2:30:00	14.9	341	8.12	6.92	82.0
10/16/2006	2:45:00	14.9	342	8.12	6.79	80.3
10/16/2006	3:00:00	14.8	342	8.12	6.87	81.2
10/16/2006	3:15:00	14.8	342	8.12	6.92	81.6
10/16/2006	3:30:00	14.7	341	8.12	6.87	80.9
10/16/2006	3:45:00	14.6	343	8.12	6.89	81.1
10/16/2006	4:00:00	14.5	343	8.12	6.74	79.2
10/16/2006	4:15:00	14.4	343	8.12	6.76	79.1
10/16/2006	4:30:00	14.3	343	8.12	6.84	80.0
10/16/2006	4:45:00	14.3	343	8.13	6.87	80.2
10/16/2006	5:00:00	14.2	342	8.13	6.74	78.5
10/16/2006	5:15:00	14.1	337	8.13	6.87	79.8
10/16/2006	5:30:00	14.0	338	8.13	6.93	80.3
10/16/2006	5:45:00	13.9	327	8.14	6.81	78.8
10/16/2006	6:00:00	13.8	329	8.14	6.83	78.9
10/16/2006	6:15:00	13.7	324	8.15	6.92	79.8
10/16/2006	6:30:00	13.6	321	8.15	6.80	78.2
10/16/2006	6:45:00	13.5	317	8.15	6.62	76.0
10/16/2006	7:00:00	13.5	317	8.15	6.62	75.9
10/16/2006	7:15:00	13.4	310	8.16	6.68	76.4
10/16/2006	7:30:00	13.3	309	8.16	6.62	75.7
10/16/2006	7:45:00	13.2	306	8.16	6.70	76.4

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/16/2006	8:00:00	13.2	305	8.17	6.70	76.3
10/16/2006	8:15:00	13.2	305	8.17	6.73	76.6
10/16/2006	8:30:00	13.2	304	8.18	6.67	75.8
10/16/2006	8:45:00	13.2	304	8.18	6.69	76.3
10/16/2006	9:00:00	13.3	305	8.18	6.58	75.2
10/16/2006	9:15:00	13.4	305	8.18	6.49	74.4
10/16/2006	9:30:00	13.5	305	8.18	6.62	76.0
10/16/2006	9:45:00	13.6	305	8.19	6.61	76.1
10/16/2006	10:00:00	13.8	303	8.19	6.71	77.5
10/16/2006	10:15:00	14.0	302	8.19	6.68	77.5
10/16/2006	10:30:00	14.2	302	8.20	6.63	77.3
10/16/2006	10:45:00	14.5	301	8.20	6.61	77.5
10/16/2006	11:00:00	14.7	302	8.20	6.72	79.2
10/16/2006	11:15:00	14.9	302	8.20	6.73	79.7
10/16/2006	11:30:00	15.2	303	8.20	6.71	79.9
10/16/2006	11:45:00	15.5	303	8.20	6.62	79.3
10/16/2006	12:00:00	15.7	304	8.19	6.64	80.0
10/16/2006	12:15:00	15.9	304	8.20	6.57	79.5
10/16/2006	12:30:00	16.2	305	8.19	6.52	79.5
10/16/2006	12:45:00	16.5	306	8.19	6.42	78.6
10/16/2006	13:00:00	16.7	307	8.19	6.39	78.7
10/16/2006	13:15:00	17.0	308	8.19	6.35	78.6
10/16/2006	13:30:00	17.3	309	8.18	6.24	77.7
10/16/2006	13:45:00	17.5	310	8.17	6.20	77.5
10/16/2006	14:00:00	17.7	312	8.18	6.20	77.8
10/16/2006	14:15:00	17.8	313	8.17	6.09*	76.6
10/16/2006	14:30:00	18.1	315	8.16	6.11	77.4
10/16/2006	14:45:00	18.2	316	8.16	6.03	76.5
10/16/2006	15:00:00	18.4	317	8.16	5.96	75.9
10/16/2006	15:15:00	18.5	318	8.16	5.90	75.3
10/16/2006	15:30:00	18.6	319	8.15	5.89	75.4
10/16/2006	15:45:00	18.7	320	8.15	5.86	75.2
10/16/2006	16:00:00	18.7	321	8.15	5.88	75.4
10/16/2006	16:15:00	18.7	322	8.14	5.79	74.3
10/16/2006	16:30:00	18.7	323	8.14	5.83	74.7
10/16/2006	16:45:00	18.6	323	8.14	5.76	73.7
10/16/2006	17:00:00	18.6	323	8.14	5.65	72.2
10/16/2006	17:15:00	18.3	324	8.13	5.77	73.3
10/16/2006	17:30:00	18.3	324	8.13	5.70	72.4
10/16/2006	17:45:00	18.2	325	8.13	5.70	72.4
10/16/2006	18:00:00	18.1	325	8.13	5.80	73.5
10/16/2006	18:15:00	18.1	325	8.13	5.81	73.5
10/16/2006	18:30:00	18.0	326	8.13	5.72	72.2
10/16/2006	18:45:00	17.9	326	8.12	5.73	72.2
10/16/2006	19:00:00	17.7	326	8.12	5.71	71.7
10/16/2006	19:15:00	17.6	326	8.12	5.71	71.5

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/16/2006	19:30:00	17.4	327	8.12	5.66	70.7
10/16/2006	19:45:00	17.3	327	8.12	5.72	71.3
10/16/2006	20:00:00	17.2	327	8.12	5.65	70.3
10/16/2006	20:15:00	17.1	327	8.12	5.66	70.2
10/16/2006	20:30:00	17.0	327	8.12	5.66	70.0
10/16/2006	20:45:00	16.9	327	8.12	5.69	70.3
10/16/2006	21:00:00	16.8	327	8.12	5.71	70.4
10/16/2006	21:15:00	16.7	327	8.12	5.75	70.7
10/16/2006	21:30:00	16.6	327	8.12	5.72	70.3
10/16/2006	21:45:00	16.5	327	8.12	5.70	69.8
10/16/2006	22:00:00	16.4	327	8.12	5.78	70.7
10/16/2006	22:15:00	16.3	328	8.12	5.80	70.8
10/16/2006	22:30:00	16.2	328	8.13	5.82	70.8
10/16/2006	22:45:00	16.1	329	8.13	5.79	70.4
10/16/2006	23:00:00	15.9	330	8.13	5.78	70.0
10/16/2006	23:15:00	15.8	330	8.13	5.78	69.8
10/16/2006	23:30:00	15.7	331	8.13	5.75	69.3
10/16/2006	23:45:00	15.6	333	8.13	5.82	69.9
10/17/2006	0:00:00	15.5	334	8.14	5.79	69.5
10/17/2006	0:15:00	15.3	334	8.14	5.88	70.4
10/17/2006	0:30:00	15.3	335	8.14	5.80	69.3
10/17/2006	0:45:00	15.2	336	8.14	5.97	71.1
10/17/2006	1:00:00	15.0	337	8.15	5.71	67.8
10/17/2006	1:15:00	14.9	337	8.14	5.70	67.4
10/17/2006	1:30:00	14.7	338	8.15	5.77	68.0
10/17/2006	1:45:00	14.6	338	8.15	5.71	67.2
10/17/2006	2:00:00	14.3	338	8.16	5.69	66.5
10/17/2006	2:15:00	14.4	339	8.16	5.54	64.8
10/17/2006	2:30:00	14.3	339	8.16	5.62	65.7
10/17/2006	2:45:00	14.2	340	8.16	5.66	66.0
10/17/2006	3:00:00	13.9	340	8.16	5.63	65.2
10/17/2006	3:15:00	13.7	341	8.16	5.62	64.8
10/17/2006	3:30:00	13.6	340	8.16	5.49	63.1
10/17/2006	3:45:00	13.5	340	8.16	5.52	63.3
10/17/2006	4:00:00	13.4	340	8.16	5.44	62.3
10/17/2006	4:15:00	13.2	341	8.15	5.41	61.8
10/17/2006	4:30:00	13.0	341	8.13	5.49	62.4
10/17/2006	4:45:00	12.9	341	8.09	5.41	61.2
10/17/2006	5:00:00	12.5	341	8.15	5.62	63.1
10/17/2006	5:15:00	12.2	342	8.15	5.38	60.0
10/17/2006	5:30:00	12.0	342	8.13	5.36	59.6
10/17/2006	5:45:00	12.8	341	8.13	5.89	66.6
10/17/2006	6:00:00	12.7	342	8.13	6.12	69.0
10/17/2006	6:15:00	12.5	342	8.05	5.79	65.1
10/17/2006	6:30:00	12.4	342	8.03	5.90	66.0
10/17/2006	6:45:00	12.2	341	8.00	5.59	62.3

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/17/2006	7:00:00	11.9	341	7.99	5.37	59.5
10/17/2006	7:15:00	11.3	342	7.99	4.95	54.0
10/17/2006	7:30:00	10.9	340	7.99	5.13	55.6
10/17/2006	7:45:00	11.2	376	8.16	5.72	62.2
10/17/2006	8:00:00	13.3	361	8.24	7.05*	80.7
10/17/2006	8:15:00	13.3	360	8.23	7.14	81.5
10/17/2006	8:30:00	13.3	358	8.23	7.15	81.7
10/17/2006	8:45:00	13.3	358	8.23	7.13	81.4
10/17/2006	9:00:00	13.3	355	8.24	7.16	81.8
10/17/2006	9:15:00	13.3	354	8.24	7.22	82.6
10/17/2006	9:30:00	13.4	354	8.24	7.14	81.9
10/17/2006	9:45:00	13.6	354	8.24	7.18	82.6
10/17/2006	10:00:00	13.7	354	8.24	7.16	82.5
10/17/2006	10:15:00	13.9	354	8.25	7.10	82.3
10/17/2006	10:30:00	14.1	353	8.24	7.03	81.8
10/17/2006	10:45:00	14.3	350	8.25	7.10	83.0
10/17/2006	11:00:00	14.5	347	8.26	7.02	82.3
10/17/2006	11:15:00	14.6	346	8.26	7.06	83.1
10/17/2006	11:30:00	14.9	348	8.26	7.10	83.9
10/17/2006	11:45:00	15.1	350	8.25	6.96	82.8
10/17/2006	12:00:00	15.2	350	8.26	6.99	83.1
10/17/2006	12:15:00	15.4	347	8.27	7.33	87.7
10/17/2006	12:30:00	15.6	348	8.27	7.26	87.3
10/17/2006	12:45:00	15.9	350	8.26	7.23	87.4
10/17/2006	13:00:00	16.1	352	8.26	7.22	87.7
10/17/2006	13:15:00	16.3	353	8.24	7.18	87.7
10/17/2006	13:30:00	16.3	355	8.25	7.18	87.6
10/17/2006	13:45:00	16.5	356	8.24	7.19	88.1
10/17/2006	14:00:00	16.7	358	8.23	7.14	87.9
10/17/2006	14:15:00	16.9	359	8.24	7.09	87.6
10/17/2006	14:30:00	17.0	357	8.23	7.03	87.1
10/17/2006	14:45:00	17.1	360	8.22	6.98	86.6
10/17/2006	15:00:00	17.1	361	8.22	6.93	86.1
10/17/2006	15:15:00	17.2	363	8.21	6.96	86.5
10/17/2006	15:30:00	17.2	365	8.21	6.94	86.2
10/17/2006	15:45:00	17.2	364	8.21	6.93	86.2
10/17/2006	16:00:00	17.4	366	8.20	6.91	86.3
10/17/2006	16:15:00	17.3	366	8.20	6.88	85.8
10/17/2006	16:30:00	17.3	365	8.20	6.82	84.8
10/17/2006	16:45:00	17.1	365	8.19	6.86	85.1
10/17/2006	17:00:00	17.0	366	8.18	6.78	83.9
10/17/2006	17:15:00	16.9	367	8.18	6.84	84.5
10/17/2006	17:30:00	16.8	366	8.18	6.85	84.4
10/17/2006	17:45:00	16.7	367	8.17	6.83	84.2
10/17/2006	18:00:00	16.6	368	8.17	6.86	84.2
10/17/2006	18:15:00	16.5	367	8.17	6.80	83.2

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/17/2006	18:30:00	16.3	367	8.16	6.81	83.2
10/17/2006	18:45:00	16.2	368	8.16	6.80	82.8
10/17/2006	19:00:00	16.0	366	8.16	6.87	83.3
10/17/2006	19:15:00	15.9	365	8.16	6.80	82.3
10/17/2006	19:30:00	15.9	365	8.16	6.89	83.3
10/17/2006	19:45:00	15.8	365	8.16	6.90	83.2
10/17/2006	20:00:00	15.7	364	8.16	6.84	82.4
10/17/2006	20:15:00	15.6	362	8.16	6.84	82.2
10/17/2006	20:30:00	15.6	362	8.16	6.85	82.3
10/17/2006	20:45:00	15.5	361	8.16	6.89	82.6
10/17/2006	21:00:00	15.4	360	8.16	6.88	82.3
10/17/2006	21:15:00	15.3	357	8.16	6.87	82.0
10/17/2006	21:30:00	15.2	358	8.16	6.92	82.4
10/17/2006	21:45:00	15.1	357	8.16	6.94	82.5
10/17/2006	22:00:00	15.1	356	8.16	6.97	82.8
10/17/2006	22:15:00	15.0	354	8.16	6.86	81.4
10/17/2006	22:30:00	15.0	355	8.16	6.98	82.8
10/17/2006	22:45:00	15.0	355	8.16	6.95	82.4
10/17/2006	23:00:00	14.9	356	8.16	6.94	82.3
10/17/2006	23:15:00	14.9	355	8.16	7.02	83.1
10/17/2006	23:30:00	14.8	354	8.16	6.93	82.0
10/17/2006	23:45:00	14.8	354	8.16	6.93	81.9
10/18/2006	0:00:00	14.7	354	8.16	6.98	82.3
10/18/2006	0:15:00	14.7	355	8.16	7.00	82.5
10/18/2006	0:30:00	14.7	354	8.16	7.02	82.7
10/18/2006	0:45:00	14.6	355	8.16	7.06	83.1
10/18/2006	1:00:00	14.6	356	8.16	6.96	81.9
10/18/2006	1:15:00	14.6	356	8.16	7.01	82.4
10/18/2006	1:30:00	14.6	356	8.16	7.01	82.4
10/18/2006	1:45:00	14.6	357	8.16	7.03	82.6
10/18/2006	2:00:00	14.6	357	8.16	6.98	82.1
10/18/2006	2:15:00	14.5	358	8.16	7.01	82.4
10/18/2006	2:30:00	14.5	359	8.16	6.97	81.8
10/18/2006	2:45:00	14.5	359	8.16	6.98	81.9
10/18/2006	3:00:00	14.5	362	8.16	6.98	81.9
10/18/2006	3:15:00	14.5	364	8.15	7.01	82.2
10/18/2006	3:30:00	14.4	363	8.16	7.00	82.0
10/18/2006	3:45:00	14.4	364	8.15	6.97	81.6
10/18/2006	4:00:00	14.3	365	8.15	6.97	81.5
10/18/2006	4:15:00	14.3	365	8.15	7.02	82.0
10/18/2006	4:30:00	14.3	364	8.15	7.01	81.8
10/18/2006	4:45:00	14.2	365	8.15	7.02	81.9
10/18/2006	5:00:00	14.2	366	8.15	6.91	80.6
10/18/2006	5:15:00	14.1	367	8.16	7.01	81.6
10/18/2006	5:30:00	14.1	364	8.16	6.97	81.1
10/18/2006	5:45:00	14.0	365	8.16	7.02	81.5

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/18/2006	6:00:00	13.9	364	8.16	7.12	82.5
10/18/2006	6:15:00	13.9	364	8.16	7.03	81.4
10/18/2006	6:30:00	13.8	362	8.17	7.06	81.6
10/18/2006	6:45:00	13.7	362	8.17	7.06	81.5
10/18/2006	7:00:00	13.6	362	8.17	7.02	80.8
10/18/2006	7:15:00	13.6	360	8.18	7.13	81.9
10/18/2006	7:30:00	13.5	360	8.19	7.16	82.0
10/18/2006	7:45:00	13.4	358	8.19	7.13	81.7
10/18/2006	8:00:00	13.3	357	8.19	7.15	81.8
10/18/2006	8:15:00	13.3	358	8.19	7.14	81.5
10/18/2006	8:30:00	13.2	356	8.19	7.17	81.7
10/18/2006	8:45:00	13.2	355	8.20	7.16	81.5
10/18/2006	9:00:00	13.2	352	8.20	7.20	82.1
10/18/2006	9:15:00	13.2	352	8.21	7.19	82.0
10/18/2006	9:30:00	13.2	351	8.21	7.23	82.5
10/18/2006	9:45:00	13.4	350	8.22	7.16	82.0
10/18/2006	10:00:00	13.5	349	8.23	7.26	83.3
10/18/2006	10:15:00	13.7	348	8.23	7.26	83.7
10/18/2006	10:30:00	13.9	347	8.23	7.20	83.4
10/18/2006	10:45:00	14.1	344	8.24	7.18	83.5
10/18/2006	11:00:00	14.2	343	8.24	7.18	83.7
10/18/2006	11:15:00	14.5	343	8.24	7.13	83.6
10/18/2006	11:30:00	14.6	345	8.24	7.17	84.2
10/18/2006	11:45:00	14.7	346	8.24	7.11	83.9
10/18/2006	12:00:00	14.9	346	8.24	7.16	84.8
10/18/2006	12:15:00	15.1	347	8.24	7.17	85.3
10/18/2006	12:30:00	15.4	348	8.23	7.07	84.4
10/18/2006	12:45:00	15.5	349	8.23	7.01	84.1
10/18/2006	13:00:00	15.6	351	8.22	7.09	85.3
10/18/2006	13:15:00	15.8	354	8.22	7.11	85.8
10/18/2006	13:30:00	15.9	355	8.21	7.02	85.0
10/18/2006	13:45:00	16.1	356	8.22	6.96	84.6
10/18/2006	14:00:00	16.2	358	8.21	6.92	84.1
10/18/2006	14:15:00	16.1	360	8.20	6.89	83.6
10/18/2006	14:30:00	15.9	359	8.19	6.96	84.3
10/18/2006	14:45:00	16.0	362	8.19	6.89	83.5
10/18/2006	15:00:00	16.1	363	8.19	6.93	84.2
10/18/2006	15:15:00	16.1	364	8.18	6.86	83.3
10/18/2006	15:30:00	16.0	365	8.18	6.84	82.9
10/18/2006	15:45:00	16.0	365	8.18	6.89	83.5
10/18/2006	16:00:00	16.0	366	8.17	6.85	83.1
10/18/2006	16:15:00	16.0	367	8.17	6.79	82.3
10/18/2006	16:30:00	16.0	367	8.17	6.81	82.6
10/18/2006	16:45:00	16.1	368	8.17	6.70	81.4
10/18/2006	17:00:00	16.1	369	8.16	6.76	82.2
10/18/2006	17:15:00	16.2	370	8.15	6.70	81.5

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/18/2006	17:30:00	16.1	368	8.16	6.73	81.8
10/18/2006	17:45:00	16.1	369	8.15	6.73	81.8
10/18/2006	18:00:00	16.1	367	8.15	6.77	82.1
10/18/2006	18:15:00	16.0	368	8.15	6.70	81.2
10/18/2006	18:30:00	15.9	367	8.14	6.69	81.0
10/18/2006	18:45:00	15.8	367	8.14	6.76	81.6
10/18/2006	19:00:00	15.6	366	8.14	6.84	82.2
10/18/2006	19:15:00	15.5	364	8.14	6.81	81.7
10/18/2006	19:30:00	15.3	364	8.13	6.87	82.1
10/18/2006	19:45:00	15.2	364	8.13	6.89	82.1
10/18/2006	20:00:00	15.1	362	8.13	6.83	81.2
10/18/2006	20:15:00	15.0	363	8.13	6.86	81.4
10/18/2006	20:30:00	14.9	361	8.13	6.88	81.5
10/18/2006	20:45:00	14.8	360	8.13	6.92	81.8
10/18/2006	21:00:00	14.7	361	8.13	6.82	80.5
10/18/2006	21:15:00	14.6	359	8.13	6.85	80.6
10/18/2006	21:30:00	14.5	359	8.13	7.08	83.1
10/18/2006	21:45:00	14.4	359	8.13	7.02	82.2
10/18/2006	22:00:00	14.3	358	8.13	6.96	81.4
10/18/2006	22:15:00	14.2	356	8.13	6.94	80.9
10/18/2006	22:30:00	14.1	356	8.13	6.93	80.7
10/18/2006	22:45:00	14.1	356	8.12	7.00	81.3
10/18/2006	23:00:00	14.0	356	8.12	7.06	81.9
10/18/2006	23:15:00	13.9	356	8.12	7.03	81.4
10/18/2006	23:30:00	13.8	354	8.12	7.02	81.2
10/18/2006	23:45:00	13.7	354	8.12	7.15	82.5
10/19/2006	0:00:00	13.6	353	8.13	7.09	81.6
10/19/2006	0:15:00	13.5	351	8.13	7.14	82.0
10/19/2006	0:30:00	13.5	352	8.12	7.11	81.5
10/19/2006	0:45:00	13.4	351	8.12	7.21	82.5
10/19/2006	1:00:00	13.3	351	8.12	7.15	81.8
10/19/2006	1:15:00	13.3	351	8.12	7.07	80.8
10/19/2006	1:30:00	13.2	352	8.12	7.06	80.5
10/19/2006	1:45:00	13.1	351	8.11	7.19	81.8
10/19/2006	2:00:00	13.1	352	8.11	7.07	80.4
10/19/2006	2:15:00	13.0	353	8.11	7.27	82.5
10/19/2006	2:30:00	12.9	351	8.12	7.13	80.7
10/19/2006	2:45:00	12.8	352	8.12	7.30	82.6
10/19/2006	3:00:00	12.8	354	8.11	7.23	81.6
10/19/2006	3:15:00	12.7	353	8.12	7.34	82.7
10/19/2006	3:30:00	12.6	352	8.12	7.34	82.7
10/19/2006	3:45:00	12.5	353	8.13	7.38	82.8
10/19/2006	4:00:00	12.4	352	8.13	7.45	83.4
10/19/2006	4:15:00	12.3	354	8.13	7.28	81.4
10/19/2006	4:30:00	12.2	353	8.13	7.09	79.1
10/19/2006	4:45:00	12.1	121	8.10	4.60	51.1

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/19/2006	5:00:00	12.0	121	8.06	5.03	55.8
10/19/2006	5:15:00	12.0	121	8.04	4.87	54.1
10/19/2006	5:30:00	12.0	120	8.03	4.28	47.5
10/19/2006	5:45:00	11.9	120	8.00	4.41	48.8
10/19/2006	6:00:00	11.9	120	7.98	4.29	47.5
10/19/2006	6:15:00	11.9	120	7.95	4.41	48.8
10/19/2006	6:30:00	11.8	119	7.95	4.25	47.0
10/19/2006	6:45:00	11.8	119	7.94	3.61*	39.8
10/19/2006	7:00:00	11.8	119	7.91	3.35	36.9
10/19/2006	7:15:00	11.8	119	7.95	3.35	36.9
10/19/2006	7:30:00	11.8	120	7.94	3.17	35.0
10/19/2006	7:45:00	11.8	120	7.93	3.19	35.3
10/19/2006	8:00:00	11.7	120	7.82	3.10	34.1
10/19/2006	8:15:00	11.6	120	7.89	2.87	31.6
10/19/2006	8:30:00	11.6	120	7.91	2.90	31.9
10/19/2006	8:45:00	11.6	120	7.85	3.04	33.4
10/19/2006	9:00:00	11.6	120	7.91	3.09	34.0
10/19/2006	9:15:00	11.6	120	7.91	2.70	29.7
10/19/2006	9:30:00	11.6	120	7.85	3.07	33.7
10/19/2006	9:45:00	11.6	120	7.90	2.94	32.3
10/19/2006	10:00:00	11.6	120	7.84	3.01	33.1
10/19/2006	10:15:00	11.6	120	7.88	2.85	31.3
10/19/2006	10:30:00	11.7	120	7.87	3.18	35.0
10/19/2006	10:45:00	11.7	120	7.84	3.28	36.1
10/19/2006	11:00:00	11.8	119	7.84	2.78	30.7
10/19/2006	11:15:00	11.8	120	7.86	2.89	31.9
10/19/2006	11:30:00	11.9	120	7.85	2.94	32.5
10/19/2006	11:45:00	11.9	119	7.80	2.89	32.0
10/19/2006	12:00:00	12.0	119	7.82	3.10	34.5
10/19/2006	12:15:00	12.1	119	7.80	2.96	32.9
10/19/2006	12:30:00	12.2	119	7.80	2.70	30.1
10/19/2006	12:45:00	12.3	119	7.79	2.58	28.8
10/19/2006	13:00:00	12.5	119	7.82	2.58	28.9
10/19/2006	13:15:00	12.6	119	7.81	2.42	27.2
10/19/2006	13:30:00	12.7	119	7.83	2.28	25.7
10/19/2006	13:45:00	12.8	119	7.82	2.33	26.3
10/19/2006	14:00:00	12.9	119	7.84	2.36	26.7
10/19/2006	14:15:00	13.1	119	7.82	2.37	26.9
10/19/2006	14:30:00	13.2	120	7.81	2.37	27.0
10/19/2006	14:45:00	13.4	119	7.76	2.44	27.9
10/19/2006	15:00:00	13.7	119	7.74	2.41	27.8
10/19/2006	15:15:00	14.0	120	7.77	2.34	27.2
10/19/2006	15:30:00	14.1	119	7.80	2.04	23.7
10/19/2006	15:45:00	14.3	118	7.73	2.35	27.5
10/19/2006	16:00:00	14.5	119	7.76	2.19	25.7
10/19/2006	16:15:00	14.7	118	7.75	2.30	27.1

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/19/2006	16:30:00	14.8	118	7.77	2.36	27.9
10/19/2006	16:45:00	14.9	118	7.79	2.51	29.7
10/19/2006	17:00:00	14.9	118	7.79	3.03	35.8
10/19/2006	17:15:00	14.9	117	7.76	2.70	32.0
10/19/2006	17:30:00	14.9	117	7.77	2.61	30.9
10/19/2006	17:45:00	15.0	117	7.77	3.18	37.7
10/19/2006	18:00:00	15.0	116	7.77	3.07	36.3
10/19/2006	18:15:00	15.0	116	7.70	3.14	37.3
10/19/2006	18:30:00	15.0	116	7.74	3.81	45.2
10/19/2006	18:45:00	15.3	118	7.76	3.31	39.5
10/19/2006	19:00:00	15.1	118	7.71	3.28	38.9
10/19/2006	19:15:00	15.1	119	7.72	3.95	46.9
10/19/2006	19:30:00	15.0	118	7.71	3.06	36.3
10/19/2006	19:45:00	15.0	119	7.70	2.86	33.9
10/19/2006	20:00:00	15.0	119	7.73	3.00	35.5
10/19/2006	20:15:00	14.9	119	7.75	3.24	38.4
10/19/2006	20:30:00	14.8	119	7.74	3.13	36.9
10/19/2006	20:45:00	14.8	119	7.72	2.99	35.3
10/19/2006	21:00:00	14.7	119	7.75	3.05	35.9
10/19/2006	21:15:00	14.7	119	7.76	3.04	35.8
10/19/2006	21:30:00	14.6	119	7.75	3.00	35.3
10/19/2006	21:45:00	14.5	119	7.73	2.91	34.1
10/19/2006	22:00:00	14.4	119	7.73	3.02	35.3
10/19/2006	22:15:00	14.3	119	7.73	2.95	34.4
10/19/2006	22:30:00	14.3	119	7.70	2.76	32.2
10/19/2006	22:45:00	14.2	119	7.73	3.03	35.3
10/19/2006	23:00:00	14.2	119	7.73	3.95	45.9
10/19/2006	23:15:00	14.0	117	7.72	3.46	40.1
10/19/2006	23:30:00	13.9	117	7.71	3.23	37.4
10/19/2006	23:45:00	13.8	117	7.73	3.18	36.8
10/20/2006	0:00:00	13.8	116	7.74	3.05	35.2
10/20/2006	0:15:00	13.7	116	7.72	3.22	37.1
10/20/2006	0:30:00	13.7	115	7.74	4.05	46.7
10/20/2006	0:45:00	13.6	115	7.75	3.67	42.2
10/20/2006	1:00:00	13.6	117	7.79	3.06	35.2
10/20/2006	1:15:00	13.4	116	7.78	3.83*	43.8
10/20/2006	1:30:00	13.2	114	7.80	4.92*	56.1
10/20/2006	1:45:00	13.2	114	7.85	5.07*	57.7
10/20/2006	2:00:00	13.0	127	8.01	6.9*	78.3
10/20/2006	2:15:00	12.7	122	8.03	5.24*	59.0
10/20/2006	2:30:00	12.7	122	8.02	5.58*	62.9
10/20/2006	2:45:00	12.6	121	8.08	5.43*	61.0
10/20/2006	3:00:00	12.5	117	8.07	5.21*	58.4
10/20/2006	3:15:00	12.3	350	8.17	7.68	85.8
10/20/2006	3:30:00	12.2	125	8.16	6.55	72.9
10/20/2006	3:45:00	12.1	138	8.17	7.81	86.8

Table 5.14. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/20/2006	4:00:00	12.0	354	8.16	7.83	87.0
10/20/2006	4:15:00	11.9	354	8.17	7.85	87.0
10/20/2006	4:30:00	11.8	355	8.17	7.92	87.6
10/20/2006	4:45:00	11.7	355	8.17	7.91	87.3
10/20/2006	5:00:00	11.6	354	8.17	7.94	87.4
10/20/2006	5:15:00	11.5	354	8.17	7.96	87.4
10/20/2006	5:30:00	11.4	352	8.17	7.80	85.5
10/20/2006	5:45:00	11.3	352	8.15	7.88	86.1
10/20/2006	6:00:00	11.2	351	8.13	7.97	86.9
10/20/2006	6:15:00	11.1	350	8.22	8.04	87.5
10/20/2006	6:30:00	11.0	350	8.21	7.98	86.6
10/20/2006	6:45:00	10.9	346	8.16	8.05	87.2
10/20/2006	7:00:00	10.8	349	8.18	8.12	87.7
10/20/2006	7:15:00	10.7	347	8.20	8.14	87.7
10/20/2006	7:30:00	10.6	345	8.21	8.16	87.7
10/20/2006	7:45:00	10.5	345	8.21	8.16	87.5
10/20/2006	8:00:00	10.4	343	8.22	8.18	87.5
10/20/2006	8:15:00	10.4	341	8.22	8.25	88.2
10/20/2006	8:30:00	10.3	340	8.22	8.24	88.1
10/20/2006	8:45:00	10.3	339	8.23	8.25	88.1
10/20/2006	9:00:00	10.4	338	8.23	8.31	88.9
10/20/2006	9:15:00	10.4	339	8.24	8.27	88.6
10/20/2006	9:30:00	10.5	337	8.25	8.32	89.3
10/20/2006	9:45:00	10.7	336	8.25	8.34	89.8
10/20/2006	10:00:00	10.8	335	8.26	8.31	89.8
10/20/2006	10:15:00	11.0	335	8.26	8.31	90.2
10/20/2006	10:30:00	11.2	336	8.26	8.27	90.2
10/20/2006	10:45:00	11.4	335	8.24	8.26	90.5
10/20/2006	11:00:00	11.6	335	8.26	8.26	90.9
10/20/2006	11:15:00	11.8	334	8.22	8.19	90.6
10/20/2006	11:30:00	12.1	335	8.30	8.22	91.4
10/20/2006	11:45:00	12.3	336	8.27	8.04	89.9
10/20/2006	12:00:00	12.6	336	8.27	8.06	90.7

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:17:33
Report from file:	...\SN45473 2006-10-13 120000 S4Lunas10_13_06.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45473	
Firmware Version	1.58	
Unit name:	Nike	
Barometric Pressure:	631.587	
Test defined on:	10/12/2006	15:44:10
Test scheduled for:	10/13/2006	12:00:00
Test started on:	10/13/2006	12:00:00
Test stopped on:	1/21/2007	18:22:55
Data gathered using linear testing		
Time between data points	900	Seconds.

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/13/2006	16:45:00	17.4	7.78	98.1
10/13/2006	17:00:00	17.5	7.61	96.1
10/13/2006	17:15:00	17.5	7.56	95.5
10/13/2006	17:30:00	17.5	7.76	97.9
10/13/2006	17:45:00	17.5	7.75	97.8
10/13/2006	18:00:00	17.5	7.76	98.0
10/13/2006	18:15:00	17.5	7.54	95.2
10/13/2006	18:30:00	17.5	7.14	90.1
10/13/2006	18:45:00	17.5	6.82	86.1
10/13/2006	19:00:00	17.5	6.66	84.0
10/13/2006	19:15:00	17.5	6.59	83.2
10/13/2006	19:30:00	17.4	6.59	83.2
10/13/2006	19:45:00	17.5	6.56	82.8
10/13/2006	20:00:00	17.5	6.47	81.6
10/13/2006	20:15:00	17.5	6.39	80.7
10/13/2006	20:30:00	17.5	6.45	81.5
10/13/2006	20:45:00	17.5	6.52	82.3
10/13/2006	21:00:00	17.5	6.57	82.9
10/13/2006	21:15:00	17.5	6.58	83.0
10/13/2006	21:30:00	17.4	6.53	82.3
10/13/2006	21:45:00	17.4	6.53	82.3
10/13/2006	22:00:00	17.4	6.59	83.0
10/13/2006	22:15:00	17.3	6.67	83.9
10/13/2006	22:30:00	17.3	6.73	84.5
10/13/2006	22:45:00	17.3	6.77	85.1
10/13/2006	23:00:00	17.2	6.80	85.4
10/13/2006	23:15:00	17.1	6.80	85.2
10/13/2006	23:30:00	17.1	6.82	85.4
10/13/2006	23:45:00	17.0	6.84	85.5

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/14/2006	0:00:00	17.0	6.86	85.7
10/14/2006	0:15:00	16.9	6.88	85.8
10/14/2006	0:30:00	16.8	6.90	85.9
10/14/2006	0:45:00	16.8	6.90	85.8
10/14/2006	1:00:00	16.7	6.91	85.8
10/14/2006	1:15:00	16.7	6.91	85.8
10/14/2006	1:30:00	16.6	6.92	85.8
10/14/2006	1:45:00	16.6	6.94	85.9
10/14/2006	2:00:00	16.5	6.97	86.2
10/14/2006	2:15:00	16.4	7.01	86.5
10/14/2006	2:30:00	16.4	7.09	87.5
10/14/2006	2:45:00	16.3	7.25	89.3
10/14/2006	3:00:00	16.3	7.55	92.9
10/14/2006	3:15:00	16.2	7.63	93.8
10/14/2006	3:30:00	16.2	7.56	92.9
10/14/2006	3:45:00	16.1	7.31	89.7
10/14/2006	4:00:00	16.1	7.11	87.2
10/14/2006	4:15:00	16.0	6.98	85.4
10/14/2006	4:30:00	16.0	6.86	83.9
10/14/2006	4:45:00	16.0	6.75	82.5
10/14/2006	5:00:00	15.9	6.65	81.2
10/14/2006	5:15:00	15.8	6.64	81.0
10/14/2006	5:30:00	15.8	6.60	80.3
10/14/2006	5:45:00	15.7	6.50	79.1
10/14/2006	6:00:00	15.7	6.57	79.9
10/14/2006	6:15:00	15.6	6.69	81.3
10/14/2006	6:30:00	15.6	6.78	82.2
10/14/2006	6:45:00	15.5	6.81	82.6
10/14/2006	7:00:00	15.5	6.83	82.7
10/14/2006	7:15:00	15.5	6.87	83.0
10/14/2006	7:30:00	15.4	6.89	83.3
10/14/2006	7:45:00	15.4	6.90	83.4
10/14/2006	8:00:00	15.4	6.86	82.7
10/14/2006	8:15:00	15.3	6.88	83.0
10/14/2006	8:30:00	15.3	6.96	83.9
10/14/2006	8:45:00	15.3	7.06	85.0
10/14/2006	9:00:00	15.3	7.11	85.6
10/14/2006	9:15:00	15.3	7.11	85.6
10/14/2006	9:30:00	15.3	7.14	85.9
10/14/2006	9:45:00	15.3	7.34	88.4
10/14/2006	10:00:00	15.3	7.30	88.0
10/14/2006	10:15:00	15.3	7.25	87.5
10/14/2006	10:30:00	15.3	7.32	88.3
10/14/2006	10:45:00	15.4	7.50	90.5
10/14/2006	11:00:00	15.4	7.42	89.6
10/14/2006	11:15:00	15.4	7.26	87.7

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/14/2006	11:30:00	15.4	7.14	86.3
10/14/2006	11:45:00	15.4	7.09	85.7
10/14/2006	12:00:00	15.5	7.09	85.7
10/14/2006	12:15:00	15.5	7.12	86.3
10/14/2006	12:30:00	15.6	7.17	86.9
10/14/2006	12:45:00	15.6	7.17	87.0
10/14/2006	13:00:00	15.6	7.13	86.5
10/14/2006	13:15:00	15.7	7.10	86.2
10/14/2006	13:30:00	15.7	7.09	86.2
10/14/2006	13:45:00	15.8	7.09	86.3
10/14/2006	14:00:00	15.8	7.10	86.5
10/14/2006	14:15:00	15.9	7.09	86.5
10/14/2006	14:30:00	15.9	7.07	86.4
10/14/2006	14:45:00	15.9	7.08	86.3
10/14/2006	15:00:00	15.9	7.07	86.3
10/14/2006	15:15:00	15.8	7.07	86.2
10/14/2006	15:30:00	15.9	7.07	86.3
10/14/2006	15:45:00	15.9	7.06	86.2
10/14/2006	16:00:00	16.0	7.03	85.9
10/14/2006	16:15:00	16.0	6.96	85.1
10/14/2006	16:30:00	16.0	6.88	84.1
10/14/2006	16:45:00	16.0	6.79	83.0
10/14/2006	17:00:00	16.1	6.67	81.8
10/14/2006	17:15:00	16.1	6.56	80.4
10/14/2006	17:30:00	16.1	6.46	79.2
10/14/2006	17:45:00	16.0	6.37	77.9
10/14/2006	18:00:00	16.0	6.27	76.8
10/14/2006	18:15:00	16.0	6.19	75.7
10/14/2006	18:30:00	16.0	6.11	74.7
10/14/2006	18:45:00	15.9	6.05	73.9
10/14/2006	19:00:00	15.9	5.99	73.2
10/14/2006	19:15:00	15.9	5.94	72.5
10/14/2006	19:30:00	15.9	5.94	72.4
10/14/2006	19:45:00	15.9	5.97	72.8
10/14/2006	20:00:00	15.9	5.99	73.1
10/14/2006	20:15:00	15.9	5.99	73.1
10/14/2006	20:30:00	15.9	5.97	72.8
10/14/2006	20:45:00	15.9	5.94	72.5
10/14/2006	21:00:00	15.9	5.91	72.1
10/14/2006	21:15:00	15.8	5.88	71.7
10/14/2006	21:30:00	15.8	5.85	71.3
10/14/2006	21:45:00	15.8	5.82	71.0
10/14/2006	22:00:00	15.8	5.81	70.7
10/14/2006	22:15:00	15.8	5.80	70.6
10/14/2006	22:30:00	15.8	5.79	70.5
10/14/2006	22:45:00	15.8	5.79	70.5

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/14/2006	23:00:00	15.8	5.80	70.5
10/14/2006	23:15:00	15.8	5.80	70.7
10/14/2006	23:30:00	15.8	5.81	70.7
10/14/2006	23:45:00	15.8	5.82	70.9
10/15/2006	0:00:00	15.8	5.83	71.0
10/15/2006	0:15:00	15.8	5.85	71.1
10/15/2006	0:30:00	15.7	5.85	71.2
10/15/2006	0:45:00	15.7	5.85	71.2
10/15/2006	1:00:00	15.7	5.85	71.1
10/15/2006	1:15:00	15.7	5.85	71.0
10/15/2006	1:30:00	15.7	5.85	71.0
10/15/2006	1:45:00	15.6	5.85	71.0
10/15/2006	2:00:00	15.6	5.86	71.1
10/15/2006	2:15:00	15.6	5.86	71.1
10/15/2006	2:30:00	15.6	5.86	71.1
10/15/2006	2:45:00	15.6	5.86	71.0
10/15/2006	3:00:00	15.6	5.86	71.1
10/15/2006	3:15:00	15.6	5.87	71.1
10/15/2006	3:30:00	15.6	5.87	71.1
10/15/2006	3:45:00	15.6	5.87	71.2
10/15/2006	4:00:00	15.5	5.88	71.3
10/15/2006	4:15:00	15.5	5.90	71.4
10/15/2006	4:30:00	15.5	5.91	71.6
10/15/2006	4:45:00	15.5	5.94	71.9
10/15/2006	5:00:00	15.5	5.97	72.3
10/15/2006	5:15:00	15.5	6.01	72.7
10/15/2006	5:30:00	15.5	6.09	73.6
10/15/2006	5:45:00	15.4	6.19	74.8
10/15/2006	6:00:00	15.4	6.26	75.7
10/15/2006	6:15:00	15.4	6.31	76.2
10/15/2006	6:30:00	15.4	6.34	76.6
10/15/2006	6:45:00	15.4	6.36	76.8
10/15/2006	7:00:00	15.4	6.38	77.0
10/15/2006	7:15:00	15.4	6.39	77.1
10/15/2006	7:30:00	15.3	6.38	77.0
10/15/2006	7:45:00	15.3	6.38	76.9
10/15/2006	8:00:00	15.3	6.39	76.9
10/15/2006	8:15:00	15.3	6.39	76.9
10/15/2006	8:30:00	15.3	6.40	77.1
10/15/2006	8:45:00	15.3	6.42	77.4
10/15/2006	9:00:00	15.3	6.45	77.8
10/15/2006	9:15:00	15.4	6.46	78.0
10/15/2006	9:30:00	15.4	6.45	78.0
10/15/2006	9:45:00	15.5	6.45	78.0
10/15/2006	10:00:00	15.6	6.45	78.2
10/15/2006	10:15:00	15.7	6.44	78.2

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/15/2006	10:30:00	15.8	6.42	78.1
10/15/2006	10:45:00	15.9	6.39	77.9
10/15/2006	11:00:00	16.0	6.36	77.8
10/15/2006	11:15:00	16.1	6.32	77.5
10/15/2006	11:30:00	16.2	6.30	77.3
10/15/2006	11:45:00	16.2	6.27	77.0
10/15/2006	12:00:00	16.2	6.25	76.7
10/15/2006	12:15:00	16.2	6.22	76.5
10/15/2006	12:30:00	16.2	6.20	76.1
10/15/2006	12:45:00	16.2	6.13	75.3
10/15/2006	13:00:00	16.1	6.03	74.0
10/15/2006	13:15:00	16.1	5.87	72.1
10/15/2006	13:30:00	16.1	5.68	69.7
10/15/2006	13:45:00	16.1	5.45	66.8
10/15/2006	14:00:00	16.1	5.19	63.7
10/15/2006	14:15:00	16.1	4.92	60.4
10/15/2006	14:30:00	16.1	4.65	57.0
10/15/2006	14:45:00	16.1	4.38	53.7
10/15/2006	15:00:00	16.1	4.12	50.5
10/15/2006	15:15:00	16.1	3.87*	47.4
10/15/2006	15:30:00	16.1	3.64	44.6
10/15/2006	15:45:00	16.0	3.42	41.9
10/15/2006	16:00:00	16.0	3.22	39.4
10/15/2006	16:15:00	16.0	3.04	37.2
10/15/2006	16:30:00	16.0	2.86	35.0
10/15/2006	16:45:00	16.0	2.71	33.1
10/15/2006	17:00:00	16.0	2.56	31.3
10/15/2006	17:15:00	16.0	2.43	29.7
10/15/2006	17:30:00	16.0	2.31	28.3
10/15/2006	17:45:00	16.0	2.20	26.9
10/15/2006	18:00:00	16.0	2.10	25.7
10/15/2006	18:15:00	16.0	2.01	24.5
10/15/2006	18:30:00	16.0	1.92	23.5
10/15/2006	18:45:00	16.0	1.84	22.5
10/15/2006	19:00:00	16.0	1.76	21.5
10/15/2006	19:15:00	16.0	1.69	20.7
10/15/2006	19:30:00	16.0	1.62	19.8
10/15/2006	19:45:00	16.0	1.56	19.1
10/15/2006	20:00:00	16.0	1.50	18.4
10/15/2006	20:15:00	16.0	1.44	17.7
10/15/2006	20:30:00	16.0	1.39	17.0
10/15/2006	20:45:00	16.0	1.34	16.4
10/15/2006	21:00:00	16.0	1.29	15.8
10/15/2006	21:15:00	16.0	1.25	15.3
10/15/2006	21:30:00	16.0	1.21	14.8
10/15/2006	21:45:00	16.0	1.17	14.3

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/15/2006	22:00:00	16.0	1.13	13.9
10/15/2006	22:15:00	16.0	1.10	13.5
10/15/2006	22:30:00	16.0	1.07	13.1
10/15/2006	22:45:00	16.0	1.04	12.8
10/15/2006	23:00:00	16.0	1.01	12.4
10/15/2006	23:15:00	16.0	0.99	12.1
10/15/2006	23:30:00	16.0	0.97	11.8
10/15/2006	23:45:00	16.0	0.94	11.6
10/16/2006	0:00:00	16.0	0.92	11.3
10/16/2006	0:15:00	16.1	0.90	11.1
10/16/2006	0:30:00	16.1	0.88	10.8
10/16/2006	0:45:00	16.1	0.87	10.6
10/16/2006	1:00:00	16.1	0.85	10.4
10/16/2006	1:15:00	16.1	0.83	10.2
10/16/2006	1:30:00	16.1	0.82	10.0
10/16/2006	1:45:00	16.1	0.80	9.8
10/16/2006	2:00:00	16.1	0.79	9.6
10/16/2006	2:15:00	16.1	0.77	9.5
10/16/2006	2:30:00	16.1	0.76	9.3
10/16/2006	2:45:00	16.1	0.75	9.1
10/16/2006	3:00:00	16.1	0.73	9.0
10/16/2006	3:15:00	16.1	0.72	8.8
10/16/2006	3:30:00	16.1	0.71	8.7
10/16/2006	3:45:00	16.0	0.70	8.5
10/16/2006	4:00:00	16.1	0.69	8.4
10/16/2006	4:15:00	16.1	0.68	8.3
10/16/2006	4:30:00	16.1	0.67	8.2
10/16/2006	4:45:00	16.1	0.66	8.1
10/16/2006	5:00:00	16.1	0.65	8.0
10/16/2006	5:15:00	16.0	0.65	7.9
10/16/2006	5:30:00	16.0	0.64	7.9
10/16/2006	5:45:00	16.0	0.64	7.8
10/16/2006	6:00:00	16.0	0.64	7.8
10/16/2006	6:15:00	16.0	0.64	7.8
10/16/2006	6:30:00	16.0	0.64	7.8
10/16/2006	6:45:00	16.0	0.64	7.8
10/16/2006	7:00:00	16.0	0.64	7.8
10/16/2006	7:15:00	16.0	0.64	7.8
10/16/2006	7:30:00	16.0	0.64	7.9
10/16/2006	7:45:00	16.0	0.64	7.9
10/16/2006	8:00:00	16.0	0.64	7.9
10/16/2006	8:15:00	16.0	0.64	7.9
10/16/2006	8:30:00	16.0	0.64	7.9
10/16/2006	8:45:00	14.0	0.64	7.5
10/16/2006	9:00:00	14.0	0.94	11.0
10/16/2006	9:15:00	14.0	1.42	16.7

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/16/2006	9:30:00	14.0	1.94	22.8
10/16/2006	9:45:00	14.1	2.43	28.6
10/16/2006	10:00:00	14.2	2.84	33.4
10/16/2006	10:15:00	14.3	3.24	38.2
10/16/2006	10:30:00	14.4	3.75	44.3
10/16/2006	10:45:00	14.5	4.18*	49.5
10/16/2006	11:00:00	14.7	8.23	97.8
10/16/2006	11:15:00	14.8	7.79	92.7
10/16/2006	11:30:00	14.8	7.37	87.8
10/16/2006	11:45:00	14.8	7.19	85.6
10/16/2006	12:00:00	14.9	7.06	84.3
10/16/2006	12:15:00	15.1	6.93	83.1
10/16/2006	12:30:00	15.2	6.81	81.9
10/16/2006	12:45:00	15.4	6.71	81.0
10/16/2006	13:00:00	15.6	6.61	80.1
10/16/2006	13:15:00	15.7	6.52	79.3
10/16/2006	13:30:00	15.9	6.45	78.7
10/16/2006	13:45:00	16.1	6.38	78.1
10/16/2006	14:00:00	16.3	6.32	77.7
10/16/2006	14:15:00	16.5	6.25	77.3
10/16/2006	14:30:00	16.7	6.19	76.9
10/16/2006	14:45:00	16.8	6.14	76.4
10/16/2006	15:00:00	16.9	6.10	76.1
10/16/2006	15:15:00	17.0	6.06	75.7
10/16/2006	15:30:00	17.1	6.03	75.5
10/16/2006	15:45:00	17.1	6.01	75.3
10/16/2006	16:00:00	17.2	6.00	75.2
10/16/2006	16:15:00	17.2	5.98	75.0
10/16/2006	16:30:00	17.2	5.96	74.8
10/16/2006	16:45:00	17.2	5.93	74.5
10/16/2006	17:00:00	17.2	5.92	74.3
10/16/2006	17:15:00	17.2	5.93	74.5
10/16/2006	17:30:00	17.2	5.96	74.8
10/16/2006	17:45:00	17.2	6.00	75.3
10/16/2006	18:00:00	17.1	6.05	75.8
10/16/2006	18:15:00	17.1	6.09	76.2
10/16/2006	18:30:00	17.1	6.12	76.6
10/16/2006	18:45:00	17.0	6.15	76.9
10/16/2006	19:00:00	17.0	6.17	77.1
10/16/2006	19:15:00	16.9	6.19	77.2
10/16/2006	19:30:00	16.9	6.20	77.3
10/16/2006	19:45:00	16.8	6.22	77.4
10/16/2006	20:00:00	16.7	6.24	77.5
10/16/2006	20:15:00	16.6	6.26	77.7
10/16/2006	20:30:00	16.6	6.29	77.9
10/16/2006	20:45:00	16.5	6.30	78.0

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/16/2006	21:00:00	16.4	6.32	78.1
10/16/2006	21:15:00	16.4	6.32	78.0
10/16/2006	21:30:00	16.4	6.33	78.1
10/16/2006	21:45:00	16.3	6.32	77.9
10/16/2006	22:00:00	16.3	6.31	77.8
10/16/2006	22:15:00	16.3	6.31	77.7
10/16/2006	22:30:00	16.3	6.30	77.5
10/16/2006	22:45:00	16.2	6.31	77.5
10/16/2006	23:00:00	16.2	6.31	77.5
10/16/2006	23:15:00	16.2	6.31	77.5
10/16/2006	23:30:00	16.1	6.32	77.5
10/16/2006	23:45:00	16.1	6.33	77.5
10/17/2006	0:00:00	16.1	6.33	77.6
10/17/2006	0:15:00	16.1	6.34	77.6
10/17/2006	0:30:00	16.0	6.33	77.5
10/17/2006	0:45:00	16.0	6.33	77.4
10/17/2006	1:00:00	15.9	6.32	77.2
10/17/2006	1:15:00	15.9	6.32	77.1
10/17/2006	1:30:00	15.8	6.31	76.9
10/17/2006	1:45:00	15.7	6.30	76.7
10/17/2006	2:00:00	15.7	6.30	76.5
10/17/2006	2:15:00	15.6	6.29	76.3
10/17/2006	2:30:00	15.5	6.29	76.2
10/17/2006	2:45:00	15.5	6.29	76.1
10/17/2006	3:00:00	15.4	6.29	75.9
10/17/2006	3:15:00	15.3	6.29	75.8
10/17/2006	3:30:00	15.3	6.29	75.7
10/17/2006	3:45:00	15.2	6.30	75.7
10/17/2006	4:00:00	15.1	6.30	75.7
10/17/2006	4:15:00	15.0	6.31	75.6
10/17/2006	4:30:00	15.0	6.32	75.6
10/17/2006	4:45:00	14.9	6.33	75.5
10/17/2006	5:00:00	14.8	6.34	75.6
10/17/2006	5:15:00	14.7	6.36	75.6
10/17/2006	5:30:00	14.6	6.38	75.7
10/17/2006	5:45:00	14.5	6.39	75.7
10/17/2006	6:00:00	14.5	6.40	75.8
10/17/2006	6:15:00	14.4	6.41	75.8
10/17/2006	6:30:00	14.3	6.41	75.7
10/17/2006	6:45:00	14.3	6.42	75.7
10/17/2006	7:00:00	14.2	6.43	75.7
10/17/2006	7:15:00	14.1	6.44	75.6
10/17/2006	7:30:00	14.1	6.45	75.6
10/17/2006	7:45:00	14.0	6.45	75.5
10/17/2006	8:00:00	13.9	6.47	75.6
10/17/2006	8:15:00	13.9	6.48	75.7

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/17/2006	8:30:00	13.9	6.49	75.9
10/17/2006	8:45:00	13.9	6.49	75.8
10/17/2006	9:00:00	13.9	6.50	75.9
10/17/2006	9:15:00	14.0	6.50	76.1
10/17/2006	9:30:00	14.1	6.50	76.3
10/17/2006	9:45:00	14.2	6.52	76.7
10/17/2006	10:00:00	14.4	6.55	77.4
10/17/2006	10:15:00	14.6	6.58	78.1
10/17/2006	10:30:00	14.9	6.60	78.8
10/17/2006	10:45:00	15.2	6.60	79.4
10/17/2006	11:00:00	15.4	6.61	79.9
10/17/2006	11:15:00	15.7	6.59	80.2
10/17/2006	11:30:00	16.0	6.58	80.6
10/17/2006	11:45:00	16.3	6.55	80.7
10/17/2006	12:00:00	16.6	6.51	80.7
10/17/2006	12:15:00	16.8	6.45	80.3
10/17/2006	12:30:00	17.0	6.38	79.8
10/17/2006	12:45:00	17.3	6.34	79.6
10/17/2006	13:00:00	17.5	6.23	78.8
10/17/2006	13:15:00	17.7	6.14	77.8
10/17/2006	13:30:00	17.7	6.04	76.6
10/17/2006	13:45:00	17.8	6.00	76.2
10/17/2006	14:00:00	18.0	5.90	75.3
10/17/2006	14:15:00	18.1	5.81	74.4
10/17/2006	14:30:00	18.1	5.73	73.4
10/17/2006	14:45:00	18.1	5.67	72.5
10/17/2006	15:00:00	18.0	5.63	71.8
10/17/2006	15:15:00	17.9	5.58	71.0
10/17/2006	15:30:00	17.8	5.54	70.3
10/17/2006	15:45:00	17.6	5.54	70.0
10/17/2006	16:00:00	17.4	5.55	69.9
10/17/2006	16:15:00	17.3	5.55	69.9
10/17/2006	16:30:00	17.1	5.55	69.5
10/17/2006	16:45:00	17.0	5.53	69.1
10/17/2006	17:00:00	16.7	5.51	68.3
10/17/2006	17:15:00	16.4	5.50	67.9
10/17/2006	17:30:00	16.1	5.50	67.4
10/17/2006	17:45:00	15.8	5.50	66.9
10/17/2006	18:00:00	15.4	5.51	66.6
10/17/2006	18:15:00	15.1	5.52	66.3
10/17/2006	18:30:00	14.8	5.52	65.8
10/17/2006	18:45:00	14.5	5.53	65.5
10/17/2006	19:00:00	14.1	5.57	65.4
10/17/2006	19:15:00	13.9	5.60	65.4
10/17/2006	19:30:00	13.8	5.61	65.4
10/17/2006	19:45:00	13.6	5.63	65.4

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/17/2006	20:00:00	13.4	5.63	65.1
10/17/2006	20:15:00	13.2	5.63	64.7
10/17/2006	20:30:00	13.0	5.66	64.8
10/17/2006	20:45:00	12.9	5.66	64.7
10/17/2006	21:00:00	12.7	5.68	64.6
10/17/2006	21:15:00	12.6	5.70	64.7
10/17/2006	21:30:00	12.6	5.72	64.9
10/17/2006	21:45:00	12.5	5.74	64.9
10/17/2006	22:00:00	12.4	5.74	64.8
10/17/2006	22:15:00	12.4	5.76	65.0
10/17/2006	22:30:00	12.3	5.77	65.1
10/17/2006	22:45:00	12.3	5.77	65.1
10/17/2006	23:00:00	12.3	5.80	65.3
10/17/2006	23:15:00	12.4	5.82	65.8
10/17/2006	23:30:00	12.6	5.79	65.6
10/17/2006	23:45:00	12.6	5.80	65.7
10/18/2006	0:00:00	12.6	5.79	65.6
10/18/2006	0:15:00	12.6	5.79	65.7
10/18/2006	0:30:00	12.7	5.78	65.7
10/18/2006	0:45:00	12.7	5.77	65.7
10/18/2006	1:00:00	12.8	5.75	65.6
10/18/2006	1:15:00	12.9	5.74	65.5
10/18/2006	1:30:00	12.9	5.72	65.3
10/18/2006	1:45:00	12.9	5.70	65.1
10/18/2006	2:00:00	12.9	5.67	64.8
10/18/2006	2:15:00	12.9	5.65	64.6
10/18/2006	2:30:00	12.9	5.63	64.4
10/18/2006	2:45:00	12.9	5.61	64.1
10/18/2006	3:00:00	12.9	5.59	63.9
10/18/2006	3:15:00	12.9	5.57	63.5
10/18/2006	3:30:00	12.8	5.54	63.2
10/18/2006	3:45:00	12.8	5.53	63.0
10/18/2006	4:00:00	12.7	5.51	62.7
10/18/2006	4:15:00	12.7	5.51	62.7
10/18/2006	4:30:00	12.7	5.49	62.3
10/18/2006	4:45:00	12.6	5.49	62.3
10/18/2006	5:00:00	12.5	5.46	61.8
10/18/2006	5:15:00	12.3	5.45	61.5
10/18/2006	5:30:00	12.2	5.46	61.4
10/18/2006	5:45:00	12.1	5.46	61.3
10/18/2006	6:00:00	12.0	5.48	61.4
10/18/2006	6:15:00	11.9	5.49	61.4
10/18/2006	6:30:00	11.9	5.49	61.3
10/18/2006	6:45:00	11.7	5.48	61.0
10/18/2006	7:00:00	11.6	5.51	61.2
10/18/2006	7:15:00	11.6	5.51	61.0

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/18/2006	7:30:00	11.5	5.55	61.5
10/18/2006	7:45:00	11.5	5.57	61.6
10/18/2006	8:00:00	11.5	5.59	61.8
10/18/2006	8:15:00	11.5	5.60	62.0
10/18/2006	8:30:00	11.5	5.64	62.5
10/18/2006	8:45:00	11.5	5.62	62.2
10/18/2006	9:00:00	11.5	5.61	62.0
10/18/2006	9:15:00	11.5	5.63	62.3
10/18/2006	9:30:00	11.5	5.65	62.5
10/18/2006	9:45:00	11.6	5.68	63.0
10/18/2006	10:00:00	11.8	5.69	63.4
10/18/2006	10:15:00	12.1	5.71	64.1
10/18/2006	10:30:00	12.5	5.69	64.4
10/18/2006	10:45:00	12.8	5.69	64.9
10/18/2006	11:00:00	13.1	5.68	65.2
10/18/2006	11:15:00	13.5	5.66	65.5
10/18/2006	11:30:00	13.8	5.66	66.0
10/18/2006	11:45:00	14.1	5.63	66.2
10/18/2006	12:00:00	14.5	5.65	66.9
10/18/2006	12:15:00	14.9	5.62	67.1
10/18/2006	12:30:00	15.3	5.57	67.2
10/18/2006	12:45:00	15.5	5.49	66.4
10/18/2006	13:00:00	15.7	5.54	67.3
10/18/2006	13:15:00	15.7	5.45	66.2
10/18/2006	13:30:00	15.6	5.44	66.0
10/18/2006	13:45:00	15.5	5.40	65.4
10/18/2006	14:00:00	15.4	5.40	65.2
10/18/2006	14:15:00	15.4	5.42	65.4
10/18/2006	14:30:00	15.3	5.36	64.6
10/18/2006	14:45:00	15.2	5.40	65.0
10/18/2006	15:00:00	15.2	5.40	65.0
10/18/2006	15:15:00	15.2	5.36	64.4
10/18/2006	15:30:00	15.1	5.36	64.2
10/18/2006	15:45:00	15.1	5.40	64.9
10/18/2006	16:00:00	15.2	5.36	64.4
10/18/2006	16:15:00	15.1	5.33	64.0
10/18/2006	16:30:00	14.8	5.26	62.7
10/18/2006	16:45:00	14.5	5.29	62.7
10/18/2006	17:00:00	14.3	5.28	62.3
10/18/2006	17:15:00	14.1	5.28	62.0
10/18/2006	17:30:00	13.9	5.31	62.1
10/18/2006	17:45:00	13.8	5.32	62.0
10/18/2006	18:00:00	13.7	5.32	61.9
10/18/2006	18:15:00	13.7	5.33	62.0
10/18/2006	18:30:00	13.7	5.37	62.5
10/18/2006	18:45:00	13.7	5.39	62.7

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/18/2006	19:00:00	13.6	5.35	62.1
10/18/2006	19:15:00	13.5	5.32	61.6
10/18/2006	19:30:00	13.3	5.29	61.0
10/18/2006	19:45:00	13.1	5.27	60.5
10/18/2006	20:00:00	13.0	5.28	60.5
10/18/2006	20:15:00	12.8	5.31	60.6
10/18/2006	20:30:00	12.7	5.35	60.9
10/18/2006	20:45:00	12.6	5.37	61.0
10/18/2006	21:00:00	12.5	5.40	61.2
10/18/2006	21:15:00	12.4	5.43	61.4
10/18/2006	21:30:00	12.3	5.46	61.5
10/18/2006	21:45:00	12.2	5.49	61.8
10/18/2006	22:00:00	12.1	5.51	61.9
10/18/2006	22:15:00	12.1	5.56	62.3
10/18/2006	22:30:00	11.9	5.57	62.2
10/18/2006	22:45:00	11.8	5.60	62.4
10/18/2006	23:00:00	11.7	5.63	62.7
10/18/2006	23:15:00	11.6	5.67	62.8
10/18/2006	23:30:00	11.5	5.70	63.0
10/18/2006	23:45:00	11.4	5.72	63.1
10/19/2006	0:00:00	11.2	5.75	63.2
10/19/2006	0:15:00	11.0	5.75	62.9
10/19/2006	0:30:00	10.9	5.82	63.4
10/19/2006	0:45:00	10.8	5.84	63.6
10/19/2006	1:00:00	10.7	5.88	63.9
10/19/2006	1:15:00	10.6	5.91	64.1
10/19/2006	1:30:00	10.5	5.93	64.1
10/19/2006	1:45:00	10.4	5.99	64.7
10/19/2006	2:00:00	10.4	6.04	65.2
10/19/2006	2:15:00	10.4	6.08	65.6
10/19/2006	2:30:00	10.3	6.09	65.6
10/19/2006	2:45:00	10.2	6.13	65.8
10/19/2006	3:00:00	10.2	6.19	66.5
10/19/2006	3:15:00	10.2	6.21	66.6
10/19/2006	3:30:00	10.1	6.24	66.9
10/19/2006	3:45:00	10.1	6.28	67.2
10/19/2006	4:00:00	10.0	6.30	67.4
10/19/2006	4:15:00	9.9	6.34	67.6
10/19/2006	4:30:00	9.9	6.36	67.7
10/19/2006	4:45:00	9.7	6.39	67.9
10/19/2006	5:00:00	9.6	6.41	67.8
10/19/2006	5:15:00	9.6	6.44	68.1
10/19/2006	5:30:00	9.5	6.46	68.1
10/19/2006	5:45:00	9.3	6.50	68.4
10/19/2006	6:00:00	9.2	6.52	68.3
10/19/2006	6:15:00	9.1	6.55	68.4

Table 5.15. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/19/2006	6:30:00	8.9	6.57	68.4
10/19/2006	6:45:00	8.8	6.59	68.5
10/19/2006	7:00:00	8.8	6.62	68.7
10/19/2006	7:15:00	8.7	6.63	68.6
10/19/2006	7:30:00	8.7	6.66	68.8
10/19/2006	7:45:00	8.6	6.67	68.9
10/19/2006	8:00:00	8.6	6.69	69.1
10/19/2006	8:15:00	8.6	6.71	69.3
10/19/2006	8:30:00	8.7	6.77	70.1
10/19/2006	8:45:00	8.9	6.81	70.9
10/19/2006	9:00:00	9.1	6.84	71.5
10/19/2006	9:15:00	9.4	6.88	72.4
10/19/2006	9:30:00	9.7	6.90	73.2
10/19/2006	9:45:00	10.0	6.91	73.9
10/19/2006	10:00:00	10.4	6.92	74.7
10/19/2006	10:15:00	10.8	6.95	75.7
10/19/2006	10:30:00	11.3	6.98	76.8
10/19/2006	10:45:00	11.8	6.99	77.9
10/19/2006	11:00:00	12.3	7.00	78.8
10/19/2006	11:15:00	12.7	7.01	79.7
10/19/2006	11:30:00	13.3	7.01	80.8
10/19/2006	11:45:00	13.7	6.99	81.4
10/19/2006	12:00:00	14.2	6.99	82.2
10/19/2006	12:15:00	14.6	6.98	82.8
10/19/2006	12:30:00	15.0	6.96	83.3

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**S3_Lunas_10_13_06**
Setup	**Date**	**(MMDDYY)**	**:**	**101206**
Setup	**Time**	**(HHMMSS)**	**:**	**181937**
Starting	**Date**	**(MMDDYY)**	**:**	**101306**
Starting	**Time**	**(HHMMSS)**	**:**	**120000**
Stopping	**Date**	**(MMDDYY)**	**:**	**102006**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Monitoring	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**100**

***Meter was not programed to collect dissolved oxygen data, only dissolved oxygen saturation. Used DO saturation, barometric pressure - 636 mm Hg, and temperature with DO Tables for DO calculation.

Date (MMDDYY)	Time (HHMMSS)	Temp (C)	SpCond (uS/cm)	pH (Std Units)	***DO Calculated (mg/L)	DO Saturation (%)
10/13/2006	17:45:00	17.2	360	8.26	6.75	87.7
10/13/2006	18:00:00	17.2	334	8.25	6.71	87.3
10/13/2006	18:15:00	17.2	323	8.26	6.66	86.7
10/13/2006	18:30:00	17.2	329	8.25	6.67	86.9
10/13/2006	18:45:00	17.2	320	8.26	6.65	86.6
10/13/2006	19:00:00	17.3	323	8.23	6.69	87.2
10/13/2006	19:15:00	17.3	330	8.24	6.64	86.5
10/13/2006	19:30:00	17.2	351	8.24	6.62	86.3
10/13/2006	19:45:00	17.2	311	8.24	6.59	85.9
10/13/2006	20:00:00	17.2	307	8.25	6.57	85.5
10/13/2006	20:15:00	17.2	307	8.24	6.58	85.7
10/13/2006	20:30:00	17.2	297	8.24	6.45	84.0
10/13/2006	20:45:00	17.3	297	8.24	6.40	83.4
10/13/2006	21:00:00	17.3	298	8.25	6.41	83.5
10/13/2006	21:15:00	17.3	298	8.25	6.45	84.1
10/13/2006	21:30:00	17.3	299	8.24	6.47	84.3
10/13/2006	21:45:00	17.3	299	8.23	6.45	84.1
10/13/2006	22:00:00	17.2	298	8.26	6.44	83.9
10/13/2006	22:15:00	17.2	299	8.24	6.44	83.8
10/13/2006	22:30:00	17.2	298	8.23	6.37	82.9
10/13/2006	22:45:00	17.2	298	8.22	6.37	82.9
10/13/2006	23:45:00	17.0	300	8.22	6.42	83.1
10/14/2006	0:00:00	17.0	300	8.22	6.42	83.0
10/14/2006	0:15:00	16.9	301	8.22	6.41	82.8
10/14/2006	0:30:00	16.9	302	8.22	6.45	83.2
10/14/2006	1:00:00	16.8	303	8.22	6.48	83.3
10/14/2006	1:15:00	16.7	303	8.22	6.45	82.8
10/14/2006	1:30:00	16.6	303	8.22	6.46	82.7
10/14/2006	1:45:00	16.6	303	8.22	6.48	82.9
10/14/2006	2:00:00	16.5	302	8.21	6.44	82.2

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/14/2006	2:15:00	16.5	303	8.21	6.43	82.0
10/14/2006	2:30:00	16.4	304	8.22	6.50	82.7
10/14/2006	2:45:00	16.3	303	8.22	6.50	82.5
10/14/2006	3:00:00	16.3	303	8.22	6.48	82.2
10/14/2006	3:15:00	16.2	304	8.22	6.50	82.3
10/14/2006	3:30:00	16.2	304	8.21	6.55	82.8
10/14/2006	3:45:00	16.1	303	8.22	6.52	82.3
10/14/2006	4:00:00	16.1	303	8.23	6.54	82.5
10/14/2006	4:15:00	16.0	303	8.23	6.55	82.4
10/14/2006	4:30:00	16.0	302	8.22	6.53	82.1
10/14/2006	4:45:00	15.9	302	8.22	6.59	82.8
10/14/2006	5:00:00	15.9	304	8.21	6.59	82.7
10/14/2006	5:15:00	15.8	300	8.21	6.63	83.0
10/14/2006	5:30:00	15.8	304	8.21	6.57	82.2
10/14/2006	5:45:00	15.7	308	8.21	6.69	83.6
10/14/2006	6:00:00	15.7	308	8.21	6.67	83.3
10/14/2006	6:15:00	15.6	305	8.22	6.67	83.1
10/14/2006	6:30:00	15.6	307	8.21	6.64	82.6
10/14/2006	6:45:00	15.5	308	8.21	6.74	83.7
10/14/2006	7:00:00	15.5	310	8.22	6.72	83.4
10/14/2006	7:15:00	15.4	308	8.22	6.71	83.1
10/14/2006	7:30:00	15.4	303	8.21	6.77	83.8
10/14/2006	7:45:00	15.3	304	8.22	6.76	83.5
10/14/2006	8:00:00	15.3	306	8.22	6.76	83.5
10/14/2006	8:15:00	15.2	302	8.22	6.72	82.9
10/14/2006	8:30:00	15.2	304	8.22	6.76	83.3
10/14/2006	8:45:00	15.2	302	8.23	6.78	83.4
10/14/2006	9:00:00	15.1	305	8.23	6.81	83.7
10/14/2006	9:15:00	15.1	308	8.22	6.82	83.8
10/14/2006	9:30:00	15.1	310	8.23	6.79	83.3
10/14/2006	9:45:00	15.0	307	8.21	6.78	83.2
10/14/2006	10:00:00	15.0	311	8.22	6.78	83.2
10/14/2006	10:15:00	15.0	319	8.22	6.80	83.3
10/14/2006	10:30:00	15.0	329	8.22	6.83	83.7
10/14/2006	10:45:00	15.0	332	8.22	6.81	83.5
10/14/2006	11:00:00	15.0	323	8.23	6.82	83.6
10/14/2006	11:15:00	15.1	337	8.23	6.85	84.1
10/14/2006	11:30:00	15.1	333	8.23	6.82	83.8
10/14/2006	11:45:00	15.1	320	8.23	6.84	84.1
10/14/2006	12:00:00	15.1	328	8.23	6.89	84.7
10/14/2006	12:15:00	15.2	337	8.23	6.90	84.9
10/14/2006	12:30:00	15.2	344	8.23	6.95	85.6
10/14/2006	12:45:00	15.2	350	8.23	6.94	85.5
10/14/2006	13:00:00	15.2	352	8.24	6.97	85.9
10/14/2006	13:15:00	15.2	355	8.24	6.97	85.9

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/14/2006	13:30:00	15.3	357	8.24	6.96	86.0
10/14/2006	14:30:00	15.4	361	8.26	7.00	86.8
10/14/2006	14:45:00	15.5	361	8.29	6.99	86.8
10/14/2006	15:00:00	15.5	360	8.27	6.94	86.3
10/14/2006	15:15:00	15.7	359	8.27	6.98	87.1
10/14/2006	15:30:00	15.6	358	8.25	6.97	86.9
10/14/2006	15:45:00	15.7	357	8.25	6.96	86.9
10/14/2006	16:00:00	15.6	357	8.25	6.96	86.7
10/14/2006	16:15:00	15.6	356	8.25	6.98	86.9
10/14/2006	16:30:00	15.6	356	8.26	6.96	86.7
10/14/2006	16:45:00	15.7	354	8.25	6.97	86.9
10/14/2006	17:00:00	15.7	354	8.25	6.93	86.5
10/14/2006	17:15:00	15.7	355	8.26	6.96	87.0
10/14/2006	17:30:00	15.7	354	8.25	6.95	86.8
10/14/2006	17:45:00	15.8	353	8.25	6.97	87.1
10/14/2006	18:00:00	15.8	353	8.26	6.92	86.7
10/14/2006	18:15:00	15.8	352	8.27	6.87	86.1
10/14/2006	18:30:00	15.8	351	8.27	6.91	86.5
10/14/2006	18:45:00	15.8	351	8.27	6.92	86.6
10/14/2006	19:00:00	15.8	350	8.28	6.93	86.7
10/14/2006	19:15:00	15.8	349	8.28	6.91	86.4
10/14/2006	19:30:00	15.7	347	8.28	6.84	85.5
10/14/2006	19:45:00	15.7	345	8.27	6.86	85.7
10/14/2006	20:00:00	15.7	343	8.26	6.87	85.7
10/14/2006	20:15:00	15.7	337	8.26	6.89	86.0
10/14/2006	20:30:00	15.7	297	8.27	6.87	85.7
10/14/2006	20:45:00	15.6	292	8.27	6.83	85.2
10/14/2006	21:00:00	15.7	272	8.26	6.83	85.2
10/14/2006	21:15:00	15.6	266	8.26	6.81	84.9
10/14/2006	21:30:00	15.6	279	8.27	6.86	85.5
10/14/2006	21:45:00	15.6	278	8.26	6.83	85.2
10/14/2006	22:00:00	15.6	271	8.26	6.81	84.9
10/14/2006	22:15:00	15.6	260	8.26	6.84	85.2
10/14/2006	22:30:00	15.6	232	8.26	6.81	84.8
10/14/2006	22:45:00	15.6	232	8.27	6.79	84.5
10/14/2006	23:00:00	15.6	218	8.26	6.80	84.6
10/14/2006	23:15:00	15.5	216	8.28	6.82	84.8
10/14/2006	23:30:00	15.5	216	8.27	6.85	85.1
10/14/2006	23:45:00	15.5	216	8.25	6.88	85.5
10/15/2006	0:00:00	15.5	217	8.24	6.86	85.2
10/15/2006	0:15:00	15.5	217	8.26	6.85	85.1
10/15/2006	0:30:00	15.5	217	8.25	6.79	84.4
10/15/2006	0:45:00	15.5	217	8.25	6.79	84.4
10/15/2006	1:00:00	15.5	218	8.25	6.82	84.7
10/15/2006	1:15:00	15.5	218	8.27	6.77	84.1

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/15/2006	1:30:00	15.5	218	8.27	6.80	84.4
10/15/2006	2:00:00	15.5	219	8.25	6.81	84.6
10/15/2006	2:15:00	15.5	219	8.25	6.81	84.5
10/15/2006	2:30:00	15.4	220	8.25	6.82	84.5
10/15/2006	2:45:00	15.4	220	8.25	6.85	84.8
10/15/2006	3:00:00	15.4	220	8.25	6.82	84.4
10/15/2006	3:15:00	15.4	220	8.25	6.84	84.7
10/15/2006	3:30:00	15.3	221	8.24	6.80	84.1
10/15/2006	3:45:00	15.3	221	8.24	6.73	83.2
10/15/2006	4:00:00	15.3	221	8.24	6.79	83.9
10/15/2006	4:15:00	15.3	221	8.23	6.72	83.1
10/15/2006	5:15:00	15.3	222	8.23	6.76	83.5
10/15/2006	5:30:00	15.3	222	8.23	6.77	83.6
10/15/2006	5:45:00	15.3	221	8.22	6.79	83.8
10/15/2006	6:00:00	15.3	221	8.22	6.83	84.3
10/15/2006	6:15:00	15.2	221	8.22	6.76	83.4
10/15/2006	6:30:00	15.2	222	8.22	6.80	83.8
10/15/2006	6:45:00	15.2	222	8.22	6.79	83.7
10/15/2006	7:00:00	15.2	222	8.22	6.79	83.6
10/15/2006	7:15:00	15.2	222	8.22	6.75	83.1
10/15/2006	7:30:00	15.2	222	8.21	6.73	82.8
10/15/2006	7:45:00	15.2	222	8.21	6.69	82.3
10/15/2006	8:00:00	15.1	221	8.22	6.76	83.1
10/15/2006	8:15:00	15.1	221	8.21	6.78	83.3
10/15/2006	8:30:00	15.1	221	8.21	6.81	83.7
10/15/2006	8:45:00	15.1	221	8.22	6.80	83.4
10/15/2006	9:00:00	15.0	221	8.21	6.76	82.9
10/15/2006	9:15:00	15.0	221	8.21	6.69	82.1
10/15/2006	9:30:00	15.0	221	8.20	6.80	83.4
10/15/2006	9:45:00	15.0	221	8.21	6.77	83.1
10/15/2006	10:00:00	15.1	221	8.21	6.71	82.4
10/15/2006	10:15:00	15.1	221	8.21	6.73	82.6
10/15/2006	10:30:00	15.1	222	8.21	6.77	83.3
10/15/2006	10:45:00	15.2	222	8.21	6.74	83.1
10/15/2006	11:00:00	15.3	222	8.21	6.74	83.2
10/15/2006	11:15:00	15.4	222	8.20	6.69	82.8
10/15/2006	11:30:00	15.5	222	8.20	6.67	82.7
10/15/2006	11:45:00	15.6	222	8.21	6.79	84.4
10/15/2006	12:00:00	15.7	223	8.21	6.72	83.9
10/15/2006	12:15:00	15.8	223	8.21	6.71	84.0
10/15/2006	12:30:00	15.9	223	8.21	6.65	83.4
10/15/2006	12:45:00	15.9	223	8.21	6.67	83.8
10/15/2006	13:00:00	16.0	223	8.21	6.57	82.6
10/15/2006	13:15:00	16.0	223	8.20	6.50	81.8
10/15/2006	13:30:00	16.0	221	8.20	6.66	83.8

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/15/2006	13:45:00	16.2	220	8.21	6.63	83.9
10/15/2006	14:00:00	16.3	221	8.21	6.59	83.6
10/15/2006	14:15:00	16.3	222	8.21	6.54	83.1
10/15/2006	14:30:00	16.3	222	8.20	6.55	83.1
10/15/2006	14:45:00	16.3	222	8.20	6.58	83.4
10/15/2006	15:00:00	16.2	221	8.20	6.55	83.0
10/15/2006	15:15:00	16.2	221	8.15	3.97*	50.3
10/15/2006	15:30:00	16.2	221	8.14	2.87	36.3
10/15/2006	15:45:00	16.2	222	8.12	2.61	33.0
10/15/2006	16:00:00	16.2	222	8.11	2.84	35.9
10/15/2006	16:15:00	16.2	222	8.10	2.61	33.0
10/15/2006	16:30:00	16.2	223	8.09	2.43	30.8
10/15/2006	16:45:00	16.2	223	8.07	1.98	25.1
10/15/2006	17:00:00	16.2	223	8.05	1.81	22.9
10/15/2006	17:15:00	16.1	223	8.04	1.65	20.8
10/15/2006	17:30:00	16.1	224	8.03	1.58	20.0
10/15/2006	17:45:00	16.1	224	8.02	1.43	18.1
10/15/2006	18:00:00	16.2	225	8.00	1.31	16.6
10/15/2006	18:15:00	16.2	225	7.99	1.42	18.0
10/15/2006	18:30:00	16.2	225	7.98	1.32	16.7
10/15/2006	18:45:00	16.2	225	7.98	1.34	17.0
10/15/2006	19:00:00	16.1	225	7.97	1.27	16.1
10/15/2006	20:00:00	16.1	226	7.94	1.18	14.9
10/15/2006	20:15:00	16.1	226	7.94	1.08	13.6
10/15/2006	20:30:00	16.1	226	7.93	1.17	14.8
10/15/2006	20:45:00	16.1	227	7.92	1.12	14.1
10/15/2006	21:00:00	16.1	227	7.92	1.03	13.0
10/15/2006	21:15:00	16.1	227	7.91	0.96	12.1
10/15/2006	21:30:00	16.1	227	7.90	0.80	10.1
10/15/2006	21:45:00	16.1	227	7.90	0.86	10.9
10/15/2006	22:00:00	16.1	227	7.89	0.90	11.4
10/15/2006	22:15:00	16.1	227	7.89	0.84	10.6
10/15/2006	22:30:00	16.1	228	7.88	0.82	10.3
10/15/2006	22:45:00	16.1	228	7.88	0.81	10.2
10/15/2006	23:00:00	16.1	228	7.88	0.68	8.6
10/15/2006	23:15:00	16.1	228	7.87	0.79	10.0
10/15/2006	23:30:00	16.1	228	7.87	0.72	9.1
10/15/2006	23:45:00	16.0	228	7.86	0.78	9.8
10/16/2006	0:00:00	16.0	228	7.86	0.83	10.5
10/16/2006	0:15:00	16.0	228	7.86	0.73	9.2
10/16/2006	0:30:00	16.0	228	7.86	0.68	8.6
10/16/2006	0:45:00	16.0	228	7.85	0.64	8.0
10/16/2006	1:00:00	16.0	228	7.85	0.68	8.6
10/16/2006	1:15:00	16.0	228	7.85	0.66	8.3
10/16/2006	1:30:00	16.0	228	7.85	0.61	7.7

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/16/2006	1:45:00	16.0	228	7.85	0.62	7.8
10/16/2006	2:00:00	16.0	229	7.85	0.60	7.5
10/16/2006	2:15:00	16.0	229	7.85	0.58	7.3
10/16/2006	2:30:00	15.9	229	7.85	0.56	7.1
10/16/2006	2:45:00	15.9	229	7.85	0.59	7.4
10/16/2006	3:00:00	15.9	229	7.84	0.47	5.9
10/16/2006	3:15:00	15.9	229	7.83	0.48	6.0
10/16/2006	3:45:00	15.9	229	7.84	0.62	7.8
10/16/2006	4:00:00	15.9	229	7.84	0.58	7.3
10/16/2006	4:15:00	15.9	229	7.83	0.47	5.9
10/16/2006	4:30:00	15.8	229	7.83	0.42	5.2
10/16/2006	4:45:00	15.8	229	7.83	0.38	4.7
10/16/2006	5:00:00	15.8	229	7.83	0.38	4.8
10/16/2006	5:15:00	15.8	229	7.83	0.44	5.5
10/16/2006	5:30:00	15.8	229	7.83	0.36	4.5
10/16/2006	5:45:00	15.7	230	7.84	0.25	3.1
10/16/2006	6:00:00	15.6	230	7.82	0.20	2.5
10/16/2006	6:15:00	15.5	230	7.82	0.29	3.6
10/16/2006	6:30:00	15.5	230	7.82	0.28	3.5
10/16/2006	6:45:00	15.5	230	7.83	0.27	3.3
10/16/2006	7:00:00	15.5	230	7.82	0.20	2.5
10/16/2006	7:15:00	15.4	230	7.82	0.18	2.2
10/16/2006	7:30:00	15.4	230	7.81	0.12	1.5
10/16/2006	7:45:00	15.3	230	7.81	0.14	1.7
10/16/2006	8:00:00	15.3	230	7.80	0.13	1.6
10/16/2006	8:15:00	15.3	230	7.80	0.11	1.4
10/16/2006	8:30:00	15.3	230	7.80	0.12	1.5
10/16/2006	8:45:00	15.2	230	7.80	0.14	1.7
10/16/2006	9:00:00	15.2	230	7.81	0.16	2.0
10/16/2006	9:15:00	15.2	230	7.80	0.11	1.3
10/16/2006	9:30:00	15.0	231	7.80	0.13	1.6
10/16/2006	9:45:00	13.7	305	8.12	6.84*	81.1
10/16/2006	10:45:00	13.8	151	8.21	7.19	85.5
10/16/2006	11:00:00	13.9	151	8.22	7.16	85.3
10/16/2006	11:15:00	14.0	151	8.23	7.13	85.1
10/16/2006	11:30:00	14.1	151	8.23	7.02	84.0
10/16/2006	11:45:00	14.2	151	8.23	7.13	85.6
10/16/2006	12:00:00	14.3	152	8.23	7.11	85.7
10/16/2006	12:15:00	14.5	340	8.23	7.17	86.7
10/16/2006	12:30:00	14.6	288	8.23	7.18	87.1
10/16/2006	12:45:00	14.8	249	8.24	7.04	85.8
10/16/2006	13:00:00	14.9	199	8.25	7.10	86.9
10/16/2006	13:15:00	15.1	187	8.26	6.95	85.4
10/16/2006	13:30:00	15.3	187	8.26	6.86	84.7
10/16/2006	13:45:00	15.5	188	8.26	6.76	84.0

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/16/2006	14:00:00	15.7	188	8.26	6.74	84.2
10/16/2006	14:15:00	15.9	188	8.26	6.69	84.1
10/16/2006	14:30:00	16.1	189	8.26	6.58	83.1
10/16/2006	14:45:00	16.3	189	8.26	6.56	83.3
10/16/2006	15:00:00	16.6	189	8.24	6.50	83.1
10/16/2006	15:15:00	16.8	190	8.24	6.37	81.9
10/16/2006	15:30:00	16.9	190	8.22	6.32	81.6
10/16/2006	15:45:00	17.1	190	8.22	6.30	81.6
10/16/2006	16:00:00	17.1	190	8.22	6.32	82.0
10/16/2006	16:15:00	17.2	189	8.22	6.32	82.1
10/16/2006	16:30:00	17.2	188	8.22	6.35	82.6
10/16/2006	16:45:00	17.2	188	8.22	6.36	82.9
10/16/2006	17:00:00	17.3	187	8.22	6.40	83.5
10/16/2006	17:15:00	17.3	187	8.22	6.38	83.2
10/16/2006	17:30:00	17.3	187	8.22	6.33	82.7
10/16/2006	17:45:00	17.3	187	8.22	6.38	83.2
10/16/2006	18:00:00	17.3	187	8.21	6.30	82.2
10/16/2006	18:15:00	17.3	187	8.21	6.29	82.0
10/16/2006	18:30:00	17.2	187	8.21	6.27	81.7
10/16/2006	18:45:00	17.2	187	8.21	6.26	81.3
10/16/2006	19:00:00	17.1	187	8.21	6.29	81.7
10/16/2006	19:15:00	17.1	187	8.21	6.25	81.0
10/16/2006	19:30:00	17.0	187	8.21	6.20	80.3
10/16/2006	19:45:00	16.9	187	8.22	6.22	80.4
10/16/2006	20:00:00	16.9	187	8.22	6.19	79.8
10/16/2006	20:15:00	16.8	187	8.22	6.15	79.2
10/16/2006	20:30:00	16.8	187	8.22	6.12	78.7
10/16/2006	20:45:00	16.7	188	8.22	6.17	79.2
10/16/2006	21:00:00	16.6	188	8.23	6.24	79.9
10/16/2006	21:15:00	16.5	188	8.23	6.24	79.7
10/16/2006	21:30:00	16.5	188	8.23	6.27	79.9
10/16/2006	21:45:00	16.4	188	8.23	6.30	80.2
10/16/2006	22:00:00	16.4	187	8.22	6.29	80.0
10/16/2006	22:15:00	16.3	187	8.22	6.25	79.4
10/16/2006	22:30:00	16.3	187	8.22	6.27	79.6
10/16/2006	22:45:00	16.3	187	8.22	6.25	79.3
10/16/2006	23:00:00	16.3	187	8.21	6.22	78.9
10/16/2006	23:15:00	16.2	187	8.21	6.20	78.5
10/16/2006	23:30:00	16.2	187	8.21	6.23	78.8
10/16/2006	23:45:00	16.2	187	8.21	6.19	78.3
10/17/2006	0:00:00	16.1	188	8.21	6.23	78.6
10/17/2006	0:15:00	16.1	188	8.21	6.22	78.5
10/17/2006	0:30:00	16.0	188	8.21	6.20	78.2
10/17/2006	0:45:00	16.0	188	8.21	6.18	77.8
10/17/2006	1:00:00	16.0	188	8.21	6.21	78.2

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/17/2006	1:15:00	15.9	188	8.21	6.21	78.0
10/17/2006	1:30:00	15.9	188	8.21	6.21	77.9
10/17/2006	1:45:00	15.8	189	8.21	6.21	77.8
10/17/2006	2:00:00	15.7	189	8.20	6.19	77.4
10/17/2006	2:15:00	15.7	189	8.21	6.23	77.7
10/17/2006	2:30:00	15.6	189	8.20	6.20	77.2
10/17/2006	2:45:00	15.5	190	8.20	6.24	77.6
10/17/2006	3:00:00	15.4	190	8.20	6.25	77.5
10/17/2006	3:15:00	15.4	190	8.20	6.23	77.1
10/17/2006	3:30:00	15.3	190	8.19	6.25	77.2
10/17/2006	3:45:00	15.2	190	8.19	6.26	77.1
10/17/2006	4:00:00	15.1	190	8.19	6.26	77.0
10/17/2006	4:15:00	15.0	190	8.19	6.29	77.2
10/17/2006	4:30:00	15.0	190	8.19	6.30	77.2
10/17/2006	4:45:00	14.9	190	8.19	6.33	77.3
10/17/2006	5:00:00	14.8	191	8.20	6.34	77.3
10/17/2006	5:15:00	14.7	190	8.20	6.35	77.2
10/17/2006	5:30:00	14.6	191	8.20	6.34	76.9
10/17/2006	5:45:00	14.5	191	8.20	6.40	77.4
10/17/2006	6:00:00	14.4	191	8.20	6.39	77.1
10/17/2006	6:15:00	14.3	191	8.20	6.41	77.2
10/17/2006	6:30:00	14.2	191	8.20	6.43	77.2
10/17/2006	6:45:00	14.2	191	8.20	6.41	76.9
10/17/2006	7:00:00	14.1	191	8.20	6.43	77.0
10/17/2006	7:15:00	14.0	191	8.20	6.43	76.8
10/17/2006	7:30:00	13.9	191	8.20	6.46	76.9
10/17/2006	7:45:00	13.8	191	8.21	6.46	76.7
10/17/2006	8:00:00	13.7	191	8.21	6.44	76.4
10/17/2006	8:15:00	13.7	191	8.21	6.43	76.2
10/17/2006	8:30:00	13.6	191	8.22	6.37	75.4
10/17/2006	8:45:00	13.5	191	8.21	6.33	74.7
10/17/2006	9:00:00	13.5	192	8.21	6.41	75.5
10/17/2006	9:15:00	13.5	192	8.21	6.26	73.8
10/17/2006	9:30:00	13.6	192	8.21	6.06	71.5
10/17/2006	9:45:00	13.6	192	8.20	5.83	69.0
10/17/2006	10:00:00	13.7	193	8.20	5.86	69.5
10/17/2006	10:15:00	13.8	193	8.19	5.84	69.4
10/17/2006	10:30:00	14.0	193	8.18	5.80	69.2
10/17/2006	10:45:00	14.1	193	8.17	5.66	67.7
10/17/2006	11:00:00	14.2	194	8.16	5.51	66.1
10/17/2006	11:15:00	14.4	194	8.16	5.53	66.6
10/17/2006	11:30:00	14.4	195	8.15	5.52	66.5
10/17/2006	11:45:00	14.7	194	8.15	5.47	66.4
10/17/2006	12:00:00	14.6	196	8.16	5.42	65.7
10/17/2006	12:15:00	15.0	196	8.17	5.39	66.0

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/17/2006	12:30:00	15.3	196	8.18	5.35	66.2
10/17/2006	12:45:00	15.4	197	8.19	5.38	66.6
10/17/2006	13:00:00	15.7	198	8.19	5.35	66.8
10/17/2006	13:15:00	16.0	199	8.20	5.94	74.7
10/17/2006	13:30:00	16.1	199	8.20	5.97	75.3
10/17/2006	13:45:00	16.0	201	8.21	6.38	80.3
10/17/2006	14:00:00	16.4	201	8.22	6.47	82.4
10/17/2006	14:15:00	16.4	203	8.56	6.71	85.5
10/17/2006	14:30:00	15.8	205	8.76	7.24	90.6
10/17/2006	14:45:00	16.5	204	8.65	6.74	86.0
10/17/2006	15:00:00	17.2	205	8.81	6.67	86.7
10/17/2006	15:15:00	17.5	204	8.48	6.55	86.0
10/17/2006	15:30:00	16.5	208	8.33	7.22	92.1
10/17/2006	15:45:00	16.6	208	8.32	7.27	93.1
10/17/2006	16:00:00	16.6	208	8.16	7.29	93.4
10/17/2006	16:15:00	16.2	210	8.00	7.43	93.9
10/17/2006	16:30:00	16.0	209	7.91	7.52	94.7
10/17/2006	16:45:00	15.6	208	7.89	7.51	93.5
10/17/2006	17:00:00	15.7	208	7.86	7.40	92.4
10/17/2006	17:15:00	15.6	207	7.93	7.28	90.6
10/17/2006	17:30:00	15.3	207	7.90	7.30	90.2
10/17/2006	17:45:00	15.6	206	8.09	7.10	88.5
10/17/2006	18:00:00	14.7	209	8.05	7.47	90.8
10/17/2006	18:15:00	14.3	209	8.06	7.64	92.0
10/17/2006	18:30:00	13.8	209	8.05	7.72	91.7
10/17/2006	18:45:00	13.5	208	8.00	7.76	91.5
10/17/2006	19:00:00	13.0	208	8.12	8.18	95.1
10/17/2006	19:15:00	12.7	207	7.99	8.12	93.8
10/17/2006	19:30:00	12.1	207	8.04	8.33	94.7
10/17/2006	19:45:00	11.8	206	7.95	8.48	95.9
10/17/2006	20:00:00	11.3	205	8.07	8.56	95.6
10/17/2006	20:15:00	11.2	204	8.06	8.55	95.2
10/17/2006	20:30:00	11.1	204	8.11	8.29	92.2
10/17/2006	20:45:00	11.1	204	8.12	8.35	92.8
10/17/2006	21:00:00	11.0	204	8.09	8.43	93.4
10/17/2006	21:15:00	10.6	205	8.06	8.40	92.2
10/17/2006	21:30:00	10.6	204	8.10	8.31	91.1
10/17/2006	21:45:00	10.6	204	8.09	8.05	88.3
10/17/2006	22:00:00	10.5	204	8.08	7.99	87.5
10/17/2006	22:15:00	10.5	204	8.10	7.89	86.3
10/17/2006	22:30:00	10.7	204	8.11	7.62	83.8
10/17/2006	22:45:00	11.4	204	8.15	7.18	80.2
10/17/2006	23:00:00	11.7	204	8.19	7.03	79.2
10/17/2006	23:15:00	12.1	204	7.95	6.42	73.0
10/17/2006	23:30:00	12.3	204	7.87	6.55	75.0

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/17/2006	23:45:00	12.5	204	7.91	6.57	75.4
10/18/2006	0:00:00	12.5	204	8.04	6.29	72.3
10/18/2006	0:15:00	12.9	204	8.14	6.05	70.2
10/18/2006	0:30:00	13.3	204	8.23	5.42	63.6
10/18/2006	0:45:00	13.2	204	8.28	5.68	66.5
10/18/2006	1:00:00	13.3	204	8.30	5.42	63.5
10/18/2006	1:15:00	13.2	205	8.35	5.41	63.4
10/18/2006	1:30:00	13.3	205	8.39	5.29	62.0
10/18/2006	1:45:00	13.3	205	8.45	5.41	63.5
10/18/2006	2:00:00	13.5	205	8.46	5.43	63.9
10/18/2006	2:15:00	13.5	205	8.53	5.47	64.5
10/18/2006	2:30:00	13.5	205	8.56	5.32	62.8
10/18/2006	2:45:00	13.6	205	8.60	5.37	63.4
10/18/2006	3:00:00	13.6	205	8.65	5.58	65.9
10/18/2006	3:15:00	13.5	205	8.67	5.54	65.3
10/18/2006	3:30:00	13.5	205	8.68	5.39	63.5
10/18/2006	3:45:00	13.4	205	8.69	5.38	63.2
10/18/2006	4:00:00	13.4	205	8.69	5.33	62.6
10/18/2006	4:15:00	13.3	205	8.68	5.33	62.6
10/18/2006	4:30:00	13.1	205	8.67	5.35	62.5
10/18/2006	4:45:00	13.0	205	8.68	5.39	62.8
10/18/2006	5:00:00	13.0	205	8.67	5.43	63.2
10/18/2006	5:15:00	13.0	205	8.67	5.40	62.8
10/18/2006	5:30:00	13.0	205	8.68	5.37	62.5
10/18/2006	5:45:00	12.9	205	8.65	5.69	66.0
10/18/2006	6:00:00	12.7	205	8.63	5.62	64.9
10/18/2006	6:15:00	12.6	205	8.63	5.59	64.4
10/18/2006	6:30:00	12.3	206	8.63	5.58	63.9
10/18/2006	6:45:00	12.3	205	8.63	5.53	63.2
10/18/2006	7:00:00	12.2	205	8.62	5.57	63.6
10/18/2006	7:15:00	12.2	205	8.61	5.63	64.3
10/18/2006	7:30:00	12.3	205	8.60	5.68	65.0
10/18/2006	7:45:00	12.0	205	8.60	5.67	64.4
10/18/2006	8:00:00	11.7	205	8.59	5.61	63.3
10/18/2006	8:15:00	11.8	205	8.58	5.57	62.9
10/18/2006	8:30:00	11.6	204	8.58	5.63	63.3
10/18/2006	8:45:00	11.7	205	8.58	5.68	64.0
10/18/2006	9:00:00	11.8	205	8.57	5.62	63.4
10/18/2006	9:15:00	11.9	205	8.56	5.54	62.8
10/18/2006	9:30:00	11.9	205	8.56	5.63	63.8
10/18/2006	9:45:00	12.1	205	8.55	5.63	64.1
10/18/2006	10:00:00	11.9	206	8.54	5.64	63.9
10/18/2006	10:15:00	11.9	205	8.53	5.66	64.1
10/18/2006	10:30:00	12.0	205	8.52	6.47	73.4
10/18/2006	10:45:00	12.3	206	8.51	6.43	73.6

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/18/2006	11:00:00	12.8	206	8.51	6.33	73.3
10/18/2006	11:15:00	13.4	206	8.50	6.31	74.1
10/18/2006	11:30:00	13.9	206	8.50	6.05	72.1
10/18/2006	11:45:00	14.2	206	8.50	6.34	76.2
10/18/2006	12:00:00	14.5	207	8.49	6.32	76.3
10/18/2006	12:15:00	15.0	207	8.48	6.30	77.2
10/18/2006	12:30:00	15.7	207	8.46	6.13	76.5
10/18/2006	12:45:00	15.9	208	8.47	6.08	76.3
10/18/2006	13:00:00	16.4	208	8.47	6.24	79.4
10/18/2006	13:15:00	17.0	208	8.53	6.20	80.3
10/18/2006	13:30:00	17.3	208	8.53	6.08	79.3
10/18/2006	13:45:00	17.1	209	8.70	6.15	79.7
10/18/2006	14:00:00	16.8	208	8.60	6.44	82.9
10/18/2006	14:15:00	16.1	211	8.68	6.57	83.0
10/18/2006	14:30:00	16.0	211	8.70	6.80	85.7
10/18/2006	14:45:00	16.2	210	8.68	6.65	84.2
10/18/2006	15:00:00	15.0	210	8.77	6.69	82.0
10/18/2006	15:15:00	15.2	209	8.76	6.84	84.2
10/18/2006	15:30:00	14.8	208	8.74	7.08	86.4
10/18/2006	15:45:00	14.9	207	8.70	6.89	84.3
10/18/2006	16:00:00	15.4	207	8.73	6.94	86.0
10/18/2006	16:15:00	15.2	208	8.73	6.94	85.6
10/18/2006	16:30:00	14.7	209	8.73	6.98	84.9
10/18/2006	16:45:00	15.1	206	8.74	6.84	84.1
10/18/2006	17:00:00	15.2	206	8.72	6.96	85.8
10/18/2006	17:15:00	14.8	205	8.71	7.27	88.7
10/18/2006	17:30:00	13.4	208	8.78	7.83	92.1
10/18/2006	17:45:00	13.2	205	8.74	7.82	91.4
10/18/2006	18:00:00	12.8	204	8.79	7.87	91.2
10/18/2006	18:15:00	12.5	203	8.79	7.79	89.5
10/18/2006	18:30:00	12.5	202	8.82	7.44	85.5
10/18/2006	18:45:00	12.9	201	8.41	6.73	78.1
10/18/2006	19:00:00	13.5	200	8.48	5.71	67.4
10/18/2006	19:15:00	13.4	200	8.52	5.41	63.5
10/18/2006	19:30:00	14.1	200	8.51	5.65	67.6
10/18/2006	19:45:00	14.1	201	8.50	5.66	67.7
10/18/2006	20:00:00	13.8	200	8.49	5.55	65.9
10/18/2006	20:15:00	13.7	201	8.47	5.55	65.7
10/18/2006	20:30:00	13.5	201	8.46	5.73	67.6
10/18/2006	20:45:00	13.3	202	8.45	5.64	66.1
10/18/2006	21:00:00	13.2	201	8.44	5.77	67.5
10/18/2006	21:15:00	13.3	201	8.43	5.78	67.8
10/18/2006	21:30:00	13.4	200	8.41	5.93	69.6
10/18/2006	21:45:00	13.4	199	8.41	5.94	69.8
10/18/2006	22:00:00	13.3	198	8.40	6.02	70.6

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/18/2006	22:15:00	13.4	197	8.39	6.08	71.6
10/18/2006	22:30:00	13.5	197	8.38	5.95	70.1
10/18/2006	22:45:00	13.5	196	8.38	5.98	70.5
10/18/2006	23:00:00	13.3	196	8.38	5.97	70.0
10/18/2006	23:15:00	13.1	196	8.37	6.03	70.4
10/18/2006	23:30:00	13.0	195	8.36	6.01	69.9
10/18/2006	23:45:00	12.8	195	8.36	5.92	68.6
10/19/2006	0:00:00	12.6	195	8.36	6.01	69.3
10/19/2006	0:15:00	12.5	195	8.35	5.88	67.7
10/19/2006	0:30:00	12.4	195	8.35	6.01	69.0
10/19/2006	0:45:00	12.3	195	8.35	6.09	69.7
10/19/2006	1:00:00	12.3	195	8.34	6.18	70.7
10/19/2006	1:15:00	12.3	194	8.34	6.05	69.3
10/19/2006	1:30:00	12.3	195	8.33	6.14	70.2
10/19/2006	1:45:00	12.2	195	8.33	6.16	70.3
10/19/2006	2:00:00	12.0	195	8.33	6.20	70.4
10/19/2006	2:15:00	12.1	195	8.33	6.13	69.7
10/19/2006	2:30:00	12.0	195	8.32	6.20	70.3
10/19/2006	2:45:00	11.9	195	8.32	6.20	70.2
10/19/2006	3:00:00	11.7	195	8.32	6.07	68.4
10/19/2006	3:15:00	11.7	195	8.31	6.13	69.1
10/19/2006	3:30:00	11.7	196	8.31	6.20	69.9
10/19/2006	3:45:00	11.7	196	8.31	6.20	70.0
10/19/2006	4:00:00	11.6	196	8.31	6.25	70.3
10/19/2006	4:15:00	11.5	197	8.30	6.29	70.5
10/19/2006	4:30:00	11.4	197	8.31	6.28	70.2
10/19/2006	4:45:00	11.3	197	8.29	6.29	70.2
10/19/2006	5:00:00	11.1	197	8.30	6.27	69.7
10/19/2006	5:15:00	11.2	197	8.30	6.27	69.8
10/19/2006	5:30:00	11.1	198	8.29	6.32	70.1
10/19/2006	5:45:00	10.9	198	8.29	6.35	70.3
10/19/2006	6:00:00	10.9	197	8.29	6.41	70.8
10/19/2006	6:15:00	10.8	198	8.29	6.33	69.8
10/19/2006	6:30:00	10.7	198	8.29	6.41	70.6
10/19/2006	6:45:00	10.7	198	8.28	6.28	69.1
10/19/2006	7:00:00	10.6	198	8.28	6.33	69.6
10/19/2006	7:15:00	10.6	198	8.28	6.44	70.7
10/19/2006	7:30:00	10.5	198	8.28	6.36	69.6
10/19/2006	7:45:00	10.5	198	8.27	6.35	69.5
10/19/2006	8:00:00	10.4	198	8.27	6.38	69.6
10/19/2006	8:15:00	10.2	198	8.27	6.41	69.7
10/19/2006	8:30:00	10.1	198	8.27	6.41	69.6
10/19/2006	8:45:00	10.1	198	8.26	6.50	70.5
10/19/2006	9:00:00	10.1	198	8.26	6.53	70.8
10/19/2006	9:15:00	10.2	198	8.26	6.52	70.9

Table 5.16. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; *** DO Calculated (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), measured percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/19/2006	9:30:00	10.3	198	8.26	6.51	70.9
10/19/2006	9:45:00	10.4	198	8.26	6.60	72.2
10/19/2006	10:00:00	10.7	198	8.26	6.57	72.2
10/19/2006	10:15:00	11.0	198	8.26	6.57	72.8
10/19/2006	10:30:00	11.3	199	8.26	6.58	73.4
10/19/2006	10:45:00	11.6	199	8.26	6.57	73.8
10/19/2006	11:00:00	11.9	199	8.25	6.51	73.7
10/19/2006	11:15:00	12.2	199	8.25	6.51	74.3
10/19/2006	11:30:00	12.7	199	8.25	6.49	74.9
10/19/2006	11:45:00	12.8	200	8.24	6.38	73.9
10/19/2006	12:00:00	13.2	200	8.24	6.40	74.8
10/19/2006	12:15:00	13.5	200	8.24	6.42	75.6
10/19/2006	12:30:00	13.9	200	8.23	6.32	75.2
10/19/2006	12:45:00	14.1	201	8.23	6.27	75.0
10/19/2006	13:00:00	14.5	201	8.23	6.32	76.4
10/19/2006	13:15:00	14.7	201	8.22	6.30	76.6
10/19/2006	13:30:00	14.9	202	8.22	6.20	75.8
10/19/2006	13:45:00	15.2	201	8.21	6.11	75.3

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS		
Report generated:	7/31/2007	11:21:26	
Report from file:	...\SN45475 2006-10-13 180000 s5lajoya10_13_06.bin		
Win-Situ Version	4.55.3.0		
Serial number:	45475		
Firmware Version	1.58		
Unit name:	Athena		
Barometric Pressure:		633.624	
Test defined on:	10/13/2006	15:13:13	
Test scheduled for:	10/13/2006	18:00:00	
Test started on:	10/13/2006	18:00:00	
Test stopped on:		abend	
Data gathered using linear testing			
Time between data points		900 seconds	
Number of data samples:		459	

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/13/2006	18:00:00	16.9	7.73	96.1
10/13/2006	18:15:00	16.9	7.77	96.6
10/13/2006	18:30:00	17.0	7.77	96.7
10/13/2006	18:45:00	17.0	7.76	96.6
10/13/2006	19:00:00	17.0	7.76	96.5
10/13/2006	19:15:00	17.0	7.75	96.5
10/13/2006	19:30:00	17.0	7.75	96.4
10/13/2006	19:45:00	17.0	7.74	96.4
10/13/2006	20:00:00	17.0	7.73	96.3
10/13/2006	20:15:00	17.0	7.73	96.2
10/13/2006	20:30:00	16.9	7.72	96.1
10/13/2006	20:45:00	16.9	7.72	96.0
10/13/2006	21:00:00	16.9	7.71	95.8
10/13/2006	21:15:00	16.9	7.71	95.7
10/13/2006	21:30:00	16.9	7.70	95.6
10/13/2006	21:45:00	16.8	7.70	95.5
10/13/2006	22:00:00	16.8	7.70	95.4
10/13/2006	22:15:00	16.7	7.70	95.3
10/13/2006	22:30:00	16.7	7.70	95.2
10/13/2006	22:45:00	16.6	7.70	95.0
10/13/2006	23:00:00	16.5	7.70	94.9
10/13/2006	23:15:00	16.5	7.70	94.9
10/13/2006	23:30:00	16.4	7.70	94.8
10/13/2006	23:45:00	16.4	7.70	94.7
10/14/2006	0:00:00	16.3	7.71	94.6
10/14/2006	0:15:00	16.3	7.71	94.6
10/14/2006	0:30:00	16.2	7.72	94.6
10/14/2006	0:45:00	16.2	7.72	94.5

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/14/2006	1:00:00	16.1	7.73	94.5
10/14/2006	1:15:00	16.1	7.73	94.4
10/14/2006	1:30:00	16.0	7.74	94.4
10/14/2006	1:45:00	16.0	7.74	94.3
10/14/2006	2:00:00	15.9	7.75	94.3
10/14/2006	2:15:00	15.9	7.75	94.3
10/14/2006	2:30:00	15.8	7.76	94.3
10/14/2006	2:45:00	15.8	7.77	94.3
10/14/2006	3:00:00	15.7	7.77	94.2
10/14/2006	3:15:00	15.7	7.78	94.2
10/14/2006	3:30:00	15.6	7.79	94.2
10/14/2006	3:45:00	15.6	7.79	94.2
10/14/2006	4:00:00	15.6	7.80	94.2
10/14/2006	4:15:00	15.5	7.80	94.2
10/14/2006	4:30:00	15.5	7.81	94.2
10/14/2006	4:45:00	15.5	7.81	94.2
10/14/2006	5:00:00	15.5	7.82	94.2
10/14/2006	5:15:00	15.4	7.82	94.2
10/14/2006	5:30:00	15.4	7.83	94.2
10/14/2006	5:45:00	15.4	7.83	94.3
10/14/2006	6:00:00	15.4	7.84	94.3
10/14/2006	6:15:00	15.4	7.84	94.3
10/14/2006	6:30:00	15.3	7.84	94.3
10/14/2006	6:45:00	15.3	7.85	94.3
10/14/2006	7:00:00	15.3	7.85	94.3
10/14/2006	7:15:00	15.3	7.85	94.3
10/14/2006	7:30:00	15.3	7.85	94.3
10/14/2006	7:45:00	15.3	7.86	94.3
10/14/2006	8:00:00	15.3	7.86	94.4
10/14/2006	8:15:00	15.3	7.86	94.4
10/14/2006	8:30:00	15.3	7.87	94.4
10/14/2006	8:45:00	15.3	7.87	94.5
10/14/2006	9:00:00	15.3	7.87	94.5
10/14/2006	9:15:00	15.3	7.88	94.6
10/14/2006	9:30:00	15.3	7.88	94.7
10/14/2006	9:45:00	15.4	7.88	94.8
10/14/2006	10:00:00	15.4	7.88	94.9
10/14/2006	10:15:00	15.4	7.89	94.9
10/14/2006	10:30:00	15.4	7.89	95.0
10/14/2006	10:45:00	15.4	7.90	95.1
10/14/2006	11:00:00	15.5	7.90	95.3
10/14/2006	11:15:00	15.5	7.91	95.5
10/14/2006	11:30:00	15.6	7.91	95.6
10/14/2006	11:45:00	15.7	7.91	95.8
10/14/2006	12:00:00	15.8	7.92	96.0
10/14/2006	12:15:00	15.8	7.92	96.1

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/14/2006	12:30:00	15.9	7.92	96.3
10/14/2006	12:45:00	15.9	7.92	96.3
10/14/2006	13:00:00	15.9	7.92	96.4
10/14/2006	13:15:00	15.9	7.92	96.4
10/14/2006	13:30:00	15.9	7.92	96.4
10/14/2006	13:45:00	16.0	7.92	96.5
10/14/2006	14:00:00	16.0	7.92	96.5
10/14/2006	14:15:00	16.0	7.92	96.5
10/14/2006	14:30:00	16.0	7.92	96.6
10/14/2006	14:45:00	16.0	7.92	96.6
10/14/2006	15:00:00	16.1	7.91	96.7
10/14/2006	15:15:00	16.2	7.91	96.8
10/14/2006	15:30:00	16.2	7.90	96.9
10/14/2006	15:45:00	16.3	7.90	96.9
10/14/2006	16:00:00	16.3	7.90	96.9
10/14/2006	16:15:00	16.3	7.90	97.0
10/14/2006	16:30:00	16.3	7.90	97.0
10/14/2006	16:45:00	16.3	7.90	97.0
10/14/2006	17:00:00	16.3	7.90	96.9
10/14/2006	17:15:00	16.3	7.90	96.9
10/14/2006	17:30:00	16.3	7.90	96.9
10/14/2006	17:45:00	16.3	7.90	96.9
10/14/2006	18:00:00	16.3	7.90	96.9
10/14/2006	18:15:00	16.3	7.89	96.8
10/14/2006	18:30:00	16.2	7.89	96.7
10/14/2006	18:45:00	16.2	7.89	96.7
10/14/2006	19:00:00	16.2	7.88	96.6
10/14/2006	19:15:00	16.2	7.88	96.6
10/14/2006	19:30:00	16.2	7.88	96.5
10/14/2006	19:45:00	16.2	7.88	96.4
10/14/2006	20:00:00	16.2	7.88	96.4
10/14/2006	20:15:00	16.2	7.88	96.4
10/14/2006	20:30:00	16.1	7.87	96.3
10/14/2006	20:45:00	16.1	7.87	96.2
10/14/2006	21:00:00	16.1	7.87	96.1
10/14/2006	21:15:00	16.1	7.87	96.1
10/14/2006	21:30:00	16.0	7.87	96.0
10/14/2006	21:45:00	16.0	7.87	95.9
10/14/2006	22:00:00	15.9	7.87	95.8
10/14/2006	22:15:00	15.9	7.87	95.8
10/14/2006	22:30:00	15.9	7.87	95.7
10/14/2006	22:45:00	15.9	7.87	95.7
10/14/2006	23:00:00	15.8	7.87	95.6
10/14/2006	23:15:00	15.8	7.87	95.5
10/14/2006	23:30:00	15.7	7.87	95.5
10/14/2006	23:45:00	15.7	7.88	95.4

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/15/2006	0:00:00	15.7	7.88	95.4
10/15/2006	0:15:00	15.6	7.88	95.4
10/15/2006	0:30:00	15.6	7.88	95.3
10/15/2006	0:45:00	15.5	7.89	95.3
10/15/2006	1:00:00	15.5	7.90	95.3
10/15/2006	1:15:00	15.4	7.90	95.2
10/15/2006	1:30:00	15.4	7.91	95.2
10/15/2006	1:45:00	15.4	7.91	95.1
10/15/2006	2:00:00	15.3	7.92	95.1
10/15/2006	2:15:00	15.3	7.92	95.1
10/15/2006	2:30:00	15.2	7.92	95.0
10/15/2006	2:45:00	15.2	7.93	95.0
10/15/2006	3:00:00	15.1	7.93	94.9
10/15/2006	3:15:00	15.1	7.94	94.9
10/15/2006	3:30:00	15.1	7.94	94.9
10/15/2006	3:45:00	15.1	7.94	94.9
10/15/2006	4:00:00	15.0	7.94	94.9
10/15/2006	4:15:00	15.0	7.95	94.9
10/15/2006	4:30:00	15.0	7.95	94.8
10/15/2006	4:45:00	15.0	7.95	94.8
10/15/2006	5:00:00	14.9	7.95	94.8
10/15/2006	5:15:00	14.9	7.96	94.8
10/15/2006	5:30:00	14.9	7.96	94.7
10/15/2006	5:45:00	14.9	7.96	94.7
10/15/2006	6:00:00	14.9	7.96	94.7
10/15/2006	6:15:00	14.8	7.96	94.6
10/15/2006	6:30:00	14.8	7.96	94.7
10/15/2006	6:45:00	14.8	7.97	94.7
10/15/2006	7:00:00	14.8	7.97	94.7
10/15/2006	7:15:00	14.8	7.97	94.8
10/15/2006	7:30:00	14.8	7.97	94.8
10/15/2006	7:45:00	14.8	7.97	94.8
10/15/2006	8:00:00	14.8	7.97	94.8
10/15/2006	8:15:00	14.9	7.98	94.9
10/15/2006	8:30:00	14.9	7.98	94.9
10/15/2006	8:45:00	14.9	7.98	95.1
10/15/2006	9:00:00	14.9	7.98	95.1
10/15/2006	9:15:00	14.9	7.98	95.2
10/15/2006	9:30:00	15.0	7.98	95.3
10/15/2006	9:45:00	15.1	7.98	95.4
10/15/2006	10:00:00	15.1	7.98	95.5
10/15/2006	10:15:00	15.2	7.98	95.7
10/15/2006	10:30:00	15.3	7.98	95.8
10/15/2006	10:45:00	15.3	7.98	95.8
10/15/2006	11:00:00	15.3	7.98	95.8
10/15/2006	11:15:00	15.3	7.98	95.7

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/15/2006	11:30:00	15.2	7.98	95.7
10/15/2006	11:45:00	15.2	7.99	95.8
10/15/2006	12:00:00	15.3	7.99	95.9
10/15/2006	12:15:00	15.5	7.99	96.2
10/15/2006	12:30:00	15.5	7.98	96.4
10/15/2006	12:45:00	15.7	7.97	96.5
10/15/2006	13:00:00	15.7	7.97	96.5
10/15/2006	13:15:00	15.7	7.96	96.5
10/15/2006	13:30:00	15.7	7.96	96.4
10/15/2006	13:45:00	15.6	7.98	96.4
10/15/2006	14:00:00	15.6	7.97	96.4
10/15/2006	14:15:00	15.6	7.97	96.3
10/15/2006	14:30:00	15.7	7.96	96.4
10/15/2006	14:45:00	15.7	7.96	96.5
10/15/2006	15:00:00	15.8	7.96	96.6
10/15/2006	15:15:00	15.9	7.95	96.7
10/15/2006	15:30:00	15.9	7.95	96.6
10/15/2006	15:45:00	15.9	7.95	96.6
10/15/2006	16:00:00	15.9	7.94	96.5
10/15/2006	16:15:00	15.9	7.93	96.6
10/15/2006	16:30:00	16.0	7.74	94.3
10/15/2006	16:45:00	16.0	7.32	89.2
10/15/2006	17:00:00	16.0	7.00	85.2
10/15/2006	17:15:00	16.0	7.19	87.6
10/15/2006	17:30:00	15.9	7.18	87.5
10/15/2006	17:45:00	15.9	6.56	79.9
10/15/2006	18:00:00	15.9	6.79	82.6
10/15/2006	18:15:00	15.9	6.70	81.6
10/15/2006	18:30:00	15.9	6.86	83.5
10/15/2006	18:45:00	15.9	6.90	83.9
10/15/2006	19:00:00	15.9	6.84	83.3
10/15/2006	19:15:00	15.9	6.77	82.3
10/15/2006	19:30:00	15.9	6.73	81.8
10/15/2006	19:45:00	15.9	6.68	81.3
10/15/2006	20:00:00	15.9	6.64	80.8
10/15/2006	20:15:00	15.9	6.56	79.8
10/15/2006	20:30:00	15.9	6.22	75.7
10/15/2006	20:45:00	15.9	6.04	73.5
10/15/2006	21:00:00	15.9	5.46	66.4
10/15/2006	21:15:00	15.9	5.53	67.2
10/15/2006	21:30:00	15.9	5.54	67.4
10/15/2006	21:45:00	15.9	5.69	69.1
10/15/2006	22:00:00	15.8	5.45	66.3
10/15/2006	22:15:00	15.8	5.21	63.3
10/15/2006	22:30:00	15.8	5.24	63.7
10/15/2006	22:45:00	15.8	5.33	64.7

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/15/2006	23:00:00	15.8	5.53	67.2
10/15/2006	23:15:00	15.8	4.57	55.5
10/15/2006	23:30:00	15.7	5.33	64.6
10/15/2006	23:45:00	15.7	5.44	65.8
10/16/2006	0:00:00	15.7	4.90	59.3
10/16/2006	0:15:00	15.6	5.01	60.6
10/16/2006	0:30:00	15.6	5.00	60.5
10/16/2006	0:45:00	15.6	5.06	61.2
10/16/2006	1:00:00	15.5	5.27	63.6
10/16/2006	1:15:00	15.5	5.44	65.6
10/16/2006	1:30:00	15.5	5.47	65.9
10/16/2006	1:45:00	15.5	5.26	63.4
10/16/2006	2:00:00	15.5	4.95	59.7
10/16/2006	2:15:00	15.5	4.74	57.1
10/16/2006	2:30:00	15.5	4.59	55.4
10/16/2006	2:45:00	15.5	4.55	54.9
10/16/2006	3:00:00	15.5	4.33	52.2
10/16/2006	3:15:00	15.5	3.96*	47.8
10/16/2006	3:30:00	15.5	3.94	47.5
10/16/2006	3:45:00	15.4	3.97	47.8
10/16/2006	4:00:00	15.4	4.12	49.6
10/16/2006	4:15:00	15.4	4.54	54.5
10/16/2006	4:30:00	15.3	4.56	54.8
10/16/2006	4:45:00	15.2	4.53	54.3
10/16/2006	5:00:00	15.2	4.23	50.7
10/16/2006	5:15:00	15.2	4.19	50.2
10/16/2006	5:30:00	15.3	4.14	49.7
10/16/2006	5:45:00	15.2	4.14	49.7
10/16/2006	6:00:00	15.2	4.05	48.5
10/16/2006	6:15:00	15.2	3.81	45.7
10/16/2006	6:30:00	15.1	4.27	51.1
10/16/2006	6:45:00	15.1	3.97	47.5
10/16/2006	7:00:00	15.1	3.85	46.0
10/16/2006	7:15:00	15.1	3.81	45.5
10/16/2006	7:30:00	15.1	3.72	44.4
10/16/2006	7:45:00	15.1	3.64	43.6
10/16/2006	8:00:00	15.1	3.54	42.3
10/16/2006	8:15:00	15.1	3.25	38.8
10/16/2006	8:30:00	15.0	2.88	34.3
10/16/2006	8:45:00	15.0	2.82	33.6
10/16/2006	9:00:00	15.0	2.99	35.7
10/16/2006	9:15:00	14.9	3.13	37.4
10/16/2006	9:30:00	14.9	3.17	37.7
10/16/2006	9:45:00	14.9	3.12	37.2
10/16/2006	10:00:00	14.9	3.67	43.7
10/16/2006	10:15:00	14.8	3.73	44.3

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/16/2006	10:30:00	14.8	3.62	43.1
10/16/2006	10:45:00	14.9	3.33	39.6
10/16/2006	11:00:00	14.9	3.17	37.7
10/16/2006	11:15:00	14.9	2.74	32.6
10/16/2006	11:30:00	14.9	2.80	33.3
10/16/2006	11:45:00	14.8	3.02	35.9
10/16/2006	12:00:00	14.8	2.96	35.1
10/16/2006	12:15:00	14.8	2.82	33.5
10/16/2006	12:30:00	14.8	2.67	31.7
10/16/2006	12:45:00	14.8	2.71	32.2
10/16/2006	13:00:00	14.8	2.21	26.3
10/16/2006	13:15:00	14.8	1.92	22.8
10/16/2006	13:30:00	14.8	2.45	29.1
10/16/2006	13:45:00	14.8	2.62	31.1
10/16/2006	14:00:00	14.8	2.68	31.8
10/16/2006	14:15:00	14.8	2.28	27.1
10/16/2006	14:30:00	14.8	1.87	22.3
10/16/2006	14:45:00	14.8	1.75	20.9
10/16/2006	15:00:00	14.8	1.96	23.3
10/16/2006	15:15:00	14.8	2.20	26.2
10/16/2006	15:30:00	14.9	2.41	28.7
10/16/2006	15:45:00	15.4	2.29	27.5
10/16/2006	16:00:00	15.6	2.26	27.3
10/16/2006	16:15:00	15.6	2.04	24.7
10/16/2006	16:30:00	15.7	2.17	26.3
10/16/2006	16:45:00	15.7	1.98	24.0
10/16/2006	17:00:00	15.7	1.80	21.8
10/16/2006	17:15:00	15.7	1.91	23.1
10/16/2006	17:30:00	15.7	1.97	23.9
10/16/2006	17:45:00	15.7	2.03	24.6
10/16/2006	18:00:00	15.7	1.96	23.8
10/16/2006	18:15:00	15.7	1.80	21.8
10/16/2006	18:30:00	15.7	1.73	21.0
10/16/2006	18:45:00	15.7	1.45	17.6
10/16/2006	19:00:00	15.7	2.40	29.1
10/16/2006	19:15:00	15.7	2.51	30.4
10/16/2006	19:30:00	15.8	2.52	30.6
10/16/2006	19:45:00	15.8	2.48	30.1
10/16/2006	20:00:00	15.8	2.50	30.4
10/16/2006	20:15:00	15.9	1.75	21.2
10/16/2006	20:30:00	15.9	1.81	22.0
10/16/2006	20:45:00	15.9	2.20	26.7
10/16/2006	21:00:00	15.9	2.11	25.7
10/16/2006	21:15:00	15.9	1.90	23.1
10/16/2006	21:30:00	15.9	2.16	26.3
10/16/2006	21:45:00	15.9	2.24	27.2

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/16/2006	22:00:00	15.9	2.34	28.5
10/16/2006	22:15:00	15.9	2.49	30.3
10/16/2006	22:30:00	15.9	2.51	30.5
10/16/2006	22:45:00	15.9	2.07	25.2
10/16/2006	23:00:00	15.9	1.99	24.2
10/16/2006	23:15:00	15.9	2.09	25.4
10/16/2006	23:30:00	15.9	2.42	29.4
10/16/2006	23:45:00	15.9	2.14	26.1
10/17/2006	0:00:00	15.9	3.91	47.6
10/17/2006	0:15:00	15.8	3.44	41.8
10/17/2006	0:30:00	15.8	2.45	29.8
10/17/2006	0:45:00	15.8	3.21	38.9
10/17/2006	1:00:00	15.8	3.79	46.0
10/17/2006	1:15:00	15.7	4.02	48.7
10/17/2006	1:30:00	15.7	4.60*	55.8
10/17/2006	1:45:00	15.6	5.80	70.1
10/17/2006	2:00:00	15.1	7.92	94.8
10/17/2006	2:15:00	15.1	7.94	94.9
10/17/2006	2:30:00	15.0	7.94	94.8
10/17/2006	2:45:00	15.0	7.95	94.8
10/17/2006	3:00:00	14.9	7.84	93.5
10/17/2006	3:15:00	15.0	7.68	91.5
10/17/2006	3:30:00	15.0	7.41	88.4
10/17/2006	3:45:00	15.0	7.34	87.6
10/17/2006	4:00:00	15.0	7.09	84.6
10/17/2006	4:15:00	15.0	7.07	84.4
10/17/2006	4:30:00	15.0	6.66	79.5
10/17/2006	4:45:00	15.0	6.70	80.0
10/17/2006	5:00:00	15.0	6.28	74.9
10/17/2006	5:15:00	15.1	6.75	80.6
10/17/2006	5:30:00	15.1	6.95	83.0
10/17/2006	5:45:00	15.1	6.81	81.4
10/17/2006	6:00:00	15.1	6.60	78.9
10/17/2006	6:15:00	15.0	6.29	75.0
10/17/2006	6:30:00	14.3	7.99	94.0
10/17/2006	6:45:00	14.3	7.95	93.4
10/17/2006	7:00:00	14.3	7.89	92.7
10/17/2006	7:15:00	14.3	7.83	92.0
10/17/2006	7:30:00	14.4	7.65	90.0
10/17/2006	7:45:00	14.4	7.47	87.9
10/17/2006	8:00:00	14.4	7.39	87.0
10/17/2006	8:15:00	14.4	7.20	84.9
10/17/2006	8:30:00	14.4	7.25	85.4
10/17/2006	8:45:00	14.5	7.38	87.1
10/17/2006	9:00:00	14.5	7.40	87.4
10/17/2006	9:15:00	14.5	7.28	86.0

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/17/2006	9:30:00	14.5	7.18	84.9
10/17/2006	9:45:00	14.6	7.05	83.3
10/17/2006	10:00:00	14.6	7.03	83.1
10/17/2006	10:15:00	14.6	6.94	82.1
10/17/2006	10:30:00	14.6	6.82	80.6
10/17/2006	10:45:00	14.6	6.73	79.6
10/17/2006	11:00:00	14.6	7.15	84.6
10/17/2006	11:15:00	14.7	8.15	96.5
10/17/2006	11:30:00	14.8	8.14	96.7
10/17/2006	11:45:00	14.8	8.09	96.2
10/17/2006	12:00:00	14.9	7.99	95.1
10/17/2006	12:15:00	14.9	7.84	93.3
10/17/2006	12:30:00	14.9	7.78	92.7
10/17/2006	12:45:00	14.9	7.73	92.1
10/17/2006	13:00:00	14.9	7.63	90.9
10/17/2006	13:15:00	15.0	7.55	90.0
10/17/2006	13:30:00	15.0	7.43	88.6
10/17/2006	13:45:00	15.0	7.29	87.0
10/17/2006	14:00:00	15.0	7.24	86.3
10/17/2006	14:15:00	15.0	7.19	85.8
10/17/2006	14:30:00	15.0	7.17	85.6
10/17/2006	14:45:00	15.0	7.17	85.6
10/17/2006	15:00:00	15.0	7.09	84.7
10/17/2006	15:15:00	15.0	7.05	84.2
10/17/2006	15:30:00	15.1	7.04	84.1
10/17/2006	15:45:00	15.1	6.98	83.4
10/17/2006	16:00:00	15.1	6.90	82.5
10/17/2006	16:15:00	15.1	6.81	81.5
10/17/2006	16:30:00	15.1	6.84	81.8
10/17/2006	16:45:00	15.1	6.69	80.1
10/17/2006	17:00:00	15.2	6.91	82.8
10/17/2006	17:15:00	15.3	6.46	77.6
10/17/2006	17:30:00	15.4	6.65	80.0
10/17/2006	17:45:00	15.4	6.57	79.1
10/17/2006	18:00:00	15.5	6.53	78.7
10/17/2006	18:15:00	15.5	6.49	78.3
10/17/2006	18:30:00	15.6	6.37	77.0
10/17/2006	18:45:00	15.7	5.87	71.1
10/17/2006	19:00:00	15.8	5.90	71.6
10/17/2006	19:15:00	15.8	6.08	73.9
10/17/2006	19:30:00	15.8	5.94	72.1
10/17/2006	19:45:00	15.8	5.88	71.4
10/17/2006	20:00:00	15.8	5.77	70.1
10/17/2006	20:15:00	15.8	5.80	70.4
10/17/2006	20:30:00	15.8	5.55	67.4
10/17/2006	20:45:00	15.8	5.38	65.3

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/17/2006	21:00:00	15.7	5.81	70.5
10/17/2006	21:15:00	15.7	5.65	68.6
10/17/2006	21:30:00	15.7	5.72	69.3
10/17/2006	21:45:00	15.7	5.44	65.9
10/17/2006	22:00:00	15.7	4.89	59.2
10/17/2006	22:15:00	15.7	4.47	54.1
10/17/2006	22:30:00	15.7	4.23	51.2
10/17/2006	22:45:00	15.7	4.07*	49.3
10/17/2006	23:00:00	15.7	4.06	49.2
10/17/2006	23:15:00	15.7	3.72	45.1
10/17/2006	23:30:00	15.7	3.67	44.5
10/17/2006	23:45:00	15.7	3.60	43.5
10/18/2006	0:00:00	15.7	3.68	44.6
10/18/2006	0:15:00	15.7	3.80	46.0
10/18/2006	0:30:00	15.7	3.86	46.7
10/18/2006	0:45:00	15.7	3.79	45.8
10/18/2006	1:00:00	15.7	3.73	45.2
10/18/2006	1:15:00	15.7	3.55	43.0
10/18/2006	1:30:00	15.7	3.81	46.1
10/18/2006	1:45:00	15.7	3.62	43.9
10/18/2006	2:00:00	15.6	3.42	41.3
10/18/2006	2:15:00	15.6	3.49	42.2
10/18/2006	2:30:00	15.6	3.56	43.0
10/18/2006	2:45:00	15.6	3.60	43.5
10/18/2006	3:00:00	15.6	3.48	42.1
10/18/2006	3:15:00	15.6	3.12	37.7
10/18/2006	3:30:00	15.6	3.39	41.0
10/18/2006	3:45:00	15.5	4.58	55.3
10/18/2006	4:00:00	15.5	3.54	42.7
10/18/2006	4:15:00	15.5	3.57	43.0
10/18/2006	4:30:00	15.5	3.01	36.2
10/18/2006	4:45:00	15.4	2.92	35.2
10/18/2006	5:00:00	15.4	2.92	35.2
10/18/2006	5:15:00	15.4	2.73	32.8
10/18/2006	5:30:00	15.4	2.60	31.2
10/18/2006	5:45:00	15.4	2.69	32.4
10/18/2006	6:00:00	15.3	3.21	38.5
10/18/2006	6:15:00	15.3	3.58	43.0
10/18/2006	6:30:00	15.2	3.73	44.8
10/18/2006	6:45:00	15.1	4.16	49.7
10/18/2006	7:00:00	14.9	4.26	50.8
10/18/2006	7:15:00	14.9	4.18	49.8
10/18/2006	7:30:00	14.9	4.31	51.4
10/18/2006	7:45:00	14.9	5.14	61.2
10/18/2006	8:00:00	14.9	4.54	54.0
10/18/2006	8:15:00	14.9	4.27	50.8

Table 5.17. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2006. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/18/2006	8:30:00	14.9	3.81	45.4
10/18/2006	8:45:00	14.9	3.65	43.5
10/18/2006	9:00:00	14.9	3.72	44.4
10/18/2006	9:15:00	14.9	3.43	40.9
10/18/2006	9:30:00	14.9	3.18	37.8
10/18/2006	9:45:00	14.8	3.46	41.1
10/18/2006	10:00:00	14.8	3.47	41.2
10/18/2006	10:15:00	14.8	3.28*	38.9
10/18/2006	10:30:00	11.2	8.45	92.6
10/18/2006	10:45:00	12.5	8.86	100.0
10/18/2006	11:00:00	13.6	8.80	101.8
10/18/2006	11:15:00	13.3	8.60	98.8
10/18/2006	11:30:00	14.7	8.59	101.9
10/18/2006	11:45:00	15.2	8.55	102.5
10/18/2006	12:00:00	16.2	8.52	104.4
10/18/2006	12:15:00	16.9	8.42	104.6
10/18/2006	12:30:00	15.9	8.39	102.2

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**s5lajoya10-13-06**
Setup	**Date**	**(MMDDYY)**	**:**	**101306**
Setup	**Time**	**(HHMMSS)**	**:**	**181149**
Starting	**Date**	**(MMDDYY)**	**:**	**101306**
Starting	**Time**	**(HHMMSS)**	**:**	**180000**
Stopping	**Date**	**(MMDDYY)**	**:**	**102006**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temp (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
10/13/2006	18:30:00	16.8	380	8.14	7.28	89.1
10/13/2006	18:45:00	16.8	333	8.14	7.30	89.3
10/13/2006	19:00:00	16.8	316	8.14	7.36	90.1
10/13/2006	19:15:00	16.8	328	8.14	7.43	90.9
10/13/2006	19:30:00	16.8	339	8.15	7.35	90.0
10/13/2006	19:45:00	16.8	307	8.15	7.28	89.2
10/13/2006	20:00:00	16.8	311	8.15	7.19	88.0
10/13/2006	20:15:00	16.8	300	8.15	7.21	88.2
10/13/2006	20:30:00	16.8	303	8.15	7.21	88.2
10/13/2006	20:45:00	16.7	297	8.15	7.17	87.7
10/13/2006	21:00:00	16.7	295	8.16	7.19	87.9
10/13/2006	21:15:00	16.7	289	8.15	7.22	88.2
10/13/2006	21:30:00	16.7	289	8.15	7.24	88.4
10/13/2006	21:45:00	16.7	289	8.15	7.21	88.1
10/13/2006	22:00:00	16.6	290	8.15	7.27	88.6
10/13/2006	22:15:00	16.6	293	8.14	7.26	88.5
10/13/2006	22:30:00	16.5	289	8.14	7.26	88.4
10/13/2006	22:45:00	16.4	296	8.15	7.24	88.1
10/14/2006	23:00:00	16.4	296	8.15	7.23	87.8
10/14/2006	23:15:00	16.3	279	8.15	7.25	87.9
10/14/2006	23:30:00	16.3	282	8.15	7.23	87.6
10/14/2006	23:45:00	16.2	271	8.15	7.22	87.3
10/14/2006	0:00:00	16.2	271	8.15	7.20	87.0
10/14/2006	0:15:00	16.1	268	8.15	7.24	87.4
10/14/2006	0:30:00	16.1	268	8.15	7.21	86.9
10/14/2006	0:45:00	16.0	266	8.15	7.17	86.4
10/14/2006	1:00:00	16.0	265	8.15	7.23	87.0
10/14/2006	1:15:00	15.9	259	8.15	7.26	87.3
10/14/2006	1:30:00	15.9	258	8.15	7.32	87.8
10/14/2006	1:45:00	15.8	262	8.15	7.25	86.9
10/14/2006	2:00:00	15.8	264	8.15	7.26	87.0
10/14/2006	2:15:00	15.7	261	8.15	7.28	87.1

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/14/2006	2:30:00	15.7	254	8.15	7.29	87.1
10/14/2006	2:45:00	15.6	263	8.16	7.20	85.9
10/14/2006	3:00:00	15.6	263	8.15	7.21	86.0
10/14/2006	3:15:00	15.5	256	8.15	7.22	86.1
10/14/2006	3:30:00	15.5	255	8.15	7.22	86.0
10/14/2006	3:45:00	15.4	258	8.15	7.24	86.1
10/14/2006	4:00:00	15.4	258	8.15	7.25	86.2
10/14/2006	4:15:00	15.4	260	8.15	7.29	86.6
10/14/2006	4:30:00	15.3	258	8.15	7.37	87.4
10/14/2006	4:45:00	15.3	257	8.15	7.24	85.8
10/14/2006	5:00:00	15.3	258	8.15	7.28	86.4
10/14/2006	5:15:00	15.3	259	8.15	7.35	87.1
10/14/2006	5:30:00	15.2	264	8.15	7.40	87.6
10/14/2006	5:45:00	15.2	270	8.15	7.30	86.5
10/14/2006	6:00:00	15.2	256	8.15	7.26	85.9
10/14/2006	6:15:00	15.2	255	8.15	7.33	86.7
10/14/2006	6:30:00	15.2	262	8.15	7.37	87.2
10/14/2006	6:45:00	15.1	266	8.15	7.34	86.8
10/14/2006	7:00:00	15.1	269	8.15	7.41	87.6
10/14/2006	7:15:00	15.1	268	8.15	7.34	86.7
10/14/2006	7:30:00	15.1	261	8.15	7.27	85.9
10/14/2006	7:45:00	15.1	272	8.15	7.30	86.2
10/14/2006	8:00:00	15.1	275	8.15	7.29	86.1
10/14/2006	8:15:00	15.1	269	8.15	7.32	86.4
10/14/2006	8:30:00	15.1	259	8.15	7.36	86.9
10/14/2006	8:45:00	15.1	258	8.15	7.29	86.0
10/14/2006	9:00:00	15.1	257	8.15	7.27	85.9
10/14/2006	9:15:00	15.1	260	8.15	7.30	86.2
10/14/2006	9:30:00	15.1	258	8.15	7.30	86.3
10/14/2006	9:45:00	15.2	251	8.15	7.27	86.0
10/14/2006	10:00:00	15.2	236	8.15	7.30	86.4
10/14/2006	10:15:00	15.2	242	8.15	7.40	87.6
10/14/2006	10:30:00	15.2	242	8.15	7.40	87.6
10/14/2006	10:45:00	15.2	245	8.15	7.39	87.5
10/14/2006	11:00:00	15.2	253	8.15	7.40	87.7
10/14/2006	11:15:00	15.3	249	8.15	7.42	88.1
10/14/2006	11:30:00	15.4	242	8.15	7.41	88.1
10/14/2006	11:45:00	15.4	230	8.16	7.45	88.5
10/14/2006	12:00:00	15.5	229	8.15	7.53	89.8
10/14/2006	12:15:00	15.6	227	8.16	7.52	89.8
10/14/2006	12:30:00	15.6	230	8.16	7.46	89.1
10/14/2006	12:45:00	15.7	235	8.16	7.46	89.2
10/14/2006	13:00:00	15.7	240	8.16	7.46	89.2
10/14/2006	13:15:00	15.7	247	8.16	7.46	89.3
10/14/2006	13:30:00	15.7	246	8.16	7.44	89.1
10/14/2006	13:45:00	15.8	249	8.16	7.45	89.2

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/14/2006	14:00:00	15.8	250	8.16	7.35	88.1
10/14/2006	14:15:00	15.8	251	8.16	7.32	87.7
10/14/2006	14:30:00	15.8	248	8.16	7.35	88.1
10/14/2006	14:45:00	15.8	248	8.16	7.39	88.6
10/14/2006	15:00:00	15.9	269	8.16	7.37	88.5
10/14/2006	15:15:00	15.9	262	8.17	7.38	88.8
10/14/2006	15:30:00	16.0	247	8.17	7.46	89.9
10/14/2006	15:45:00	16.1	239	8.17	7.32	88.3
10/14/2006	16:00:00	16.1	242	8.16	7.19	86.8
10/14/2006	16:15:00	16.1	253	8.16	7.36	88.8
10/14/2006	16:30:00	16.1	256	8.16	7.38	89.1
10/14/2006	16:45:00	16.1	259	8.17	7.34	88.6
10/14/2006	17:00:00	16.1	271	8.16	7.25	87.6
10/14/2006	17:15:00	16.1	275	8.16	7.31	88.3
10/14/2006	17:30:00	16.1	261	8.16	7.34	88.6
10/14/2006	17:45:00	16.1	269	8.16	7.32	88.3
10/14/2006	18:00:00	16.1	255	8.17	7.33	88.5
10/14/2006	18:15:00	16.1	250	8.17	7.27	87.7
10/14/2006	18:30:00	16.1	237	8.17	7.29	87.9
10/14/2006	18:45:00	16.1	244	8.17	7.33	88.4
10/14/2006	19:00:00	16.0	251	8.17	7.40	89.2
10/14/2006	19:15:00	16.0	257	8.17	7.44	89.6
10/14/2006	19:30:00	16.0	264	8.17	7.33	88.4
10/14/2006	19:45:00	16.0	264	8.17	7.32	88.2
10/14/2006	20:00:00	16.0	257	8.17	7.29	87.7
10/14/2006	20:15:00	16.0	249	8.17	7.31	88.0
10/14/2006	20:30:00	15.9	256	8.17	7.35	88.4
10/14/2006	20:45:00	15.9	271	8.17	7.42	89.2
10/14/2006	21:00:00	15.9	272	8.17	7.44	89.4
10/14/2006	21:15:00	15.9	271	8.17	7.43	89.2
10/14/2006	21:30:00	15.8	269	8.18	7.40	88.8
10/14/2006	21:45:00	15.8	244	8.18	7.42	88.9
10/14/2006	22:00:00	15.8	232	8.18	7.41	88.8
10/14/2006	22:15:00	15.7	231	8.18	7.38	88.3
10/14/2006	22:30:00	15.7	235	8.18	7.34	87.9
10/14/2006	22:45:00	15.7	236	8.18	7.34	87.8
10/15/2006	23:00:00	15.6	235	8.19	7.38	88.2
10/15/2006	23:15:00	15.6	229	8.19	7.40	88.3
10/15/2006	23:30:00	15.6	230	8.19	7.22	86.1
10/15/2006	23:45:00	15.5	229	8.19	7.31	87.1
10/15/2006	0:00:00	15.5	226	8.19	7.35	87.5
10/15/2006	0:15:00	15.5	226	8.19	7.34	87.4
10/15/2006	0:30:00	15.4	224	8.19	7.36	87.6
10/15/2006	0:45:00	15.4	218	8.18	7.35	87.3
10/15/2006	1:00:00	15.3	219	8.18	7.37	87.5
10/15/2006	1:15:00	15.3	222	8.19	7.36	87.2

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/15/2006	1:30:00	15.2	227	8.19	7.38	87.4
10/15/2006	1:45:00	15.2	233	8.19	7.36	87.1
10/15/2006	2:00:00	15.1	243	8.19	7.45	88.0
10/15/2006	2:15:00	15.1	245	8.19	7.36	86.9
10/15/2006	2:30:00	15.0	256	8.18	7.41	87.4
10/15/2006	2:45:00	15.0	259	8.19	7.52	88.7
10/15/2006	3:00:00	15.0	246	8.19	7.49	88.3
10/15/2006	3:15:00	14.9	228	8.19	7.50	88.3
10/15/2006	3:30:00	14.9	223	8.19	7.51	88.3
10/15/2006	3:45:00	14.9	227	8.19	7.52	88.4
10/15/2006	4:00:00	14.9	238	8.19	7.53	88.4
10/15/2006	4:15:00	14.8	226	8.19	7.44	87.4
10/15/2006	4:30:00	14.8	211	8.19	7.36	86.4
10/15/2006	4:45:00	14.8	210	8.19	7.49	87.9
10/15/2006	5:00:00	14.8	209	8.19	7.51	88.0
10/15/2006	5:15:00	14.7	210	8.19	7.54	88.3
10/15/2006	5:30:00	14.7	210	8.18	7.52	88.1
10/15/2006	5:45:00	14.7	210	8.18	7.49	87.7
10/15/2006	6:00:00	14.7	210	8.18	7.50	87.8
10/15/2006	6:15:00	14.7	211	8.18	7.50	87.7
10/15/2006	6:30:00	14.6	210	8.18	7.50	87.7
10/15/2006	6:45:00	14.6	211	8.18	7.47	87.3
10/15/2006	7:00:00	14.6	219	8.18	7.38	86.3
10/15/2006	7:15:00	14.6	236	8.18	7.40	86.5
10/15/2006	7:30:00	14.6	239	8.18	7.39	86.5
10/15/2006	7:45:00	14.6	245	8.18	7.38	86.3
10/15/2006	8:00:00	14.6	245	8.18	7.42	86.8
10/15/2006	8:15:00	14.7	245	8.18	7.38	86.4
10/15/2006	8:30:00	14.7	241	8.18	7.39	86.4
10/15/2006	8:45:00	14.7	246	8.18	7.39	86.5
10/15/2006	9:00:00	14.7	245	8.19	7.44	87.1
10/15/2006	9:15:00	14.8	245	8.18	7.36	86.3
10/15/2006	9:30:00	14.8	236	8.18	7.39	86.7
10/15/2006	9:45:00	14.8	220	8.18	7.46	87.6
10/15/2006	10:00:00	14.9	221	8.18	7.46	87.7
10/15/2006	10:15:00	15.0	218	8.18	7.43	87.5
10/15/2006	10:30:00	15.1	213	8.18	7.44	87.8
10/15/2006	10:45:00	15.1	214	8.18	7.44	87.8
10/15/2006	11:00:00	15.1	213	8.19	7.53	88.9
10/15/2006	11:15:00	15.1	210	8.19	7.54	88.9
10/15/2006	11:30:00	15.1	208	8.19	7.50	88.5
10/15/2006	11:45:00	15.0	209	8.19	7.52	88.7
10/15/2006	12:00:00	15.1	210	8.19	7.58	89.4
10/15/2006	12:15:00	15.1	210	8.19	7.52	88.9
10/15/2006	12:30:00	15.3	230	8.19	7.37	87.4
10/15/2006	12:45:00	15.4	238	8.19	7.40	88.0

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/15/2006	13:00:00	15.5	238	8.18	7.32	87.1
10/15/2006	13:15:00	15.5	241	8.19	7.29	86.8
10/15/2006	13:30:00	15.5	238	8.19	7.31	87.1
10/15/2006	13:45:00	15.5	242	8.19	7.35	87.4
10/15/2006	14:00:00	15.4	242	8.18	7.37	87.6
10/15/2006	14:15:00	15.4	231	8.19	7.52	89.4
10/15/2006	14:30:00	15.4	217	8.19	7.50	89.1
10/15/2006	14:45:00	15.5	425	8.18	7.55	90.0
10/15/2006	15:00:00	15.6	429	8.18	7.52	89.8
10/15/2006	15:15:00	15.6	427	8.18	7.59	90.7
10/15/2006	15:30:00	15.6	265	8.16	7.66	91.5
10/15/2006	15:45:00	15.7	196	8.18	7.73	92.5
10/15/2006	16:00:00	15.7	385	8.18	7.54	90.2
10/15/2006	16:15:00	15.7	429	8.20	7.64	91.4
10/15/2006	16:30:00	15.7	162	8.18	4.78	57.2
10/15/2006	16:45:00	15.7	159	8.15	4.15	49.7
10/15/2006	17:00:00	15.7	158	8.12	3.47*	41.5
10/15/2006	17:15:00	15.7	156	8.11	3.13	37.5
10/15/2006	17:30:00	15.7	156	8.11	3.03	36.3
10/15/2006	17:45:00	15.7	155	8.11	2.95	35.3
10/15/2006	18:00:00	15.7	154	8.11	2.87	34.4
10/15/2006	18:15:00	15.7	154	8.09	2.87	34.3
10/15/2006	18:30:00	15.7	153	8.08	2.75	32.8
10/15/2006	18:45:00	15.7	153	8.08	2.66	31.8
10/15/2006	19:00:00	15.7	153	8.08	4.08	48.8
10/15/2006	19:15:00	15.7	152	8.10	4.01	47.9
10/15/2006	19:30:00	15.7	152	8.09	3.27	39.0
10/15/2006	19:45:00	15.7	151	8.08	3.08	36.8
10/15/2006	20:00:00	15.7	151	8.06	2.81	33.5
10/15/2006	20:15:00	15.7	150	8.07	2.74	32.7
10/15/2006	20:30:00	15.7	150	8.05	3.51	42.0
10/15/2006	20:45:00	15.7	149	8.04	3.37	40.2
10/15/2006	21:00:00	15.7	149	8.04	2.93	35.0
10/15/2006	21:15:00	15.7	148	8.04	2.54	30.4
10/15/2006	21:30:00	15.6	148	8.03	2.34	27.9
10/15/2006	21:45:00	15.6	148	8.02	2.49	29.7
10/15/2006	22:00:00	15.6	148	8.01	3.32	39.7
10/15/2006	22:15:00	15.4	148	8.14	4.56	54.2
10/15/2006	22:30:00	15.3	147	8.17	5.15	61.1
10/15/2006	22:45:00	15.2	147	8.18	5.36	63.5
10/16/2006	23:00:00	15.4	147	8.07	5.23	62.2
10/16/2006	23:15:00	15.4	146	8.06	3.60	42.8
10/16/2006	23:30:00	15.4	146	8.05	3.09	36.7
10/16/2006	23:45:00	15.4	146	8.05	3.22	38.2
10/16/2006	0:00:00	15.4	147	8.05	2.62	31.1
10/16/2006	0:15:00	15.3	147	8.06	2.91	34.5

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/16/2006	0:30:00	15.2	147	8.14	4.36	51.6
10/16/2006	0:45:00	15.1	147	8.16	4.23	50.0
10/16/2006	1:00:00	15.2	146	8.08	4.21	49.8
10/16/2006	1:15:00	15.2	146	8.06	3.65	43.2
10/16/2006	1:30:00	15.2	146	8.07	3.38	40.0
10/16/2006	1:45:00	15.2	146	8.07	2.77	32.7
10/16/2006	2:00:00	15.1	146	8.08	2.56	30.2
10/16/2006	2:15:00	15.1	146	8.05	2.84	33.5
10/16/2006	2:30:00	15.1	146	8.05	3.30	39.0
10/16/2006	2:45:00	15.0	146	8.06	3.96	46.7
10/16/2006	3:00:00	15.0	146	8.07	4.19	49.4
10/16/2006	3:15:00	14.8	146	8.14	4.73	55.5
10/16/2006	3:30:00	14.8	146	8.15	4.51	52.9
10/16/2006	3:45:00	14.9	146	8.16	3.36	39.5
10/16/2006	4:00:00	15.0	146	8.12	3.70	43.6
10/16/2006	4:15:00	15.0	146	8.10	3.07	36.1
10/16/2006	4:30:00	15.0	146	8.09	3.07	36.2
10/16/2006	4:45:00	15.0	146	8.09	2.84	33.4
10/16/2006	5:00:00	14.8	146	8.06	2.97	34.9
10/16/2006	5:15:00	14.7	146	8.10	3.80	44.5
10/16/2006	5:30:00	14.5	146	8.13	4.17	48.6
10/16/2006	5:45:00	14.5	146	8.15	3.92	45.7
10/16/2006	6:00:00	14.6	146	8.11	3.69	43.1
10/16/2006	6:15:00	14.7	146	8.10	2.95	34.6
10/16/2006	6:30:00	14.7	146	8.08	2.81	32.9
10/16/2006	6:45:00	14.7	146	8.08	2.59	30.3
10/16/2006	7:00:00	14.7	146	8.07	2.48	29.0
10/16/2006	7:15:00	14.6	146	8.05	2.73	31.9
10/16/2006	7:30:00	14.5	146	8.05	2.55	29.7
10/16/2006	7:45:00	14.4	146	8.05	2.81	32.7
10/16/2006	8:00:00	14.4	146	8.05	3.07	35.7
10/16/2006	8:15:00	14.2	146	8.12	4.35	50.4
10/16/2006	8:30:00	14.3	146	8.11	3.83	44.4
10/16/2006	8:45:00	14.3	146	8.10	3.46	40.2
10/16/2006	9:00:00	14.4	145	8.11	3.09	35.9
10/16/2006	9:15:00	14.4	145	8.08	3.32	38.6
10/16/2006	9:30:00	14.4	146	8.04	3.77	43.9
10/16/2006	9:45:00	14.5	146	8.02	3.19	37.2
10/16/2006	10:00:00	14.5	146	8.02	2.90	33.8
10/16/2006	10:15:00	14.5	146	8.02	2.62	30.6
10/16/2006	10:30:00	14.5	146	8.02	2.29	26.7
10/16/2006	10:45:00	14.4	146	8.02	2.14	24.9
10/16/2006	11:00:00	14.4	147	8.00	2.54	29.5
10/16/2006	11:15:00	14.3	147	8.00	2.61	30.3
10/16/2006	11:30:00	14.3	146	8.01	2.57	29.9
10/16/2006	11:45:00	14.3	146	8.00	3.00	34.8

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/16/2006	12:00:00	14.4	146	8.00	2.56	29.7
10/16/2006	12:15:00	14.4	146	7.99	2.36	27.5
10/16/2006	12:30:00	14.4	147	7.99	2.23	26.0
10/16/2006	12:45:00	14.4	147	7.99	1.93	22.5
10/16/2006	13:00:00	14.4	147	7.97	2.14	24.9
10/16/2006	13:15:00	14.4	147	7.97	2.44	28.4
10/16/2006	13:30:00	14.4	147	7.98	2.83	33.0
10/16/2006	13:45:00	14.4	147	7.99	2.78	32.3
10/16/2006	14:00:00	14.4	147	8.00	3.15	36.7
10/16/2006	14:15:00	14.6	146	8.09	3.11	36.3
10/16/2006	14:30:00	14.5	146	8.07	2.80	32.7
10/16/2006	14:45:00	14.5	146	8.01	3.03	35.3
10/16/2006	15:00:00	14.6	147	8.00	2.41	28.1
10/16/2006	15:15:00	14.6	146	7.98	3.62	42.2
10/16/2006	15:30:00	15.8	144	8.20	7.39	88.6
10/16/2006	15:45:00	15.9	142	8.19	6.16	74.0
10/16/2006	16:00:00	16.0	136	8.20	6.19	74.4
10/16/2006	16:15:00	16.0	126	8.21	4.11	49.4
10/16/2006	16:30:00	15.9	125	8.20	3.65	43.8
10/16/2006	16:45:00	15.8	125	8.17	3.23	38.8
10/16/2006	17:00:00	15.8	125	8.15	2.83	33.9
10/16/2006	17:15:00	15.8	124	8.13	2.69	32.2
10/16/2006	17:30:00	15.8	124	8.13	2.48	29.6
10/16/2006	17:45:00	15.7	124	8.15	2.44	29.2
10/16/2006	18:00:00	15.7	124	8.13	2.38	28.5
10/16/2006	18:15:00	15.7	124	8.10	2.86	34.2
10/16/2006	18:30:00	15.7	124	8.11	2.69	32.1
10/16/2006	18:45:00	15.6	124	8.08	4.17	49.8
10/16/2006	19:00:00	15.6	124	8.09	3.41	40.7
10/16/2006	19:15:00	15.7	124	8.07	2.89	34.6
10/16/2006	19:30:00	15.7	124	8.08	2.52	30.2
10/16/2006	19:45:00	15.8	124	8.05	2.45	29.3
10/16/2006	20:00:00	15.8	124	8.09	2.19	26.2
10/16/2006	20:15:00	15.8	124	8.04	2.16	25.8
10/16/2006	20:30:00	15.8	124	8.05	2.06	24.7
10/16/2006	20:45:00	15.8	124	8.07	1.84	22.1
10/16/2006	21:00:00	15.8	124	8.08	1.75	20.9
10/16/2006	21:15:00	15.8	124	8.05	1.69	20.2
10/16/2006	21:30:00	15.8	124	8.02	1.69	20.2
10/16/2006	21:45:00	15.8	124	8.01	1.79	21.5
10/16/2006	22:00:00	15.8	123	8.02	1.99	23.9
10/16/2006	22:15:00	15.8	123	8.00	2.33	27.9
10/16/2006	22:30:00	15.8	123	8.03	2.58	31.0
10/16/2006	22:45:00	15.8	122	8.03	2.91	34.9
10/17/2006	23:00:00	15.8	122	8.03	3.59	43.1
10/17/2006	23:15:00	15.8	122	8.12	4.73	56.6

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/17/2006	23:30:00	15.7	122	8.20	4.36	52.2
10/17/2006	23:45:00	15.7	121	8.18	4.16	49.7
10/17/2006	0:00:00	15.7	120	8.15	4.06	48.5
10/17/2006	0:15:00	15.6	120	8.12	3.67	43.9
10/17/2006	0:30:00	15.6	119	8.12	3.21	38.4
10/17/2006	0:45:00	15.6	120	8.12	3.95	47.1
10/17/2006	1:00:00	15.5	119	8.11	3.58	42.7
10/17/2006	1:15:00	15.5	120	8.12	3.26	38.8
10/17/2006	1:30:00	15.4	119	8.13	3.86	45.9
10/17/2006	1:45:00	15.1	149	8.21	6.67	78.7
10/17/2006	2:00:00	15.0	413	8.21	6.94	81.8
10/17/2006	2:15:00	14.9	415	8.23	7.40	87.1
10/17/2006	2:30:00	14.9	143	8.22	5.73	67.3
10/17/2006	2:45:00	14.9	142	8.22	3.49	41.0
10/17/2006	3:00:00	15.0	141	8.23	3.17	37.3
10/17/2006	3:15:00	15.0	141	8.22	4.23	49.9
10/17/2006	3:30:00	15.1	141	8.15	3.58	42.2
10/17/2006	3:45:00	15.1	141	8.16	3.07	36.2
10/17/2006	4:00:00	15.0	141	8.14	3.27	38.6
10/17/2006	4:15:00	15.0	141	8.13	2.79	32.9
10/17/2006	4:30:00	15.0	140	8.16	2.62	30.9
10/17/2006	4:45:00	15.1	140	8.13	3.24	38.2
10/17/2006	5:00:00	15.1	141	8.05	3.14	37.1
10/17/2006	5:15:00	15.1	141	8.05	3.41	40.3
10/17/2006	5:30:00	15.1	141	8.08	4.11	48.5
10/17/2006	5:45:00	15.1	140	8.11	4.39	51.7
10/17/2006	6:00:00	14.9	140	8.19	3.24	38.1
10/17/2006	6:15:00	14.9	140	8.14	4.56	53.6
10/17/2006	6:30:00	14.4	123	8.21	4.16	48.3
10/17/2006	6:45:00	14.4	123	8.18	3.91	45.4
10/17/2006	7:00:00	14.4	122	8.18	3.29	38.3
10/17/2006	7:15:00	14.5	121	8.19	3.23	37.6
10/17/2006	7:30:00	14.5	120	8.18	2.91	33.9
10/17/2006	7:45:00	14.5	120	8.17	2.93	34.2
10/17/2006	8:00:00	14.5	120	8.18	2.79	32.6
10/17/2006	8:15:00	14.6	120	8.17	2.82	32.9
10/17/2006	8:30:00	14.6	120	8.16	2.88	33.7
10/17/2006	8:45:00	14.6	120	8.13	3.07	35.8
10/17/2006	9:00:00	14.6	120	8.10	2.74	32.0
10/17/2006	9:15:00	14.6	120	8.10	2.35	27.4
10/17/2006	9:30:00	14.6	120	8.09	2.13	24.8
10/17/2006	9:45:00	14.6	120	8.08	2.11	24.6
10/17/2006	10:00:00	14.6	120	8.06	2.20	25.7
10/17/2006	10:15:00	14.6	120	8.00	2.03	23.7
10/17/2006	10:30:00	14.3	119	8.20	7.82	90.7
10/17/2006	10:45:00	14.3	121	8.15	5.49	63.7

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/17/2006	11:00:00	14.4	121	8.15	5.50	63.9
10/17/2006	11:15:00	14.4	121	8.23	7.73	90.0
10/17/2006	11:30:00	14.5	148	8.24	8.02	93.5
10/17/2006	11:45:00	14.6	124	8.25	5.63	65.8
10/17/2006	12:00:00	14.6	124	8.22	3.44	40.2
10/17/2006	12:15:00	14.6	124	8.21	3.29	38.5
10/17/2006	12:30:00	14.6	124	8.20	3.16	36.9
10/17/2006	12:45:00	14.7	124	8.19	3.09	36.1
10/17/2006	13:00:00	14.7	123	8.18	2.85	33.3
10/17/2006	13:15:00	14.7	123	8.17	2.74	32.1
10/17/2006	13:30:00	14.7	123	8.16	2.64	30.9
10/17/2006	13:45:00	14.7	123	8.14	2.63	30.8
10/17/2006	14:00:00	14.7	123	8.13	2.74	32.1
10/17/2006	14:15:00	14.7	123	8.11	2.70	31.6
10/17/2006	14:30:00	14.7	123	8.10	2.68	31.4
10/17/2006	14:45:00	14.7	123	8.09	2.60	30.4
10/17/2006	15:00:00	14.7	123	8.08	2.51	29.4
10/17/2006	15:15:00	14.7	123	8.08	2.47	28.9
10/17/2006	15:30:00	14.8	123	8.07	2.41	28.2
10/17/2006	15:45:00	14.8	123	8.07	2.41	28.3
10/17/2006	16:00:00	14.8	122	8.06	2.36	27.6
10/17/2006	16:15:00	14.8	122	8.06	2.35	27.5
10/17/2006	16:30:00	14.8	122	8.06	2.24	26.3
10/17/2006	16:45:00	14.8	122	8.04	2.06	24.2
10/17/2006	17:00:00	14.9	122	8.04	2.03	23.8
10/17/2006	17:15:00	14.9	122	8.05	2.15	25.3
10/17/2006	17:30:00	15.0	122	8.05	2.17	25.6
10/17/2006	17:45:00	15.1	122	8.04	2.09	24.6
10/17/2006	18:00:00	15.2	122	8.05	2.05	24.2
10/17/2006	18:15:00	15.3	122	8.05	1.92	22.8
10/17/2006	18:30:00	15.3	122	8.04	2.01	23.8
10/17/2006	18:45:00	15.4	123	8.04	2.04	24.3
10/17/2006	19:00:00	15.5	123	8.03	1.97	23.4
10/17/2006	19:15:00	15.5	123	8.02	1.91	22.7
10/17/2006	19:30:00	15.5	123	8.01	1.78	21.2
10/17/2006	19:45:00	15.5	123	8.00	1.72	20.5
10/17/2006	20:00:00	15.5	123	8.00	1.69	20.1
10/17/2006	20:15:00	15.5	123	8.00	1.90	22.7
10/17/2006	20:30:00	15.5	123	7.97	1.96	23.3
10/17/2006	20:45:00	15.5	123	7.95	1.82	21.7
10/17/2006	21:00:00	15.5	123	7.95	1.76	21.0
10/17/2006	21:15:00	15.5	123	7.94	1.79	21.3
10/17/2006	21:30:00	15.5	123	7.90	1.73	20.6
10/17/2006	21:45:00	15.4	123	7.91	1.67	19.8
10/17/2006	22:00:00	15.4	123	7.96	1.98	23.5
10/17/2006	22:15:00	15.4	123	7.97	1.99	23.6

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/17/2006	22:30:00	15.4	123	7.97	1.89	22.4
10/17/2006	22:45:00	15.4	123	7.96	1.76	21.0
10/18/2006	23:00:00	15.4	123	7.96	1.63	19.4
10/18/2006	23:15:00	15.4	123	7.96	1.57	18.7
10/18/2006	23:30:00	15.4	123	7.95	1.53	18.2
10/18/2006	23:45:00	15.4	123	7.94	1.70	20.2
10/18/2006	0:00:00	15.4	123	7.96	1.64	19.5
10/18/2006	0:15:00	15.4	123	7.95	1.57	18.7
10/18/2006	0:30:00	15.4	123	7.94	1.50	17.8
10/18/2006	0:45:00	15.4	123	7.93	1.50	17.8
10/18/2006	1:00:00	15.4	123	7.93	1.50	17.8
10/18/2006	1:15:00	15.4	122	7.94	1.41	16.7
10/18/2006	1:30:00	15.4	123	7.94	1.41	16.8
10/18/2006	1:45:00	15.4	123	7.92	1.34	15.9
10/18/2006	2:00:00	15.4	123	7.92	1.31	15.5
10/18/2006	2:15:00	15.4	123	7.93	1.27	15.1
10/18/2006	2:30:00	15.4	123	7.92	1.25	14.9
10/18/2006	2:45:00	15.4	123	7.91	1.23	14.6
10/18/2006	3:00:00	15.4	123	7.89	1.15	13.7
10/18/2006	3:15:00	15.4	123	7.91	1.28	15.2
10/18/2006	3:30:00	15.4	123	7.91	1.23	14.6
10/18/2006	3:45:00	15.4	123	7.90	1.31	15.6
10/18/2006	4:00:00	15.4	123	7.90	1.19	14.1
10/18/2006	4:15:00	15.3	123	7.88	1.16	13.7
10/18/2006	4:30:00	15.3	123	7.89	1.17	13.9
10/18/2006	4:45:00	15.3	123	7.90	1.21	14.3
10/18/2006	5:00:00	15.3	123	7.91	1.18	13.9
10/18/2006	5:15:00	15.3	122	7.91	1.28	15.2
10/18/2006	5:30:00	15.2	122	7.91	1.32	15.6
10/18/2006	5:45:00	15.2	122	7.91	1.21	14.3
10/18/2006	6:00:00	15.2	122	7.91	1.19	14.1
10/18/2006	6:15:00	15.1	122	7.92	1.08	12.8
10/18/2006	6:30:00	15.1	122	7.92	1.03	12.2
10/18/2006	6:45:00	15.0	122	7.92	0.99	11.7
10/18/2006	7:00:00	15.0	122	7.92	0.93	11.0
10/18/2006	7:15:00	15.0	122	7.90	0.88	10.3
10/18/2006	7:30:00	14.9	122	7.92	0.89	10.5
10/18/2006	7:45:00	14.9	122	7.92	0.90	10.6
10/18/2006	8:00:00	14.9	123	7.92	0.86	10.1
10/18/2006	8:15:00	14.9	122	7.89	0.82	9.6
10/18/2006	8:30:00	14.9	123	7.90	1.12	13.2
10/18/2006	8:45:00	14.9	123	7.89	1.27	14.9
10/18/2006	9:00:00	14.9	123	7.89	1.24	14.6
10/18/2006	9:15:00	14.8	123	7.89	1.20	14.1
10/18/2006	9:30:00	14.8	123	7.89	1.09	12.8
10/18/2006	9:45:00	14.8	123	7.88	1.06	12.4

Table 5.18. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (and see narrative text for more information).]

10/18/2006	10:00:00	14.8	123	7.87	1.05	12.3
10/18/2006	10:15:00	14.8	123	7.89	1.36	15.9
10/18/2006	10:30:00	14.8	117	7.87	1.35	15.9
10/18/2006	10:45:00	14.7	117	7.82	1.05	12.3
10/18/2006	11:00:00	14.7	113	7.79	1.51	17.6

Table 5.19. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

DataSonde	40184	4a		Homer
Log	**File**	**Name**	**:**	SITE1-1-22-07
Setup	**Date**	**(MMDDYY)**	**:**	1/21/2007
Setup	**Time**	**(HHMMSS)**	**:**	19:48:32
Starting	**Date**	**(MMDDYY)**	**:**	1/22/2007
Starting	**Time**	**(HHMMSS)**	**:**	13:30:00
Stopping	**Date**	**(MMDDYY)**	**:**	1/27/2007
Stopping	**Time**	**(HHMMSS)**	**:**	12:00:00
Measurement	**Interval**	**(HHMMSS)**	**:**	0:15:00
Sensor	**warmup**	**(HHMMSS)**	**:**	0:02:00
Circltr	**warmup**	**(HHMMSS)**	**:**	0:02:00

Date (MMDDYYYY)	Time (HHMMSS)	Temp (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
1/22/2007	14:00:00	3.5	283	8.14	10.98	98.6
1/22/2007	14:15:00	3.6	283	8.16	10.91	98.2
1/22/2007	14:30:00	3.7	281	8.16	10.91	98.5
1/22/2007	14:45:00	3.7	281	8.17	10.89	98.5
1/22/2007	15:00:00	3.8	281	8.18	10.86	98.4
1/22/2007	15:15:00	3.8	283	8.18	10.90	98.8
1/22/2007	15:30:00	3.8	286	8.18	10.83	98.2
1/22/2007	15:45:00	3.8	289	8.18	10.89	98.6
1/22/2007	16:00:00	3.8	292	8.19	10.85	98.2
1/22/2007	16:15:00	3.7	294	8.19	10.82	97.8
1/22/2007	16:30:00	3.7	298	8.19	10.81	97.7
1/22/2007	16:45:00	3.6	302	8.20	10.78	97.2
1/22/2007	17:00:00	3.6	304	8.19	10.78	97.0
1/22/2007	17:15:00	3.5	304	8.21	10.74	96.5
1/22/2007	17:30:00	3.4	304	8.20	10.76	96.5
1/22/2007	17:45:00	3.3	307	8.21	10.70	95.8
1/22/2007	18:00:00	3.3	310	8.21	10.73	95.9
1/22/2007	18:15:00	3.2	315	8.22	10.71	95.6
1/22/2007	18:30:00	3.1	320	8.22	10.75	95.7
1/22/2007	18:45:00	3.1	324	8.23	10.71	95.2
1/22/2007	19:00:00	3.0	325	8.24	10.72	95.2
1/22/2007	19:15:00	3.0	325	8.24	10.73	95.1
1/22/2007	19:30:00	2.9	326	8.25	10.75	95.2
1/22/2007	19:45:00	2.9	329	8.26	10.72	94.8
1/22/2007	20:00:00	2.8	335	8.27	10.78	95.2
1/22/2007	20:15:00	2.8	340	8.28	10.80	95.3
1/22/2007	20:30:00	2.7	348	8.30	10.82	95.3
1/22/2007	20:45:00	2.7	353	8.31	10.86	95.5
1/22/2007	21:00:00	2.6	354	8.32	10.85	95.3
1/22/2007	21:15:00	2.6	351	8.34	10.87	95.4
1/22/2007	21:30:00	2.6	346	8.36	10.92	95.8
1/22/2007	21:45:00	2.5	340	8.38	10.94	95.8

Table 5.19. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/22/2007	22:00:00	2.5	331	8.40	10.93	95.7
1/22/2007	22:15:00	2.5	322	8.43	10.98	96.1
1/22/2007	22:30:00	2.5	315	8.47	10.97	96.0
1/22/2007	22:45:00	2.4	309	8.50	11.02	96.3
1/22/2007	23:00:00	2.4	303	8.54	11.02	96.2
1/22/2007	23:15:00	2.4	298	8.58	11.01	96.1
1/22/2007	23:30:00	2.4	293	8.62	11.04	96.3
1/22/2007	23:45:00	2.4	290	8.66	11.06	96.5
1/23/2007	0:00:00	2.4	287	8.70	11.07	96.5
1/23/2007	0:15:00	2.3	284	8.73	11.10	96.7
1/23/2007	0:30:00	2.3	281	8.76	11.10	96.7
1/23/2007	0:45:00	2.3	278	8.79	11.05	96.2
1/23/2007	1:00:00	2.3	275	8.82	11.11	96.7
1/23/2007	1:15:00	2.3	274	8.84	11.04	96.1
1/23/2007	1:30:00	2.3	271	8.86	11.06	96.3
1/23/2007	1:45:00	2.3	269	8.88	11.04	96.0
1/23/2007	2:00:00	2.3	266	8.90	11.03	95.9
1/23/2007	2:15:00	2.3	265	8.91	11.00	95.6
1/23/2007	2:30:00	2.2	264	8.93	11.01	95.7
1/23/2007	2:45:00	2.2	263	8.94	10.97	95.2
1/23/2007	3:00:00	2.2	261	8.95	10.99	95.3
1/23/2007	3:15:00	2.2	259	8.95	11.00	95.4
1/23/2007	3:30:00	2.1	258	8.96	11.00	95.2
1/23/2007	3:45:00	2.1	258	8.96	10.96	94.9
1/23/2007	4:00:00	2.1	257	8.95	10.97	94.8
1/23/2007	4:15:00	2.0	256	8.94	10.95	94.5
1/23/2007	4:30:00	1.9	255	8.93	10.94	94.3
1/23/2007	4:45:00	1.9	254	8.92	10.96	94.3
1/23/2007	5:00:00	1.8	253	8.90	10.97	94.3
1/23/2007	5:15:00	1.8	253	8.88	10.94	93.8
1/23/2007	5:30:00	1.7	253	8.85	10.93	93.5
1/23/2007	5:45:00	1.6	253	8.82	10.94	93.4
1/23/2007	6:00:00	1.5	253	8.79	10.96	93.3
1/23/2007	6:15:00	1.4	253	8.75	10.94	92.9
1/23/2007	6:30:00	1.3	254	8.71	10.97	92.8
1/23/2007	6:45:00	1.2	254	8.67	11.04	93.0
1/23/2007	7:00:00	1.0	255	8.63	11.02	92.6
1/23/2007	7:15:00	0.9	256	8.58	11.04	92.5
1/23/2007	7:30:00	0.8	257	8.54	11.07	92.4
1/23/2007	7:45:00	0.7	257	8.50	11.07	92.2
1/23/2007	8:00:00	0.6	257	8.46	11.11	92.2
1/23/2007	8:15:00	0.5	255	8.43	11.15	92.4
1/23/2007	8:30:00	0.5	252	8.40	11.16	92.3
1/23/2007	8:45:00	0.5	247	8.37	11.20	92.5
1/23/2007	9:00:00	0.4	244	8.35	11.27	93.1
1/23/2007	9:15:00	0.4	244	8.33	11.30	93.3

Table 5.19. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2007	9:30:00	0.4	243	8.31	11.31	93.4
1/23/2007	9:45:00	0.5	243	8.30	11.31	93.5
1/23/2007	10:00:00	0.5	243	8.29	11.36	94.0
1/23/2007	10:15:00	0.6	243	8.27	11.36	94.2
1/23/2007	10:30:00	0.7	243	8.26	11.40	94.8
1/23/2007	10:45:00	0.8	243	8.25	11.44	95.4
1/23/2007	11:00:00	0.9	243	8.24	11.42	95.5
1/23/2007	11:15:00	1.0	243	8.24	11.38	95.5
1/23/2007	11:30:00	1.1	243	8.23	11.39	96.0
1/23/2007	11:45:00	1.3	242	8.23	11.43	96.6
1/23/2007	12:00:00	1.4	242	8.22	11.39	96.7
1/23/2007	12:15:00	1.5	242	8.22	11.41	97.2
1/23/2007	12:30:00	1.7	241	8.22	11.35	97.0
1/23/2007	12:45:00	1.8	241	8.22	11.34	97.4
1/23/2007	13:00:00	1.9	241	8.22	11.36	97.8
1/23/2007	13:15:00	2.1	241	8.21	11.34	98.0
1/23/2007	13:30:00	2.2	241	8.22	11.34	98.4
1/23/2007	13:45:00	2.3	242	8.22	11.30	98.4
1/23/2007	14:00:00	2.4	243	8.21	11.31	98.8
1/23/2007	14:15:00	2.5	248	8.22	11.30	98.9
1/23/2007	14:30:00	2.6	253	8.21	11.26	98.9
1/23/2007	14:45:00	2.7	256	8.21	11.27	99.2
1/23/2007	15:00:00	2.8	257	8.21	11.24	99.0
1/23/2007	15:15:00	2.8	260	8.22	11.26	99.4
1/23/2007	15:30:00	2.9	262	8.22	11.22	99.1
1/23/2007	15:45:00	2.9	265	8.22	11.20	99.1
1/23/2007	16:00:00	2.9	264	8.22	11.17	98.9
1/23/2007	16:15:00	2.9	263	8.22	11.13	98.5
1/23/2007	16:30:00	2.9	260	8.22	11.11	98.4
1/23/2007	16:45:00	2.9	261	8.22	11.10	98.2
1/23/2007	17:00:00	2.9	268	8.22	11.11	98.3
1/23/2007	17:15:00	2.8	308	8.23	11.02	97.2
1/23/2007	17:30:00	2.7	333	8.24	10.99	96.6
1/23/2007	17:45:00	2.7	330	8.24	11.01	96.8
1/23/2007	18:00:00	2.7	316	8.24	11.00	96.7
1/23/2007	18:15:00	2.7	307	8.24	11.05	97.1
1/23/2007	18:30:00	2.6	302	8.25	11.04	97.0
1/23/2007	18:45:00	2.6	302	8.25	10.98	96.4
1/23/2007	19:00:00	2.6	303	8.26	10.98	96.3
1/23/2007	19:15:00	2.6	304	8.27	10.95	96.1
1/23/2007	19:30:00	2.6	304	8.28	10.99	96.4
1/23/2007	19:45:00	2.5	308	8.29	11.02	96.6
1/23/2007	20:00:00	2.5	312	8.30	11.02	96.5
1/23/2007	20:15:00	2.5	318	8.31	11.03	96.5
1/23/2007	20:30:00	2.5	322	8.33	11.01	96.3
1/23/2007	20:45:00	2.5	322	8.34	11.12	97.2

Table 5.19. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2007	21:00:00	2.4	318	8.36	11.13	97.2
1/23/2007	21:15:00	2.4	314	8.38	11.15	97.4
1/23/2007	21:30:00	2.4	310	8.41	11.12	97.1
1/23/2007	21:45:00	2.4	307	8.43	11.16	97.5
1/23/2007	22:00:00	2.4	308	8.46	11.14	97.2
1/23/2007	22:15:00	2.4	307	8.48	11.18	97.5
1/23/2007	22:30:00	2.4	307	8.51	11.18	97.5
1/23/2007	22:45:00	2.4	306	8.54	11.15	97.2
1/23/2007	23:00:00	2.4	303	8.57	11.19	97.6
1/23/2007	23:15:00	2.4	299	8.60	11.20	97.7
1/23/2007	23:30:00	2.4	295	8.63	11.18	97.5
1/23/2007	23:45:00	2.4	290	8.66	11.20	97.7
1/24/2007	0:00:00	2.4	286	8.69	11.14	97.2
1/24/2007	0:15:00	2.4	281	8.72	11.16	97.5
1/24/2007	0:30:00	2.4	278	8.75	11.17	97.6
1/24/2007	0:45:00	2.4	275	8.77	11.17	97.6
1/24/2007	1:00:00	2.5	274	8.80	11.16	97.5
1/24/2007	1:15:00	2.5	272	8.82	11.13	97.2
1/24/2007	1:30:00	2.5	270	8.84	11.11	97.1
1/24/2007	1:45:00	2.5	268	8.86	11.11	97.1
1/24/2007	2:00:00	2.5	265	8.88	11.09	96.9
1/24/2007	2:15:00	2.5	263	8.88	11.09	96.9
1/24/2007	2:30:00	2.5	261	8.90	11.09	96.9
1/24/2007	2:45:00	2.4	260	8.91	11.08	96.8
1/24/2007	3:00:00	2.4	258	8.93	11.08	96.8
1/24/2007	3:15:00	2.4	257	8.94	11.05	96.5
1/24/2007	3:30:00	2.4	255	8.94	10.98	95.9
1/24/2007	3:45:00	2.4	255	8.93	11.00	96.0
1/24/2007	4:00:00	2.4	255	8.92	11.00	95.9
1/24/2007	4:15:00	2.3	254	8.91	11.03	96.0
1/24/2007	4:30:00	2.3	254	8.90	10.99	95.6
1/24/2007	4:45:00	2.2	255	8.89	10.97	95.2
1/24/2007	5:00:00	2.2	255	8.87	10.97	95.1
1/24/2007	5:15:00	2.1	254	8.85	10.97	94.9
1/24/2007	5:30:00	2.0	254	8.82	10.97	94.7
1/24/2007	5:45:00	1.9	254	8.79	10.94	94.3
1/24/2007	6:00:00	1.9	254	8.76	10.95	94.1
1/24/2007	6:15:00	1.8	253	8.72	10.96	94.0
1/24/2007	6:30:00	1.7	254	8.69	10.96	93.7
1/24/2007	6:45:00	1.6	253	8.65	10.99	93.7
1/24/2007	7:00:00	1.5	253	8.60	10.97	93.3
1/24/2007	7:15:00	1.4	254	8.56	11.00	93.2
1/24/2007	7:30:00	1.3	254	8.52	11.00	93.0
1/24/2007	7:45:00	1.2	254	8.48	11.05	93.2
1/24/2007	8:00:00	1.1	254	8.44	11.09	93.2
1/24/2007	8:15:00	1.0	254	8.41	11.14	93.4

Table 5.19. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2007	8:30:00	0.9	254	8.38	11.12	93.1
1/24/2007	8:45:00	0.9	254	8.35	11.20	93.6
1/24/2007	9:00:00	0.8	254	8.33	11.22	93.7
1/24/2007	9:15:00	0.8	253	8.31	11.24	93.9
1/24/2007	9:30:00	0.8	252	8.29	11.27	94.2
1/24/2007	9:45:00	0.9	253	8.27	11.31	94.6
1/24/2007	10:00:00	0.9	253	8.26	11.31	94.7
1/24/2007	10:15:00	1.0	252	8.25	11.31	94.9
1/24/2007	10:30:00	1.1	249	8.24	11.36	95.6
1/24/2007	10:45:00	1.3	246	8.23	11.34	95.8
1/24/2007	11:00:00	1.4	244	8.23	11.30	95.9
1/24/2007	11:15:00	1.5	243	8.22	11.32	96.4
1/24/2007	11:30:00	1.6	242	8.22	11.36	97.1
1/24/2007	11:45:00	1.8	241	8.21	11.33	97.2
1/24/2007	12:00:00	1.9	241	8.21	11.32	97.5
1/24/2007	12:15:00	2.1	241	8.21	11.33	98.0
1/24/2007	12:30:00	2.2	241	8.21	11.37	98.8
1/24/2007	12:45:00	2.4	241	8.20	11.32	98.7
1/24/2007	13:00:00	2.5	241	8.20	11.33	99.2
1/24/2007	13:15:00	2.7	241	8.20	11.31	99.4
1/24/2007	13:30:00	2.8	244	8.20	11.31	99.8
1/24/2007	13:45:00	2.9	248	8.20	11.26	99.7
1/24/2007	14:00:00	3.0	272	8.20	11.26	99.8
1/24/2007	14:15:00	3.0	303	8.20	11.21	99.6
1/24/2007	14:30:00	3.1	301	8.20	11.21	99.8
1/24/2007	14:45:00	3.3	283	8.20	11.22	100.2
1/24/2007	15:00:00	3.4	273	8.20	11.23	100.6
1/24/2007	15:15:00	3.4	272	8.20	11.21	100.6
1/24/2007	15:30:00	3.5	273	8.21	11.21	100.7
1/24/2007	15:45:00	3.5	275	8.21	11.17	100.5
1/24/2007	16:00:00	3.6	275	8.21	11.14	100.3
1/24/2007	16:15:00	3.6	275	8.21	11.08	99.8
1/24/2007	16:30:00	3.6	275	8.21	11.09	100.0
1/24/2007	16:45:00	3.6	277	8.22	11.10	100.0
1/24/2007	17:00:00	3.6	279	8.22	11.06	99.6
1/24/2007	17:15:00	3.5	281	8.22	11.02	99.2
1/24/2007	17:30:00	3.5	282	8.23	10.96	98.5
1/24/2007	17:45:00	3.5	286	8.23	10.91	97.9
1/24/2007	18:00:00	3.4	288	8.23	10.90	97.7
1/24/2007	18:15:00	3.4	288	8.24	10.93	97.9
1/24/2007	18:30:00	3.4	291	8.25	10.93	97.9
1/24/2007	18:45:00	3.3	304	8.26	10.92	97.6
1/24/2007	19:00:00	3.2	323	8.27	10.97	97.9
1/24/2007	19:15:00	3.2	334	8.28	10.95	97.6
1/24/2007	19:30:00	3.1	337	8.28	10.92	97.2
1/24/2007	19:45:00	3.1	334	8.29	10.95	97.4

Table 5.19. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2007	20:00:00	3.1	330	8.30	10.99	97.8
1/24/2007	20:15:00	3.1	328	8.32	11.02	97.9
1/24/2007	20:30:00	3.1	323	8.34	10.98	97.6
1/24/2007	20:45:00	3.1	320	8.36	10.97	97.5
1/24/2007	21:00:00	3.1	315	8.37	11.02	98.0
1/24/2007	21:15:00	3.1	309	8.40	11.04	98.1
1/24/2007	21:30:00	3.1	304	8.42	11.07	98.4
1/24/2007	21:45:00	3.1	300	8.44	10.99	97.8
1/24/2007	22:00:00	3.1	295	8.47	10.98	97.6
1/24/2007	22:15:00	3.1	291	8.49	10.98	97.6
1/24/2007	22:30:00	3.1	289	8.52	11.03	98.1
1/24/2007	22:45:00	3.1	287	8.55	11.06	98.4
1/24/2007	23:00:00	3.1	285	8.58	11.01	97.9
1/24/2007	23:15:00	3.1	282	8.61	11.02	98.0
1/24/2007	23:30:00	3.1	279	8.64	10.98	97.7
1/24/2007	23:45:00	3.1	276	8.66	10.99	97.8
1/25/2007	0:00:00	3.1	274	8.69	10.99	97.8
1/25/2007	0:15:00	3.2	271	8.72	10.93	97.3
1/25/2007	0:30:00	3.2	269	8.74	10.92	97.3
1/25/2007	0:45:00	3.2	268	8.76	10.95	97.6
1/25/2007	1:00:00	3.2	267	8.79	11.00	98.0
1/25/2007	1:15:00	3.2	264	8.81	10.96	97.7
1/25/2007	1:30:00	3.2	263	8.82	11.00	98.1
1/25/2007	1:45:00	3.2	263	8.84	10.92	97.4
1/25/2007	2:00:00	3.2	263	8.86	10.94	97.6
1/25/2007	2:15:00	3.2	261	8.87	10.92	97.4
1/25/2007	2:30:00	3.2	259	8.88	10.84	96.6
1/25/2007	2:45:00	3.2	257	8.89	10.79	96.2
1/25/2007	3:00:00	3.2	258	8.90	10.83	96.5
1/25/2007	3:15:00	3.2	258	8.90	10.82	96.4
1/25/2007	3:30:00	3.2	256	8.90	10.79	96.1
1/25/2007	3:45:00	3.1	254	8.90	10.78	96.0
1/25/2007	4:00:00	3.1	253	8.90	10.84	96.4
1/25/2007	4:15:00	3.1	255	8.90	10.83	96.2
1/25/2007	4:30:00	3.0	256	8.90	10.78	95.6
1/25/2007	4:45:00	3.0	256	8.88	10.78	95.5
1/25/2007	5:00:00	2.9	257	8.86	10.82	95.6
1/25/2007	5:15:00	2.8	257	8.84	10.81	95.3
1/25/2007	5:30:00	2.7	257	8.81	10.80	95.0
1/25/2007	5:45:00	2.6	257	8.78	10.82	95.0
1/25/2007	6:00:00	2.5	256	8.75	10.78	94.4
1/25/2007	6:15:00	2.4	256	8.71	10.82	94.5
1/25/2007	6:30:00	2.3	256	8.67	10.80	94.1
1/25/2007	6:45:00	2.2	257	8.63	10.83	94.0
1/25/2007	7:00:00	2.1	258	8.58	10.89	94.2
1/25/2007	7:15:00	2.0	258	8.54	10.86	93.7

Table 5.19. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2007	7:30:00	1.9	258	8.50	10.89	93.6
1/25/2007	7:45:00	1.7	258	8.45	10.92	93.6
1/25/2007	8:00:00	1.6	258	8.42	10.96	93.6
1/25/2007	8:15:00	1.5	258	8.38	10.98	93.5
1/25/2007	8:30:00	1.5	259	8.35	11.02	93.7
1/25/2007	8:45:00	1.4	259	8.32	11.04	93.6
1/25/2007	9:00:00	1.3	259	8.30	11.12	94.2
1/25/2007	9:15:00	1.3	259	8.27	11.17	94.6
1/25/2007	9:30:00	1.3	247	8.26	10.95	92.7
1/25/2007	9:45:00	1.3	198	8.23	11.02	93.3
1/25/2007	10:00:00	1.4	221	8.20	11.01	93.4
1/25/2007	10:15:00	1.5	198	8.19	11.06	94.0
1/25/2007	10:30:00	1.6	189	8.18	11.03	93.9
1/25/2007	10:45:00	1.7	217	8.17	11.04	94.3
1/25/2007	11:00:00	1.8	226	8.16	11.06	94.9
1/25/2007	11:15:00	1.9	220	8.16	11.05	95.1
1/25/2007	11:30:00	2.0	248	8.16	11.05	95.5
1/25/2007	11:45:00	2.2	259	8.15	11.10	96.3
1/25/2007	12:00:00	2.3	260	8.15	11.06	96.3
1/25/2007	12:15:00	2.5	265	8.15	11.06	96.6
1/25/2007	12:30:00	2.6	244	8.15	11.02	96.6
1/25/2007	12:45:00	2.7	262	8.15	11.01	97.0
1/25/2007	13:00:00	2.9	254	8.15	10.96	97.0
1/25/2007	13:15:00	3.1	261	8.15	10.99	97.6
1/25/2007	13:30:00	3.2	263	8.15	10.97	97.9
1/25/2007	13:45:00	3.3	264	8.15	10.99	98.3
1/25/2007	14:00:00	3.5	264	8.16	10.96	98.4
1/25/2007	14:15:00	3.6	267	8.16	10.95	98.6
1/25/2007	14:30:00	3.7	271	8.16	10.96	98.9
1/25/2007	14:45:00	3.7	273	8.17	10.94	98.9
1/25/2007	15:00:00	3.8	271	8.17	10.91	98.8
1/25/2007	15:15:00	3.8	280	8.18	10.91	99.0
1/25/2007	15:30:00	3.9	282	8.18	10.87	98.8
1/25/2007	15:45:00	3.9	285	8.18	10.87	98.8
1/25/2007	16:00:00	4.0	274	8.19	10.82	98.5
1/25/2007	16:15:00	4.0	287	8.18	10.81	98.4
1/25/2007	16:30:00	4.0	293	8.20	10.79	98.3
1/25/2007	16:45:00	4.0	291	8.19	10.76	98.0
1/25/2007	17:00:00	4.0	289	8.21	10.77	98.0
1/25/2007	17:15:00	3.9	293	8.20	10.76	97.9
1/25/2007	17:30:00	3.9	296	8.22	10.69	97.2
1/25/2007	17:45:00	3.9	298	8.22	10.69	97.1
1/25/2007	18:00:00	3.8	309	8.23	10.73	97.3
1/25/2007	18:15:00	3.8	312	8.24	10.68	96.8
1/25/2007	18:30:00	3.8	315	8.24	10.66	96.6
1/25/2007	18:45:00	3.8	316	8.25	10.69	96.8

Table 5.19. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2007	19:00:00	3.7	315	8.26	10.64	96.2
1/25/2007	19:15:00	3.7	319	8.27	10.67	96.4
1/25/2007	19:30:00	3.7	319	8.28	10.67	96.3
1/25/2007	19:45:00	3.6	316	8.29	10.70	96.5
1/25/2007	20:00:00	3.6	307	8.31	10.72	96.6
1/25/2007	20:15:00	3.6	290	8.32	10.70	96.4
1/25/2007	20:30:00	3.5	266	8.34	10.68	96.1
1/25/2007	20:45:00	3.5	300	8.36	10.71	96.3
1/25/2007	21:00:00	3.5	304	8.38	10.79	97.0
1/25/2007	21:15:00	3.5	303	8.40	10.84	97.3
1/25/2007	21:30:00	3.4	297	8.42	10.80	96.9
1/25/2007	21:45:00	3.4	292	8.45	10.83	97.1
1/25/2007	22:00:00	3.4	289	8.47	10.84	97.2
1/25/2007	22:15:00	3.4	285	8.50	10.82	96.9
1/25/2007	22:30:00	3.3	284	8.53	10.83	97.0
1/25/2007	22:45:00	3.3	286	8.56	10.81	96.7
1/25/2007	23:00:00	3.3	283	8.59	10.86	97.1
1/25/2007	23:15:00	3.3	281	8.61	10.86	97.1
1/25/2007	23:30:00	3.3	279	8.65	10.82	96.7
1/25/2007	23:45:00	3.3	275	8.68	10.86	97.0
1/26/2007	0:00:00	3.2	274	8.70	10.82	96.6
1/26/2007	0:15:00	3.2	272	8.73	10.82	96.6
1/26/2007	0:30:00	3.2	273	8.75	10.82	96.6
1/26/2007	0:45:00	3.2	271	8.77	10.82	96.6
1/26/2007	1:00:00	3.2	265	8.80	10.81	96.4
1/26/2007	1:15:00	3.2	262	8.82	10.77	96.1
1/26/2007	1:30:00	3.2	262	8.83	10.75	95.9
1/26/2007	1:45:00	3.2	265	8.85	10.76	95.9
1/26/2007	2:00:00	3.2	264	8.87	10.75	95.8
1/26/2007	2:15:00	3.2	264	8.88	10.70	95.3
1/26/2007	2:30:00	3.2	264	8.89	10.72	95.5
1/26/2007	2:45:00	3.1	263	8.90	10.66	94.9
1/26/2007	3:00:00	3.1	261	8.91	10.62	94.5
1/26/2007	3:15:00	3.1	262	8.91	10.69	95.1
1/26/2007	3:30:00	3.1	263	8.91	10.66	94.7
1/26/2007	3:45:00	3.1	263	8.91	10.64	94.5
1/26/2007	4:00:00	3.0	260	8.90	10.64	94.4
1/26/2007	4:15:00	3.0	259	8.89	10.63	94.2
1/26/2007	4:30:00	2.9	260	8.88	10.64	94.1
1/26/2007	4:45:00	2.9	263	8.86	10.67	94.3
1/26/2007	5:00:00	2.8	259	8.84	10.61	93.5
1/26/2007	5:15:00	2.7	261	8.82	10.58	93.0
1/26/2007	5:30:00	2.6	259	8.79	10.58	92.9
1/26/2007	5:45:00	2.5	263	8.76	10.58	92.6
1/26/2007	6:00:00	2.4	261	8.73	10.57	92.3
1/26/2007	6:15:00	2.3	265	8.69	10.61	92.4

Table 5.19. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2007	6:30:00	2.2	259	8.65	10.59	91.9
1/26/2007	6:45:00	2.1	260	8.61	10.65	92.1
1/26/2007	7:00:00	2.0	260	8.57	10.67	92.0
1/26/2007	7:15:00	1.9	261	8.53	10.69	91.9
1/26/2007	7:30:00	1.7	260	8.49	10.70	91.7
1/26/2007	7:45:00	1.6	262	8.45	10.70	91.4
1/26/2007	8:00:00	1.5	261	8.41	10.76	91.6
1/26/2007	8:15:00	1.4	259	8.37	10.82	91.8
1/26/2007	8:30:00	1.3	259	8.33	10.82	91.7
1/26/2007	8:45:00	1.3	260	8.30	10.85	91.8
1/26/2007	9:00:00	1.2	259	8.24	11.19	94.6

Table 5.20. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during February 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:22:02
Report from file:	...\SN45475 2007-01-22 100000 Site3_1_21_2007.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45475	
Firmware Version	1.58	
Unit name:	Athena	
Barometric Pressure:		629.511
Test defined on:	1/21/2007	17:11:49
Test scheduled for:	1/22/2007	10:00:00
Test started on:	1/22/2007	10:00:00
Test stopped on:	4/13/2007	5:01:47
Data gathered using linear testing		
Time between data points		900 seconds
Number of data samples:		7757

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
2/2/2007	13:15:00	2.3	11.38	100.1
2/2/2007	13:30:00	2.4	11.38	100.5
2/2/2007	13:45:00	2.5	11.38	100.9
2/2/2007	14:00:00	2.6	11.39	101.2
2/2/2007	14:15:00	2.7	11.38	101.3
2/2/2007	14:30:00	2.7	11.38	101.5
2/2/2007	14:45:00	2.8	11.38	101.5
2/2/2007	15:00:00	2.8	11.37	101.6
2/2/2007	15:15:00	2.8	11.37	101.6
2/2/2007	15:30:00	2.9	11.36	101.7
2/2/2007	15:45:00	2.9	11.36	101.7
2/2/2007	16:00:00	2.9	11.35	101.7
2/2/2007	16:15:00	2.9	11.36	101.7
2/2/2007	16:30:00	2.9	11.36	101.6
2/2/2007	16:45:00	2.8	11.35	101.4
2/2/2007	17:00:00	2.8	11.34	101.1
2/2/2007	17:15:00	2.7	11.32	100.9
2/2/2007	17:30:00	2.6	11.32	100.6
2/2/2007	17:45:00	2.6	11.31	100.4
2/2/2007	18:00:00	2.5	11.30	100.2
2/2/2007	18:15:00	2.5	11.29	100.1
2/2/2007	18:30:00	2.5	11.28	99.9
2/2/2007	18:45:00	2.5	11.28	99.9
2/2/2007	19:00:00	2.4	11.29	99.8
2/2/2007	19:15:00	2.4	11.30	99.8
2/2/2007	19:30:00	2.4	11.30	99.8
2/2/2007	19:45:00	2.3	11.31	99.8
2/2/2007	20:00:00	2.3	11.32	99.7
2/2/2007	20:15:00	2.2	11.34	99.7

Table 5.20. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during February 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/2/2007	20:30:00	2.2	11.35	99.6
2/2/2007	20:45:00	2.1	11.37	99.7
2/2/2007	21:00:00	2.1	11.38	99.7
2/2/2007	21:15:00	2.0	11.40	99.6
2/2/2007	21:30:00	2.0	11.41	99.7
2/2/2007	21:45:00	2.0	11.43	99.7
2/2/2007	22:00:00	2.0	11.44	99.8
2/2/2007	22:15:00	2.0	11.44	99.9
2/2/2007	22:30:00	2.0	11.44	99.9
2/2/2007	22:45:00	2.0	11.44	99.9
2/2/2007	23:00:00	1.9	11.44	99.9
2/2/2007	23:15:00	1.9	11.44	99.7
2/2/2007	23:30:00	1.9	11.44	99.6
2/2/2007	23:45:00	1.8	11.44	99.4
2/3/2007	0:00:00	1.8	11.44	99.4
2/3/2007	0:15:00	1.8	11.43	99.3
2/3/2007	0:30:00	1.8	11.43	99.3
2/3/2007	0:45:00	1.8	11.42	99.3
2/3/2007	1:00:00	1.8	11.42	99.4
2/3/2007	1:15:00	1.9	11.41	99.3
2/3/2007	1:30:00	1.9	11.40	99.3
2/3/2007	1:45:00	1.9	11.38	99.2
2/3/2007	2:00:00	1.9	11.37	99.1
2/3/2007	2:15:00	2.0	11.35	99.1
2/3/2007	2:30:00	2.0	11.33	99.0
2/3/2007	2:45:00	2.0	11.31	98.8
2/3/2007	3:00:00	2.0	11.30	98.7
2/3/2007	3:15:00	2.0	11.28	98.6
2/3/2007	3:30:00	2.0	11.26	98.4
2/3/2007	3:45:00	2.0	11.25	98.3
2/3/2007	4:00:00	2.0	11.23	98.1
2/3/2007	4:15:00	2.0	11.22	97.9
2/3/2007	4:30:00	1.9	11.20	97.7
2/3/2007	4:45:00	1.9	11.18	97.5
2/3/2007	5:00:00	1.9	11.17	97.3
2/3/2007	5:15:00	1.9	11.15	97.1
2/3/2007	5:30:00	1.8	11.14	96.8
2/3/2007	5:45:00	1.7	11.13	96.6
2/3/2007	6:00:00	1.7	11.12	96.3
2/3/2007	6:15:00	1.6	11.12	96.1
2/3/2007	6:30:00	1.5	11.12	95.8
2/3/2007	6:45:00	1.4	11.12	95.5
2/3/2007	7:00:00	1.3	11.13	95.4
2/3/2007	7:15:00	1.2	11.14	95.2
2/3/2007	7:30:00	1.1	11.15	95.1
2/3/2007	7:45:00	1.0	11.17	94.9
2/3/2007	8:00:00	0.9	11.19	94.9

Table 5.20. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during February 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/3/2007	8:15:00	0.8	11.22	94.9
2/3/2007	8:30:00	0.8	11.25	95.1
2/3/2007	8:45:00	0.8	11.28	95.3
2/3/2007	9:00:00	0.8	11.31	95.5
2/3/2007	9:15:00	0.8	11.34	95.8
2/3/2007	9:30:00	0.8	11.37	96.2
2/3/2007	9:45:00	0.9	11.40	96.6
2/3/2007	10:00:00	1.0	11.42	97.0
2/3/2007	10:15:00	1.1	11.44	97.5
2/3/2007	10:30:00	1.2	11.46	98.0
2/3/2007	10:45:00	1.3	11.47	98.4
2/3/2007	11:00:00	1.5	11.48	98.9
2/3/2007	11:15:00	1.6	11.49	99.4
2/3/2007	11:30:00	1.8	11.49	99.9
2/3/2007	11:45:00	2.0	11.49	100.3
2/3/2007	12:00:00	2.1	11.50	100.7
2/3/2007	12:15:00	2.3	11.49	101.1
2/3/2007	12:30:00	2.4	11.49	101.5
2/3/2007	12:45:00	2.6	11.49	101.9
2/3/2007	13:00:00	2.7	11.48	102.3
2/3/2007	13:15:00	2.8	11.48	102.6
2/3/2007	13:30:00	3.0	11.47	102.9
2/3/2007	13:45:00	3.1	11.46	103.2
2/3/2007	14:00:00	3.2	11.45	103.5
2/3/2007	14:15:00	3.3	11.44	103.7
2/3/2007	14:30:00	3.4	11.43	103.9
2/3/2007	14:45:00	3.5	11.42	104.1
2/3/2007	15:00:00	3.6	11.41	104.2
2/3/2007	15:15:00	3.7	11.41	104.4
2/3/2007	15:30:00	3.7	11.40	104.3
2/3/2007	15:45:00	3.7	11.39	104.3
2/3/2007	16:00:00	3.8	11.37	104.2
2/3/2007	16:15:00	3.8	11.37	104.2
2/3/2007	16:30:00	3.7	11.36	104.1
2/3/2007	16:45:00	3.7	11.35	103.9
2/3/2007	17:00:00	3.7	11.33	103.6
2/3/2007	17:15:00	3.6	11.31	103.3
2/3/2007	17:30:00	3.6	11.29	103.0
2/3/2007	17:45:00	3.5	11.26	102.5
2/3/2007	18:00:00	3.5	11.24	102.3
2/3/2007	18:15:00	3.4	11.23	102.1
2/3/2007	18:30:00	3.4	11.23	101.9
2/3/2007	18:45:00	3.4	11.23	101.9
2/3/2007	19:00:00	3.4	11.23	101.8
2/3/2007	19:15:00	3.3	11.23	101.8
2/3/2007	19:30:00	3.3	11.23	101.6
2/3/2007	19:45:00	3.2	11.24	101.5

Table 5.20. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during February 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/3/2007	20:00:00	3.2	11.25	101.5
2/3/2007	20:15:00	3.2	11.26	101.6
2/3/2007	20:30:00	3.2	11.27	101.7
2/3/2007	20:45:00	3.2	11.28	101.8
2/3/2007	21:00:00	3.1	11.30	101.8
2/3/2007	21:15:00	3.1	11.31	101.8
2/3/2007	21:30:00	3.1	11.32	101.9
2/3/2007	21:45:00	3.1	11.33	101.9
2/3/2007	22:00:00	3.0	11.34	101.9
2/3/2007	22:15:00	3.0	11.35	102.0
2/3/2007	22:30:00	3.0	11.35	102.0
2/3/2007	22:45:00	3.0	11.34	101.9
2/3/2007	23:00:00	3.0	11.33	101.8
2/3/2007	23:15:00	3.0	11.33	101.7
2/3/2007	23:30:00	3.0	11.31	101.6
2/3/2007	23:45:00	3.0	11.30	101.6
2/4/2007	0:00:00	3.1	11.29	101.5
2/4/2007	0:15:00	3.1	11.27	101.5
2/4/2007	0:30:00	3.1	11.26	101.5
2/4/2007	0:45:00	3.2	11.25	101.5
2/4/2007	1:00:00	3.2	11.23	101.4
2/4/2007	1:15:00	3.2	11.22	101.3
2/4/2007	1:30:00	3.2	11.20	101.2
2/4/2007	1:45:00	3.2	11.19	101.1
2/4/2007	2:00:00	3.2	11.17	100.9
2/4/2007	2:15:00	3.2	11.15	100.7
2/4/2007	2:30:00	3.2	11.13	100.5
2/4/2007	2:45:00	3.2	11.11	100.3
2/4/2007	3:00:00	3.2	11.09	100.2
2/4/2007	3:15:00	3.2	11.07	100.0
2/4/2007	3:30:00	3.2	11.06	99.7
2/4/2007	3:45:00	3.2	11.04	99.6
2/4/2007	4:00:00	3.2	11.03	99.4
2/4/2007	4:15:00	3.1	11.01	99.2
2/4/2007	4:30:00	3.1	11.00	99.0
2/4/2007	4:45:00	3.0	10.99	98.7
2/4/2007	5:00:00	3.0	10.97	98.5
2/4/2007	5:15:00	2.9	10.96	98.2
2/4/2007	5:30:00	2.8	10.96	98.0
2/4/2007	5:45:00	2.7	10.95	97.7
2/4/2007	6:00:00	2.7	10.95	97.4
2/4/2007	6:15:00	2.5	10.95	97.1
2/4/2007	6:30:00	2.4	10.95	96.9
2/4/2007	6:45:00	2.3	10.96	96.7
2/4/2007	7:00:00	2.2	10.97	96.5
2/4/2007	7:15:00	2.1	10.98	96.3
2/4/2007	7:30:00	2.0	11.00	96.1

Table 5.20. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during February 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/4/2007	7:45:00	1.9	11.02	96.1
2/4/2007	8:00:00	1.8	11.05	96.0
2/4/2007	8:15:00	1.7	11.08	96.0
2/4/2007	8:30:00	1.6	11.12	96.2
2/4/2007	8:45:00	1.6	11.16	96.4
2/4/2007	9:00:00	1.6	11.20	96.8
2/4/2007	9:15:00	1.6	11.24	97.2
2/4/2007	9:30:00	1.7	11.27	97.6
2/4/2007	9:45:00	1.7	11.30	98.1
2/4/2007	10:00:00	1.8	11.34	98.6
2/4/2007	10:15:00	1.9	11.36	99.1
2/4/2007	10:30:00	2.0	11.39	99.6
2/4/2007	10:45:00	2.1	11.41	100.0
2/4/2007	11:00:00	2.3	11.42	100.5
2/4/2007	11:15:00	2.4	11.43	101.0
2/4/2007	11:30:00	2.5	11.44	101.4
2/4/2007	11:45:00	2.7	11.45	101.9
2/4/2007	12:00:00	2.8	11.46	102.4
2/4/2007	12:15:00	3.0	11.46	102.8
2/4/2007	12:30:00	3.2	11.46	103.3
2/4/2007	12:45:00	3.3	11.46	103.7
2/4/2007	13:00:00	3.4	11.46	104.1
2/4/2007	13:15:00	3.5	11.45	104.3
2/4/2007	13:30:00	3.6	11.45	104.6
2/4/2007	13:45:00	3.8	11.44	104.8
2/4/2007	14:00:00	3.9	11.43	105.1
2/4/2007	14:15:00	4.0	11.43	105.4
2/4/2007	14:30:00	4.1	11.42	105.6
2/4/2007	14:45:00	4.2	11.42	105.9
2/4/2007	15:00:00	4.3	11.41	106.1
2/4/2007	15:15:00	4.4	11.41	106.3
2/4/2007	15:30:00	4.4	11.40	106.3
2/4/2007	15:45:00	4.5	11.39	106.4
2/4/2007	16:00:00	4.5	11.38	106.3
2/4/2007	16:15:00	4.5	11.37	106.2
2/4/2007	16:30:00	4.5	11.36	106.2
2/4/2007	16:45:00	4.5	11.35	106.0
2/4/2007	17:00:00	4.5	11.33	105.8
2/4/2007	17:15:00	4.4	11.31	105.4
2/4/2007	17:30:00	4.4	11.28	105.1
2/4/2007	17:45:00	4.3	11.26	104.8
2/4/2007	18:00:00	4.3	11.23	104.5
2/4/2007	18:15:00	4.3	11.15	103.8
2/4/2007	18:30:00	4.3	11.11	103.3
2/4/2007	18:45:00	4.3	11.10	103.1
2/4/2007	19:00:00	4.2	11.10	103.0
2/4/2007	19:15:00	4.2	11.11	102.9

Table 5.20. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during February 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/4/2007	19:30:00	4.1	11.12	102.9
2/4/2007	19:45:00	4.1	11.13	102.9
2/4/2007	20:00:00	4.0	11.14	102.9
2/4/2007	20:15:00	4.0	11.15	102.9
2/4/2007	20:30:00	4.0	11.16	102.9
2/4/2007	20:45:00	4.0	11.17	103.0
2/4/2007	21:00:00	4.0	11.19	103.1
2/4/2007	21:15:00	4.0	11.20	103.2
2/4/2007	21:30:00	4.0	11.21	103.3
2/4/2007	21:45:00	4.0	11.22	103.3
2/4/2007	22:00:00	4.0	11.22	103.3
2/4/2007	22:15:00	4.0	11.22	103.4
2/4/2007	22:30:00	4.0	11.21	103.3
2/4/2007	22:45:00	4.0	11.21	103.3
2/4/2007	23:00:00	4.0	11.20	103.2
2/4/2007	23:15:00	4.0	11.18	103.0
2/4/2007	23:30:00	4.0	11.17	103.0
2/4/2007	23:45:00	4.0	11.16	102.9
2/5/2007	0:00:00	4.0	11.14	102.8
2/5/2007	0:15:00	4.0	11.13	102.7
2/5/2007	0:30:00	4.0	11.12	102.6
2/5/2007	0:45:00	4.1	11.10	102.5
2/5/2007	1:00:00	4.1	11.08	102.5
2/5/2007	1:15:00	4.1	11.07	102.3
2/5/2007	1:30:00	4.1	11.04	102.2
2/5/2007	1:45:00	4.1	11.02	102.0
2/5/2007	2:00:00	4.1	11.00	101.9
2/5/2007	2:15:00	4.2	10.98	101.7
2/5/2007	2:30:00	4.1	10.96	101.5
2/5/2007	2:45:00	4.1	10.94	101.3
2/5/2007	3:00:00	4.1	10.92	101.1
2/5/2007	3:15:00	4.1	10.90	100.9
2/5/2007	3:30:00	4.1	10.89	100.7
2/5/2007	3:45:00	4.1	10.87	100.5
2/5/2007	4:00:00	4.1	10.86	100.3
2/5/2007	4:15:00	4.0	10.85	100.1
2/5/2007	4:30:00	4.0	10.84	99.9
2/5/2007	4:45:00	3.9	10.82	99.6
2/5/2007	5:00:00	3.8	10.82	99.4
2/5/2007	5:15:00	3.7	10.81	99.0
2/5/2007	5:30:00	3.6	10.81	98.7
2/5/2007	5:45:00	3.5	10.82	98.5
2/5/2007	6:00:00	3.4	10.81	98.2
2/5/2007	6:15:00	3.3	10.82	98.0
2/5/2007	6:30:00	3.2	10.82	97.7
2/5/2007	6:45:00	3.1	10.83	97.4
2/5/2007	7:00:00	2.9	10.85	97.2

Table 5.20. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during February 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/5/2007	7:15:00	2.8	10.86	97.0
2/5/2007	7:30:00	2.7	10.88	96.9
2/5/2007	7:45:00	2.6	10.91	96.8
2/5/2007	8:00:00	2.5	10.93	96.7
2/5/2007	8:15:00	2.4	10.97	96.8
2/5/2007	8:30:00	2.3	11.00	96.9
2/5/2007	8:45:00	2.2	11.04	97.1
2/5/2007	9:00:00	2.2	11.08	97.3
2/5/2007	9:15:00	2.2	11.11	97.6
2/5/2007	9:30:00	2.2	11.15	97.9
2/5/2007	9:45:00	2.2	11.18	98.3
2/5/2007	10:00:00	2.3	11.21	98.7
2/5/2007	10:15:00	2.4	11.24	99.2
2/5/2007	10:30:00	2.5	11.26	99.7
2/5/2007	10:45:00	2.6	11.28	100.1
2/5/2007	11:00:00	2.7	11.30	100.6
2/5/2007	11:15:00	2.8	11.32	101.2
2/5/2007	11:30:00	3.0	11.34	101.8
2/5/2007	11:45:00	3.2	11.34	102.3
2/5/2007	12:00:00	3.3	11.35	102.8
2/5/2007	12:15:00	3.5	11.35	103.3
2/5/2007	12:30:00	3.7	11.35	103.8
2/5/2007	12:45:00	3.8	11.36	104.2
2/5/2007	13:00:00	4.0	11.35	104.6
2/5/2007	13:15:00	4.1	11.35	105.1
2/5/2007	13:30:00	4.3	11.35	105.5
2/5/2007	13:45:00	4.4	11.35	105.9
2/5/2007	14:00:00	4.6	11.35	106.2
2/5/2007	14:15:00	4.7	11.34	106.5
2/5/2007	14:30:00	4.8	11.33	106.7
2/5/2007	14:45:00	4.9	11.32	106.9
2/5/2007	15:00:00	5.0	11.31	107.1
2/5/2007	15:15:00	5.1	11.30	107.2
2/5/2007	15:30:00	5.2	11.28	107.3
2/5/2007	15:45:00	5.2	11.27	107.3
2/5/2007	16:00:00	5.3	11.24	107.2
2/5/2007	16:15:00	5.3	11.21	107.1
2/5/2007	16:30:00	5.4	11.19	106.9
2/5/2007	16:45:00	5.4	11.11	106.3
2/5/2007	17:00:00	5.5	11.05	105.9
2/5/2007	17:15:00	5.4	11.02	105.6
2/5/2007	17:30:00	5.4	11.01	105.3
2/5/2007	17:45:00	5.4	11.00	105.2
2/5/2007	18:00:00	5.3	11.00	105.1
2/5/2007	18:15:00	5.3	11.00	104.9
2/5/2007	18:30:00	5.2	11.00	104.7
2/5/2007	18:45:00	5.2	11.00	104.7

Table 5.20. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during February 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/5/2007	19:00:00	5.2	10.99	104.5
2/5/2007	19:15:00	5.1	10.99	104.5
2/5/2007	19:30:00	5.1	10.99	104.3
2/5/2007	19:45:00	5.1	10.98	104.2
2/5/2007	20:00:00	5.0	10.98	104.1
2/5/2007	20:15:00	5.0	10.98	104.0
2/5/2007	20:30:00	5.0	10.99	103.9
2/5/2007	20:45:00	4.9	10.99	103.8
2/5/2007	21:00:00	4.9	11.00	103.8
2/5/2007	21:15:00	4.8	11.01	103.8
2/5/2007	21:30:00	4.8	11.01	103.7
2/5/2007	21:45:00	4.8	11.01	103.7
2/5/2007	22:00:00	4.8	11.01	103.6
2/5/2007	22:15:00	4.7	11.01	103.5
2/5/2007	22:30:00	4.7	11.01	103.4
2/5/2007	22:45:00	4.7	11.00	103.3
2/5/2007	23:00:00	4.6	10.99	103.1
2/5/2007	23:15:00	4.6	10.98	103.0
2/5/2007	23:30:00	4.6	10.97	102.8
2/5/2007	23:45:00	4.6	10.95	102.6
2/6/2007	0:00:00	4.6	10.94	102.4
2/6/2007	0:15:00	4.6	10.93	102.2
2/6/2007	0:30:00	4.5	10.91	102.1
2/6/2007	0:45:00	4.5	10.90	102.0
2/6/2007	1:00:00	4.5	10.89	101.9
2/6/2007	1:15:00	4.5	10.88	101.7
2/6/2007	1:30:00	4.5	10.87	101.6
2/6/2007	1:45:00	4.5	10.85	101.5
2/6/2007	2:00:00	4.5	10.84	101.3
2/6/2007	2:15:00	4.5	10.83	101.2
2/6/2007	2:30:00	4.5	10.81	101.0
2/6/2007	2:45:00	4.5	10.79	100.8
2/6/2007	3:00:00	4.5	10.77	100.6
2/6/2007	3:15:00	4.5	10.76	100.5
2/6/2007	3:30:00	4.5	10.74	100.3
2/6/2007	3:45:00	4.4	10.73	100.1
2/6/2007	4:00:00	4.4	10.71	99.9
2/6/2007	4:15:00	4.4	10.70	99.7
2/6/2007	4:30:00	4.3	10.69	99.5
2/6/2007	4:45:00	4.3	10.68	99.3
2/6/2007	5:00:00	4.3	10.67	99.1
2/6/2007	5:15:00	4.2	10.66	98.9
2/6/2007	5:30:00	4.2	10.65	98.7
2/6/2007	5:45:00	4.1	10.65	98.4
2/6/2007	6:00:00	4.0	10.65	98.2
2/6/2007	6:15:00	3.9	10.65	98.0
2/6/2007	6:30:00	3.8	10.65	97.8

Table 5.20. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during February 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/6/2007	6:45:00	3.7	10.65	97.6
2/6/2007	7:00:00	3.6	10.66	97.4
2/6/2007	7:15:00	3.5	10.67	97.2
2/6/2007	7:30:00	3.4	10.69	97.1
2/6/2007	7:45:00	3.3	10.71	97.0
2/6/2007	8:00:00	3.2	10.73	97.0
2/6/2007	8:15:00	3.2	10.77	97.1
2/6/2007	8:30:00	3.1	10.81	97.3
2/6/2007	8:45:00	3.0	10.85	97.5
2/6/2007	9:00:00	3.0	10.90	97.8
2/6/2007	9:15:00	3.0	10.94	98.2
2/6/2007	9:30:00	3.0	10.98	98.6
2/6/2007	9:45:00	3.0	11.02	98.9
2/6/2007	10:00:00	3.1	11.06	99.4
2/6/2007	10:15:00	3.1	11.09	99.9
2/6/2007	10:30:00	3.2	11.13	100.4
2/6/2007	10:45:00	3.3	11.16	100.9
2/6/2007	11:00:00	3.4	11.18	101.5
2/6/2007	11:15:00	3.5	11.20	101.9
2/6/2007	11:30:00	3.6	11.22	102.5

Table 5.21. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (see narrative for information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**SITE2-1-22-2007**
Setup	**Date**	**(MMDDYY)**	**:**	**1/21/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**19:17:45**
Starting	**Date**	**(MMDDYY)**	**:**	**1/22/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**12:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**1/27/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**12:00**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
1/22/2007	16:00:00	5.1	173	8.43	10.18	96.1
1/22/2007	16:15:00	5.1	165	8.42	10.23	96.4
1/22/2007	16:30:00	5.0	144	8.40	10.34	97.2
1/22/2007	16:45:00	4.9	165	8.39	9.42	88.3
1/22/2007	17:00:00	4.8	221	8.37	8.69	81.2
1/22/2007	17:15:00	4.6	131	8.36	8.24	76.8
1/22/2007	17:30:00	4.5	136	8.35	7.89	73.2
1/22/2007	17:45:00	4.4	230	8.34	7.83	72.5
1/22/2007	18:00:00	4.3	154	8.33	7.93	73.3
1/22/2007	18:15:00	4.2	160	8.32	7.79	71.7
1/22/2007	18:30:00	4.1	277	8.32	7.75	71.2
1/22/2007	18:45:00	3.9	162	8.30	7.70	70.4
1/22/2007	19:00:00	3.8	160	8.30	7.67	70.0
1/22/2007	19:15:00	3.7	164	8.29	7.56	68.8
1/22/2007	19:30:00	3.6	156	8.29	7.89	71.6
1/22/2007	19:45:00	3.6	166	8.28	9.35	84.7
1/22/2007	20:00:00	3.5	164	8.27	9.51	86.0
1/22/2007	20:15:00	3.4	164	8.27	9.58	86.5
1/22/2007	20:30:00	3.4	165	8.27	9.78	88.1
1/22/2007	20:45:00	3.3	159	8.26	10.51	94.6
1/22/2007	21:00:00	3.2	154	8.26	10.45	93.9
1/22/2007	21:15:00	3.2	158	8.25	8.57	76.8
1/22/2007	21:30:00	3.1	164	8.25	8.15	73.0
1/22/2007	21:45:00	3.0	178	8.25	8.69	77.6
1/22/2007	22:00:00	3.0	248	8.24	10.48	93.4
1/22/2007	22:15:00	2.9	262	8.24	10.72	95.3
1/22/2007	22:30:00	2.8	192	8.24	10.76	95.4
1/22/2007	22:45:00	2.7	191	8.24	10.79	95.5
1/22/2007	23:00:00	2.6	178	8.24	10.00	88.3
1/22/2007	23:15:00	2.5	214	8.23	10.17	89.6
1/22/2007	23:30:00	2.4	188	8.23	10.87	95.5
1/22/2007	23:45:00	2.3	154	8.23	10.94	95.9

Table 5.21. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico.
[Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (see narrative for information).]

1/23/2007	0:00:00	2.3	164	8.22	10.90	95.3
1/23/2007	0:15:00	2.2	162	8.22	10.82	94.4
1/23/2007	0:30:00	2.1	172	8.22	10.99	95.6
1/23/2007	0:45:00	2.0	178	8.23	10.75	93.4
1/23/2007	1:00:00	1.9	197	8.23	11.20	97.1
1/23/2007	1:15:00	1.9	224	8.23	10.94	94.7
1/23/2007	1:30:00	1.8	231	8.23	10.87	93.9
1/23/2007	1:45:00	1.8	177	8.23	10.80	93.2
1/23/2007	2:00:00	1.7	171	8.24	11.07	95.3
1/23/2007	2:15:00	1.6	178	8.24	11.06	95.1
1/23/2007	2:30:00	1.6	172	8.25	10.97	94.2
1/23/2007	2:45:00	1.5	168	8.25	10.47	89.7
1/23/2007	3:00:00	1.4	171	8.26	9.84	84.2
1/23/2007	3:15:00	1.4	163	8.26	9.04	77.1
1/23/2007	3:30:00	1.3	185	8.27	8.72	74.3
1/23/2007	3:45:00	1.2	200	8.28	8.72	74.2
1/23/2007	4:00:00	1.2	247	8.29	8.80	74.7
1/23/2007	4:15:00	1.1	239	8.31	8.89	75.3
1/23/2007	4:30:00	1.1	232	8.33	8.71	73.8
1/23/2007	4:45:00	1.0	210	8.34	8.57	72.4
1/23/2007	5:00:00	0.9	178	8.37	8.76	73.9
1/23/2007	5:15:00	0.9	187	8.38	8.48	71.4
1/23/2007	5:30:00	0.9	169	8.41	8.62	72.6
1/23/2007	5:45:00	0.9	150	8.44	9.20	77.4
1/23/2007	6:00:00	0.8	141	8.47	9.43	79.3
1/23/2007	6:15:00	0.8	141	8.49	9.45	79.4
1/23/2007	6:30:00	0.8	138	8.52	9.28	77.9
1/23/2007	6:45:00	0.8	137	8.55	8.64	72.5
1/23/2007	7:00:00	0.7	137	8.57	8.39	70.3
1/23/2007	7:15:00	0.7	136	8.59	8.67	72.6
1/23/2007	7:30:00	0.7	136	8.62	8.63	72.3
1/23/2007	7:45:00	0.7	135	8.64	8.70	72.9
1/23/2007	8:00:00	0.7	141	8.65	8.59	72.0
1/23/2007	8:15:00	0.7	138	8.68	8.69	72.9
1/23/2007	8:30:00	0.8	138	8.70	8.95	75.1
1/23/2007	8:45:00	0.8	147	8.71	9.02	75.8
1/23/2007	9:00:00	0.9	147	8.73	8.98	75.7
1/23/2007	9:15:00	1.1	154	8.73	8.77	74.2
1/23/2007	9:30:00	1.2	158	8.74	9.04	76.8
1/23/2007	9:45:00	1.3	182	8.73	9.13	77.8
1/23/2007	10:00:00	1.5	180	8.74	9.28	79.4
1/23/2007	10:15:00	1.6	184	8.73	9.39	80.8
1/23/2007	10:30:00	1.8	180	8.72	9.23	79.8
1/23/2007	10:45:00	2.0	179	8.72	9.37	81.5
1/23/2007	11:00:00	2.2	181	8.71	9.22	80.5
1/23/2007	11:15:00	2.4	176	8.69	9.30	81.6

Table 5.21. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico.
[Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (see narrative for information).]

1/23/2007	11:30:00	2.5	172	8.67	9.34	82.3
1/23/2007	11:45:00	2.7	176	8.65	10.10	89.3
1/23/2007	12:00:00	2.8	187	8.63	9.86	87.6
1/23/2007	12:15:00	2.9	181	8.61	9.46	84.3
1/23/2007	12:30:00	3.1	182	8.60	8.89	79.6
1/23/2007	12:45:00	3.2	172	8.57	8.56	76.9
1/23/2007	13:00:00	3.4	176	8.54	8.77	79.0
1/23/2007	13:15:00	3.5	167	8.52	9.34	84.4
1/23/2007	13:30:00	3.6	158	8.49	11.19	101.4
1/23/2007	13:45:00	3.7	152	8.45	11.12	100.9
1/23/2007	14:00:00	3.7	160	8.41	11.11	101.1
1/23/2007	14:15:00	3.8	172	8.39	10.99	100.3
1/23/2007	14:30:00	3.9	172	8.37	10.96	100.1
1/23/2007	14:45:00	3.9	168	8.34	10.98	100.4
1/23/2007	15:00:00	3.9	178	8.32	10.96	100.2
1/23/2007	15:15:00	4.0	173	8.30	10.96	100.3
1/23/2007	15:30:00	4.0	156	8.28	11.00	100.8
1/23/2007	15:45:00	3.9	154	8.27	11.07	101.3
1/23/2007	16:00:00	3.9	155	8.26	11.06	101.1
1/23/2007	16:15:00	3.8	154	8.24	11.01	100.5
1/23/2007	16:30:00	3.8	157	8.24	10.95	99.8
1/23/2007	16:45:00	3.7	161	8.23	10.87	98.8
1/23/2007	17:00:00	3.6	170	8.24	10.89	98.7
1/23/2007	17:15:00	3.5	173	8.23	10.92	98.7
1/23/2007	17:30:00	3.4	170	8.21	10.94	98.7
1/23/2007	17:45:00	3.3	173	8.21	10.87	97.8
1/23/2007	18:00:00	3.2	171	8.21	10.94	98.2
1/23/2007	18:15:00	3.1	170	8.21	10.89	97.6
1/23/2007	18:30:00	3.1	171	8.20	10.81	96.6
1/23/2007	18:45:00	3.0	179	8.20	10.90	97.2
1/23/2007	19:00:00	2.9	182	8.20	10.91	97.1
1/23/2007	19:15:00	2.8	183	8.20	10.92	97.0
1/23/2007	19:30:00	2.8	186	8.21	10.83	96.1
1/23/2007	19:45:00	2.7	187	8.20	10.93	96.9
1/23/2007	20:00:00	2.7	175	8.20	10.96	97.0
1/23/2007	20:15:00	2.6	167	8.19	11.01	97.2
1/23/2007	20:30:00	2.6	165	8.19	10.92	96.3
1/23/2007	20:45:00	2.5	165	8.19	10.93	96.2
1/23/2007	21:00:00	2.5	165	8.17	10.96	96.4
1/23/2007	21:15:00	2.4	168	8.16	10.92	95.9
1/23/2007	21:30:00	2.4	170	8.16	10.93	95.9
1/23/2007	21:45:00	2.3	176	8.16	10.95	95.9
1/23/2007	22:00:00	2.3	180	8.16	10.87	95.0
1/23/2007	22:15:00	2.2	182	8.16	11.00	96.1
1/23/2007	22:30:00	2.2	184	8.16	10.88	94.9
1/23/2007	22:45:00	2.1	186	8.16	10.80	94.1

Table 5.21. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico.
[Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (see narrative for information).]

1/23/2007	23:00:00	2.1	202	8.16	10.73	93.4
1/23/2007	23:15:00	2.0	226	8.17	10.78	93.7
1/23/2007	23:30:00	2.0	244	8.17	10.78	93.6
1/23/2007	23:45:00	1.9	269	8.17	10.85	94.1
1/24/2007	0:00:00	1.9	286	8.17	10.81	93.6
1/24/2007	0:15:00	1.8	286	8.17	10.79	93.3
1/24/2007	0:30:00	1.8	294	8.17	10.60	91.5
1/24/2007	0:45:00	1.8	298	8.17	10.47	90.3
1/24/2007	1:00:00	1.7	303	8.17	10.45	90.2
1/24/2007	1:15:00	1.7	302	8.17	10.30	88.8
1/24/2007	1:30:00	1.7	299	8.18	10.37	89.3
1/24/2007	1:45:00	1.6	293	8.18	10.39	89.4
1/24/2007	2:00:00	1.6	288	8.19	10.17	87.4
1/24/2007	2:15:00	1.6	276	8.19	10.22	87.8
1/24/2007	2:30:00	1.6	271	8.20	10.24	87.8
1/24/2007	2:45:00	1.5	259	8.21	10.16	87.0
1/24/2007	3:00:00	1.5	262	8.21	10.13	86.7
1/24/2007	3:15:00	1.4	255	8.22	10.10	86.3
1/24/2007	3:30:00	1.4	256	8.23	10.07	86.0
1/24/2007	3:45:00	1.3	256	8.24	10.03	85.5
1/24/2007	4:00:00	1.3	253	8.25	10.06	85.7
1/24/2007	4:15:00	1.3	254	8.26	10.10	86.0
1/24/2007	4:30:00	1.2	252	8.28	10.08	85.7
1/24/2007	4:45:00	1.2	253	8.31	9.92	84.3
1/24/2007	5:00:00	1.2	255	8.34	9.90	84.0
1/24/2007	5:15:00	1.1	254	8.35	9.84	83.5
1/24/2007	5:30:00	1.1	256	8.36	9.85	83.5
1/24/2007	5:45:00	1.1	267	8.38	9.71	82.2
1/24/2007	6:00:00	1.1	276	8.41	9.59	81.3
1/24/2007	6:15:00	1.1	277	8.43	9.58	81.2
1/24/2007	6:30:00	1.1	276	8.45	9.49	80.4
1/24/2007	6:45:00	1.1	280	8.46	9.27	78.5
1/24/2007	7:00:00	1.1	283	8.48	9.39	79.6
1/24/2007	7:15:00	1.1	281	8.52	9.16	77.6
1/24/2007	7:30:00	1.1	275	8.54	9.31	78.9
1/24/2007	7:45:00	1.1	273	8.56	9.45	80.0
1/24/2007	8:00:00	1.1	279	8.66	11.02	93.4
1/24/2007	8:15:00	1.1	277	8.68	10.97	93.0
1/24/2007	8:30:00	1.2	273	8.70	10.98	93.2
1/24/2007	8:45:00	1.2	264	8.71	10.96	93.2
1/24/2007	9:00:00	1.4	255	8.72	10.92	93.2
1/24/2007	9:15:00	1.5	245	8.72	10.92	93.5
1/24/2007	9:30:00	1.6	230	8.73	10.94	94.0
1/24/2007	9:45:00	1.8	222	8.74	10.91	94.2
1/24/2007	10:00:00	1.9	219	8.73	10.83	93.9
1/24/2007	10:15:00	2.2	216	8.72	10.83	94.6

Table 5.21. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico.
[Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (see narrative for information).]

1/24/2007	10:30:00	2.4	214	8.72	10.71	93.9
1/24/2007	10:45:00	2.5	213	8.71	10.79	95.1
1/24/2007	11:00:00	2.7	213	8.70	10.79	95.6
1/24/2007	11:15:00	2.9	214	8.69	10.83	96.4
1/24/2007	11:30:00	3.1	211	8.67	10.74	96.1
1/24/2007	11:45:00	3.3	203	8.65	10.74	96.6
1/24/2007	12:00:00	3.5	196	8.63	10.76	97.2
1/24/2007	12:15:00	3.6	189	8.61	10.71	97.2
1/24/2007	12:30:00	3.8	186	8.59	10.68	97.4
1/24/2007	12:45:00	3.9	184	8.57	10.65	97.5
1/24/2007	13:00:00	4.1	182	8.54	10.56	97.1
1/24/2007	13:15:00	4.2	182	8.51	10.54	97.1
1/24/2007	13:30:00	4.3	277	8.48	10.59	97.9
1/24/2007	13:45:00	4.4	277	8.45	10.62	98.5
1/24/2007	14:00:00	4.5	277	8.43	10.62	98.6
1/24/2007	14:15:00	4.5	277	8.40	10.76	100.0
1/24/2007	14:30:00	4.6	277	8.38	10.57	98.5
1/24/2007	14:45:00	4.7	278	8.37	10.60	99.1
1/24/2007	15:00:00	4.8	278	8.36	10.64	99.5
1/24/2007	15:15:00	4.8	277	8.34	10.62	99.3
1/24/2007	15:30:00	4.7	277	8.33	10.59	99.0
1/24/2007	15:45:00	4.7	276	8.32	10.57	98.7
1/24/2007	16:00:00	4.7	276	8.31	10.54	98.3
1/24/2007	16:15:00	4.6	275	8.29	10.63	99.1
1/24/2007	16:30:00	4.6	274	8.27	10.54	98.1
1/24/2007	16:45:00	4.5	271	8.27	10.50	97.5
1/24/2007	17:00:00	4.4	268	8.26	10.56	97.7
1/24/2007	17:15:00	4.3	266	8.25	10.52	97.2
1/24/2007	17:30:00	4.2	265	8.25	10.55	97.2
1/24/2007	17:45:00	4.1	263	8.25	10.51	96.5
1/24/2007	18:00:00	4.0	262	8.24	10.34	94.6
1/24/2007	18:15:00	3.9	261	8.23	10.59	96.7
1/24/2007	18:30:00	3.8	261	8.23	10.50	95.7
1/24/2007	18:45:00	3.7	261	8.22	10.56	96.1
1/24/2007	19:00:00	3.6	260	8.21	10.58	96.1
1/24/2007	19:15:00	3.6	261	8.21	10.61	96.1
1/24/2007	19:30:00	3.5	262	8.21	10.54	95.3
1/24/2007	19:45:00	3.4	267	8.22	10.60	95.7
1/24/2007	20:00:00	3.3	281	8.21	10.62	95.7
1/24/2007	20:15:00	3.3	295	8.21	10.56	95.0
1/24/2007	20:30:00	3.2	302	8.22	10.60	95.2
1/24/2007	20:45:00	3.2	301	8.22	10.56	94.6
1/24/2007	21:00:00	3.1	297	8.22	10.48	93.8
1/24/2007	21:15:00	3.1	294	8.21	10.57	94.5
1/24/2007	21:30:00	3.0	293	8.21	10.54	94.1
1/24/2007	21:45:00	3.0	293	8.21	10.46	93.3

Table 5.21. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico.
[Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (see narrative for information).]

1/24/2007	22:00:00	2.9	293	8.21	10.49	93.4
1/24/2007	22:15:00	2.9	293	8.22	10.61	94.3
1/24/2007	22:30:00	2.8	294	8.22	10.62	94.4
1/24/2007	22:45:00	2.8	296	8.22	10.44	92.6
1/24/2007	23:00:00	2.7	297	8.22	10.25	90.8
1/24/2007	23:15:00	2.7	298	8.23	10.48	92.9
1/24/2007	23:30:00	2.7	300	8.23	10.55	93.4
1/24/2007	23:45:00	2.7	297	8.23	10.59	93.7
1/25/2007	0:00:00	2.7	142	8.23	10.55	93.4
1/25/2007	0:15:00	2.7	120	8.23	10.38	91.8
1/25/2007	0:30:00	2.6	120	8.22	8.71	76.9
1/25/2007	0:45:00	2.6	119	8.22	7.19	63.5
1/25/2007	1:00:00	2.6	119	8.22	5.60*	49.4
1/25/2007	1:15:00	2.6	119	8.22	5.17	45.6
1/25/2007	1:30:00	2.5	119	8.21	5.04	44.4
1/25/2007	1:45:00	2.5	119	8.22	4.86	42.8
1/25/2007	2:00:00	2.5	119	8.21	4.76	41.9
1/25/2007	2:15:00	2.4	119	8.21	4.65	40.8
1/25/2007	2:30:00	2.4	119	8.20	4.55	39.9
1/25/2007	2:45:00	2.4	120	8.20	4.50	39.5
1/25/2007	3:00:00	2.4	120	8.19	4.46	39.1
1/25/2007	3:15:00	2.3	120	8.19	4.45	39.0
1/25/2007	3:30:00	2.3	120	8.19	4.38	38.4
1/25/2007	3:45:00	2.3	119	8.18	4.57	40.0
1/25/2007	4:00:00	2.3	118	8.18	4.42	38.7
1/25/2007	4:15:00	2.3	118	8.18	4.53	39.7
1/25/2007	4:30:00	2.3	117	8.17	4.42	38.8
1/25/2007	4:45:00	2.4	117	8.16	4.29	37.6
1/25/2007	5:00:00	2.4	117	8.16	4.21	37.0
1/25/2007	5:15:00	2.4	117	8.15	4.14	36.3
1/25/2007	5:30:00	2.4	117	8.15	4.02	35.3
1/25/2007	5:45:00	2.4	117	8.14	4.00	35.1
1/25/2007	6:00:00	2.4	117	8.13	3.92	34.4
1/25/2007	6:15:00	2.4	117	8.13	3.89	34.2
1/25/2007	6:30:00	2.4	117	8.13	3.88	34.0
1/25/2007	6:45:00	2.4	118	8.12	3.88	34.0
1/25/2007	7:00:00	2.4	119	8.11	3.77	33.0
1/25/2007	7:15:00	2.4	119	8.11	3.65	32.0
1/25/2007	7:30:00	2.4	119	8.11	3.59	31.5
1/25/2007	7:45:00	2.3	120	8.11	3.50	30.7
1/25/2007	8:00:00	2.3	120	8.10	3.42	30.0
1/25/2007	8:15:00	2.3	120	8.10	3.35	29.3
1/25/2007	8:30:00	2.3	120	8.09	3.25	28.4
1/25/2007	8:45:00	2.3	121	8.09	3.20	28.0
1/25/2007	9:00:00	2.3	120	8.09	3.09	27.0
1/25/2007	9:15:00	2.3	121	8.08	3.01	26.3

Table 5.21. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico.
[Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (see narrative for information).]

1/25/2007	9:30:00	2.3	121	8.08	2.98	26.1
1/25/2007	9:45:00	2.3	121	8.08	2.87	25.2
1/25/2007	10:00:00	2.3	121	8.08	2.85	24.9
1/25/2007	10:15:00	2.4	122	8.08	2.81	24.6
1/25/2007	10:30:00	2.4	122	8.07	2.78	24.4
1/25/2007	10:45:00	2.4	123	8.06	2.66	23.3
1/25/2007	11:00:00	2.4	123	8.06	2.66	23.3
1/25/2007	11:15:00	2.5	124	8.06	2.55	22.4
1/25/2007	11:30:00	2.5	124	8.06	2.49	22.0
1/25/2007	11:45:00	2.6	124	8.05	2.46	21.7
1/25/2007	12:00:00	2.6	125	8.05	2.35	20.7
1/25/2007	12:15:00	2.7	125	8.05	2.33	20.6
1/25/2007	12:30:00	2.7	125	8.04	2.20	19.5
1/25/2007	12:45:00	2.9	128	8.05	2.18	19.4
1/25/2007	13:00:00	3.3	129	8.01	2.11	19.0
1/25/2007	13:15:00	3.5	128	8.00	2.04	18.4
1/25/2007	13:30:00	3.6	128	8.00	2.00	18.1
1/25/2007	13:45:00	3.6	127	7.99	1.95	17.6
1/25/2007	14:00:00	3.6	128	7.98	1.85	16.8
1/25/2007	14:15:00	3.7	128	7.99	1.77	16.1
1/25/2007	14:30:00	3.8	129	7.98	1.80	16.5
1/25/2007	14:45:00	4.1	129	7.96	1.61	14.8
1/25/2007	15:00:00	4.2	128	7.96	1.52	14.0
1/25/2007	15:15:00	4.3	128	7.96	1.42	13.1
1/25/2007	15:30:00	4.3	128	7.94	1.48	13.7
1/25/2007	15:45:00	4.3	127	7.94	1.42	13.1
1/25/2007	16:00:00	4.4	127	7.94	1.41	13.1
1/25/2007	16:15:00	4.4	127	7.94	1.38	12.8
1/25/2007	16:30:00	4.3	127	7.93	1.34	12.4
1/25/2007	16:45:00	4.3	128	7.91	1.33	12.3
1/25/2007	17:00:00	4.3	127	7.93	1.29	11.9
1/25/2007	17:15:00	4.3	127	7.93	1.25	11.5
1/25/2007	17:30:00	4.3	127	7.90	1.24	11.5
1/25/2007	17:45:00	4.3	127	7.90	1.18	10.9
1/25/2007	18:00:00	4.2	128	7.90	1.15	10.6
1/25/2007	18:15:00	4.2	128	7.90	1.15	10.6
1/25/2007	18:30:00	4.2	128	7.89	1.10	10.1
1/25/2007	18:45:00	4.2	128	7.89	1.09	10.0
1/25/2007	19:00:00	4.1	128	7.89	1.05	9.6
1/25/2007	19:15:00	4.1	128	7.89	1.02	9.4
1/25/2007	19:30:00	4.1	127	7.89	1.00	9.2
1/25/2007	19:45:00	4.0	127	7.90	0.98	8.9
1/25/2007	20:00:00	4.0	124	7.88	1.17	10.7
1/25/2007	20:15:00	3.9	121	7.89	1.16	10.6
1/25/2007	20:30:00	3.8	125	7.91	1.11	10.1
1/25/2007	20:45:00	3.8	125	7.90	1.14	10.4

Table 5.21. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico.
[Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; %, percent saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (see narrative for information).]

1/25/2007	21:00:00	3.7	126	7.89	1.31	11.9
1/25/2007	21:15:00	3.6	118	7.90	2.70	24.5
1/25/2007	21:30:00	3.5	117	7.90	2.78	25.1
1/25/2007	21:45:00	3.5	117	7.90	2.78	25.1
1/25/2007	22:00:00	3.5	115	7.91	3.35	30.3
1/25/2007	22:15:00	3.4	115	7.91	3.52	31.8
1/25/2007	22:30:00	3.4	115	7.92	3.51	31.7
1/25/2007	22:45:00	3.4	115	7.93	3.33	30.0
1/25/2007	23:00:00	3.4	114	7.93	3.19	28.7
1/25/2007	23:15:00	3.4	114	7.93	3.22	29.0
1/25/2007	23:30:00	3.4	113	7.93	4.13	37.2
1/25/2007	23:45:00	3.3	113	7.95	3.69	33.1
1/26/2007	0:00:00	3.2	114	7.94	3.42	30.7
1/26/2007	0:15:00	3.2	114	7.92	4.03	36.2
1/26/2007	0:30:00	3.0	120	7.91	4.63	41.4
1/26/2007	0:45:00	3.0	120	7.91	4.25	37.9
1/26/2007	1:00:00	3.0	121	7.92	3.93	35.1
1/26/2007	1:15:00	3.0	121	7.92	3.75	33.4
1/26/2007	1:30:00	3.0	121	7.89	4.01	35.8
1/26/2007	1:45:00	3.0	121	7.89	4.32	38.5
1/26/2007	2:00:00	3.0	121	7.90	4.37	38.9
1/26/2007	2:15:00	2.9	122	7.91	4.24	37.7
1/26/2007	2:30:00	2.9	122	7.91	3.94	35.1
1/26/2007	2:45:00	2.9	122	7.91	3.83	34.1
1/26/2007	3:00:00	2.9	122	7.91	3.75	33.3
1/26/2007	3:15:00	2.9	122	7.90	3.75	33.3
1/26/2007	3:30:00	2.9	122	7.90	3.60	32.1
1/26/2007	3:45:00	2.9	122	7.90	3.48	31.0
1/26/2007	4:00:00	2.9	122	7.90	3.47	30.8
1/26/2007	4:15:00	2.8	122	7.90	3.52	31.3
1/26/2007	4:30:00	2.8	122	7.90	3.31	29.4
1/26/2007	4:45:00	2.8	122	7.90	3.24	28.8
1/26/2007	5:00:00	2.7	122	7.91	3.23	28.6
1/26/2007	5:15:00	2.6	122	7.90	3.41	30.2
1/26/2007	5:30:00	2.0	293	8.46	10.65	92.5
1/26/2007	5:45:00	1.9	291	8.48	10.75	93.3
1/26/2007	6:00:00	1.9	288	8.50	10.77	93.4
1/26/2007	6:15:00	1.9	286	8.53	10.83	93.8
1/26/2007	6:30:00	1.9	285	8.56	10.92	94.5
1/26/2007	6:45:00	1.9	283	8.59	10.90	94.3
1/26/2007	7:00:00	1.8	280	8.61	10.81	93.5
1/26/2007	7:15:00	1.8	278	8.64	10.75	92.9
1/26/2007	7:30:00	1.8	276	8.66	10.74	92.8
1/26/2007	7:45:00	1.8	276	8.69	10.55	91.1
1/26/2007	8:00:00	1.8	275	8.73	10.99	94.9

Table 5.22. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:22:02
Report from file:	...\SN45475 2007-01-22 100000 Site3_1_21_2007.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45475	
Firmware Version	1.58	
Unit name:	Athena	
Barometric Pressure:		629.511
Test defined on:	1/21/2007	17:11:49
Test scheduled for	1/22/2007	10:00:00
Test started on:	1/22/2007	10:00:00
Test stopped on:	4/13/2007	5:01:47
Data gathered using linear testing		
Time between data points		900 seconds
Number of data samples:		7757

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
1/22/2007	10:00:00	2.8	10.87	97.0
1/22/2007	10:15:00	3.0	10.87	97.6
1/22/2007	10:30:00	3.2	10.86	98.1
1/22/2007	10:45:00	3.5	10.84	98.7
1/22/2007	11:00:00	3.8	10.83	99.4
1/22/2007	11:15:00	4.1	10.79	99.9
1/22/2007	11:30:00	4.3	10.77	100.2
1/22/2007	11:45:00	4.5	10.76	100.5
1/22/2007	12:00:00	4.8	10.74	101.1
1/22/2007	12:15:00	5.1	10.71	101.6
1/22/2007	12:30:00	5.1	10.68	101.3
1/22/2007	12:45:00	5.3	10.65	101.6
1/22/2007	13:00:00	5.4	10.62	101.7
1/22/2007	13:15:00	5.5	10.58	101.5
1/22/2007	13:30:00	5.4	10.56	101.1
1/22/2007	13:45:00	5.4	10.53	100.8
1/22/2007	14:00:00	5.6	10.49	100.9
1/22/2007	14:15:00	5.9	10.44	101.1
1/22/2007	14:30:00	6.1	10.37	101.1
1/22/2007	14:45:00	6.2	10.34	101.0
1/22/2007	15:00:00	6.2	10.34	100.8
1/22/2007	15:15:00	6.1	10.31	100.5
1/22/2007	15:30:00	6.2	10.29	100.4
1/22/2007	15:45:00	6.3	10.27	100.4
1/22/2007	16:00:00	6.2	10.24	100.1
1/22/2007	16:15:00	6.2	10.22	99.9
1/22/2007	16:30:00	6.2	10.20	99.5
1/22/2007	16:45:00	6.2	10.17	99.4

Table 5.22. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/22/2007	17:00:00	6.2	10.14	99.1
1/22/2007	17:15:00	6.2	10.12	98.8
1/22/2007	17:30:00	6.2	10.09	98.6
1/22/2007	17:45:00	6.2	10.06	98.3
1/22/2007	18:00:00	6.2	10.03	98.0
1/22/2007	18:15:00	6.2	10.02	97.8
1/22/2007	18:30:00	6.1	10.02	97.6
1/22/2007	18:45:00	6.0	10.02	97.4
1/22/2007	19:00:00	5.9	10.02	97.2
1/22/2007	19:15:00	5.8	10.03	97.0
1/22/2007	19:30:00	5.7	10.04	96.8
1/22/2007	19:45:00	5.6	10.05	96.7
1/22/2007	20:00:00	5.5	10.06	96.5
1/22/2007	20:15:00	5.4	10.07	96.4
1/22/2007	20:30:00	5.3	10.07	96.1
1/22/2007	20:45:00	5.2	10.08	95.9
1/22/2007	21:00:00	5.1	10.09	95.8
1/22/2007	21:15:00	5.0	10.09	95.6
1/22/2007	21:30:00	4.9	10.10	95.5
1/22/2007	21:45:00	4.8	10.12	95.3
1/22/2007	22:00:00	4.7	10.13	95.2
1/22/2007	22:15:00	4.6	10.15	95.1
1/22/2007	22:30:00	4.5	10.17	95.1
1/22/2007	22:45:00	4.4	10.19	95.0
1/22/2007	23:00:00	4.3	10.21	94.9
1/22/2007	23:15:00	4.2	10.22	94.8
1/22/2007	23:30:00	4.1	10.24	94.8
1/22/2007	23:45:00	4.0	10.26	94.7
1/23/2007	0:00:00	4.0	10.27	94.7
1/23/2007	0:15:00	3.9	10.29	94.6
1/23/2007	0:30:00	3.8	10.31	94.6
1/23/2007	0:45:00	3.7	10.32	94.5
1/23/2007	1:00:00	3.7	10.33	94.4
1/23/2007	1:15:00	3.6	10.34	94.4
1/23/2007	1:30:00	3.6	10.35	94.3
1/23/2007	1:45:00	3.5	10.36	94.3
1/23/2007	2:00:00	3.5	10.37	94.3
1/23/2007	2:15:00	3.4	10.37	94.2
1/23/2007	2:30:00	3.4	10.38	94.2
1/23/2007	2:45:00	3.3	10.38	94.1
1/23/2007	3:00:00	3.3	10.39	94.0
1/23/2007	3:15:00	3.2	10.40	94.0
1/23/2007	3:30:00	3.2	10.42	94.0
1/23/2007	3:45:00	3.1	10.43	94.0
1/23/2007	4:00:00	3.0	10.46	94.0
1/23/2007	4:15:00	3.0	10.47	94.0

Table 5.22. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2007	4:30:00	2.9	10.49	94.0
1/23/2007	4:45:00	2.8	10.51	94.0
1/23/2007	5:00:00	2.7	10.54	94.0
1/23/2007	5:15:00	2.7	10.56	94.0
1/23/2007	5:30:00	2.6	10.58	94.0
1/23/2007	5:45:00	2.5	10.61	94.0
1/23/2007	6:00:00	2.4	10.65	94.0
1/23/2007	6:15:00	2.3	10.68	94.0
1/23/2007	6:30:00	2.2	10.71	94.0
1/23/2007	6:45:00	2.1	10.74	94.0
1/23/2007	7:00:00	2.0	10.76	93.9
1/23/2007	7:15:00	1.9	10.80	94.0
1/23/2007	7:30:00	1.8	10.82	94.0
1/23/2007	7:45:00	1.7	10.85	94.1
1/23/2007	8:00:00	1.7	10.87	94.2
1/23/2007	8:15:00	1.6	10.91	94.4
1/23/2007	8:30:00	1.6	10.95	94.7
1/23/2007	8:45:00	1.6	10.98	95.0
1/23/2007	9:00:00	1.7	11.01	95.4
1/23/2007	9:15:00	1.8	11.03	95.8
1/23/2007	9:30:00	1.9	11.05	96.3
1/23/2007	9:45:00	2.0	11.07	96.8
1/23/2007	10:00:00	2.2	11.08	97.4
1/23/2007	10:15:00	2.4	11.09	98.0
1/23/2007	10:30:00	2.6	11.10	98.5
1/23/2007	10:45:00	2.8	11.10	99.1
1/23/2007	11:00:00	3.0	11.11	99.6
1/23/2007	11:15:00	3.1	11.11	100.2
1/23/2007	11:30:00	3.3	11.10	100.6
1/23/2007	11:45:00	3.5	11.09	101.0
1/23/2007	12:00:00	3.7	11.08	101.5
1/23/2007	12:15:00	4.0	11.05	101.8
1/23/2007	12:30:00	4.1	11.04	102.2
1/23/2007	12:45:00	4.3	11.01	102.4
1/23/2007	13:00:00	4.5	10.99	102.7
1/23/2007	13:15:00	4.6	10.97	102.8
1/23/2007	13:30:00	4.8	10.93	103.0
1/23/2007	13:45:00	5.0	10.89	103.1
1/23/2007	14:00:00	5.1	10.86	103.2
1/23/2007	14:15:00	5.3	10.82	103.1
1/23/2007	14:30:00	5.4	10.79	103.1
1/23/2007	14:45:00	5.4	10.77	103.1
1/23/2007	15:00:00	5.5	10.75	103.0
1/23/2007	15:15:00	5.5	10.72	102.8
1/23/2007	15:30:00	5.5	10.69	102.6
1/23/2007	15:45:00	5.6	10.66	102.4

Table 5.22. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2007	16:00:00	5.6	10.64	102.1
1/23/2007	16:15:00	5.5	10.59	101.7
1/23/2007	16:30:00	5.5	10.56	101.3
1/23/2007	16:45:00	5.5	10.52	100.9
1/23/2007	17:00:00	5.5	10.49	100.5
1/23/2007	17:15:00	5.4	10.48	100.3
1/23/2007	17:30:00	5.3	10.47	100.0
1/23/2007	17:45:00	5.3	10.44	99.6
1/23/2007	18:00:00	5.2	10.44	99.4
1/23/2007	18:15:00	5.1	10.43	99.1
1/23/2007	18:30:00	5.1	10.42	98.8
1/23/2007	18:45:00	5.0	10.41	98.6
1/23/2007	19:00:00	4.9	10.41	98.3
1/23/2007	19:15:00	4.8	10.41	98.1
1/23/2007	19:30:00	4.8	10.41	97.9
1/23/2007	19:45:00	4.7	10.40	97.7
1/23/2007	20:00:00	4.6	10.41	97.5
1/23/2007	20:15:00	4.5	10.42	97.4
1/23/2007	20:30:00	4.4	10.43	97.3
1/23/2007	20:45:00	4.3	10.44	97.1
1/23/2007	21:00:00	4.2	10.45	97.0
1/23/2007	21:15:00	4.2	10.45	96.8
1/23/2007	21:30:00	4.1	10.46	96.7
1/23/2007	21:45:00	4.0	10.47	96.6
1/23/2007	22:00:00	3.9	10.49	96.6
1/23/2007	22:15:00	3.9	10.50	96.5
1/23/2007	22:30:00	3.8	10.51	96.4
1/23/2007	22:45:00	3.7	10.53	96.4
1/23/2007	23:00:00	3.6	10.54	96.3
1/23/2007	23:15:00	3.6	10.54	96.1
1/23/2007	23:30:00	3.5	10.55	96.1
1/23/2007	23:45:00	3.5	10.55	96.0
1/24/2007	0:00:00	3.5	10.56	96.0
1/24/2007	0:15:00	3.4	10.57	96.0
1/24/2007	0:30:00	3.4	10.56	95.8
1/24/2007	0:45:00	3.4	10.57	95.8
1/24/2007	1:00:00	3.3	10.59	95.8
1/24/2007	1:15:00	3.1	10.64	95.9
1/24/2007	1:30:00	3.0	10.65	95.7
1/24/2007	1:45:00	3.1	10.61	95.6
1/24/2007	2:00:00	3.2	10.59	95.5
1/24/2007	2:15:00	3.1	10.60	95.5
1/24/2007	2:30:00	3.1	10.61	95.4
1/24/2007	2:45:00	3.0	10.62	95.4
1/24/2007	3:00:00	2.9	10.64	95.3
1/24/2007	3:15:00	2.9	10.64	95.3

Table 5.22. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2007	3:30:00	2.9	10.65	95.3
1/24/2007	3:45:00	2.8	10.66	95.3
1/24/2007	4:00:00	2.8	10.67	95.2
1/24/2007	4:15:00	2.7	10.68	95.2
1/24/2007	4:30:00	2.7	10.69	95.2
1/24/2007	4:45:00	2.7	10.70	95.2
1/24/2007	5:00:00	2.6	10.71	95.1
1/24/2007	5:15:00	2.5	10.72	95.1
1/24/2007	5:30:00	2.5	10.74	95.1
1/24/2007	5:45:00	2.4	10.76	95.1
1/24/2007	6:00:00	2.3	10.78	95.0
1/24/2007	6:15:00	2.3	10.81	95.1
1/24/2007	6:30:00	2.2	10.83	95.1
1/24/2007	6:45:00	2.1	10.86	95.1
1/24/2007	7:00:00	2.0	10.89	95.1
1/24/2007	7:15:00	1.9	10.92	95.1
1/24/2007	7:30:00	1.8	10.95	95.1
1/24/2007	7:45:00	1.7	10.98	95.1
1/24/2007	8:00:00	1.6	11.01	95.2
1/24/2007	8:15:00	1.6	11.04	95.4
1/24/2007	8:30:00	1.5	11.08	95.6
1/24/2007	8:45:00	1.5	11.12	95.9
1/24/2007	9:00:00	1.6	11.14	96.3
1/24/2007	9:15:00	1.7	11.17	96.8
1/24/2007	9:30:00	1.8	11.19	97.3
1/24/2007	9:45:00	2.0	11.21	97.9
1/24/2007	10:00:00	2.1	11.23	98.4
1/24/2007	10:15:00	2.3	11.24	99.0
1/24/2007	10:30:00	2.5	11.24	99.6
1/24/2007	10:45:00	2.7	11.24	100.1
1/24/2007	11:00:00	2.9	11.24	100.6
1/24/2007	11:15:00	3.1	11.23	101.2
1/24/2007	11:30:00	3.3	11.22	101.6
1/24/2007	11:45:00	3.6	11.20	102.1
1/24/2007	12:00:00	3.8	11.18	102.6
1/24/2007	12:15:00	4.0	11.16	103.0
1/24/2007	12:30:00	4.3	11.13	103.4
1/24/2007	12:45:00	4.5	11.10	103.7
1/24/2007	13:00:00	4.7	11.07	104.0
1/24/2007	13:15:00	4.9	11.04	104.3
1/24/2007	13:30:00	5.1	10.99	104.4
1/24/2007	13:45:00	5.3	10.95	104.5
1/24/2007	14:00:00	5.5	10.91	104.6
1/24/2007	14:15:00	5.7	10.86	104.6
1/24/2007	14:30:00	5.8	10.81	104.4
1/24/2007	14:45:00	5.9	10.77	104.4

Table 5.22. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2007	15:00:00	6.0	10.73	104.2
1/24/2007	15:15:00	6.1	10.68	104.0
1/24/2007	15:30:00	6.2	10.65	103.9
1/24/2007	15:45:00	6.2	10.60	103.6
1/24/2007	16:00:00	6.3	10.56	103.3
1/24/2007	16:15:00	6.3	10.52	102.9
1/24/2007	16:30:00	6.3	10.49	102.6
1/24/2007	16:45:00	6.2	10.46	102.2
1/24/2007	17:00:00	6.2	10.43	101.8
1/24/2007	17:15:00	6.2	10.40	101.5
1/24/2007	17:30:00	6.1	10.37	101.1
1/24/2007	17:45:00	6.1	10.35	100.7
1/24/2007	18:00:00	6.0	10.34	100.4
1/24/2007	18:15:00	5.9	10.33	100.1
1/24/2007	18:30:00	5.8	10.31	99.8
1/24/2007	18:45:00	5.8	10.30	99.5
1/24/2007	19:00:00	5.7	10.30	99.2
1/24/2007	19:15:00	5.6	10.29	99.0
1/24/2007	19:30:00	5.5	10.28	98.7
1/24/2007	19:45:00	5.5	10.28	98.5
1/24/2007	20:00:00	5.4	10.28	98.3
1/24/2007	20:15:00	5.3	10.28	98.2
1/24/2007	20:30:00	5.2	10.29	98.0
1/24/2007	20:45:00	5.2	10.28	97.8
1/24/2007	21:00:00	5.1	10.29	97.8
1/24/2007	21:15:00	5.0	10.30	97.6
1/24/2007	21:30:00	5.0	10.30	97.4
1/24/2007	21:45:00	4.9	10.31	97.3
1/24/2007	22:00:00	4.8	10.32	97.3
1/24/2007	22:15:00	4.8	10.33	97.2
1/24/2007	22:30:00	4.7	10.34	97.0
1/24/2007	22:45:00	4.6	10.34	96.9
1/24/2007	23:00:00	4.5	10.36	96.9
1/24/2007	23:15:00	4.5	10.36	96.7
1/24/2007	23:30:00	4.5	10.36	96.7
1/24/2007	23:45:00	4.4	10.36	96.6
1/25/2007	0:00:00	4.4	10.37	96.6
1/25/2007	0:15:00	4.3	10.37	96.4
1/25/2007	0:30:00	4.3	10.38	96.4
1/25/2007	0:45:00	4.3	10.37	96.3
1/25/2007	1:00:00	4.2	10.37	96.2
1/25/2007	1:15:00	4.2	10.37	96.2
1/25/2007	1:30:00	4.2	10.38	96.2
1/25/2007	1:45:00	4.2	10.37	96.1
1/25/2007	2:00:00	4.1	10.38	96.1
1/25/2007	2:15:00	4.1	10.38	96.0

Table 5.22. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2007	2:30:00	4.1	10.38	96.0
1/25/2007	2:45:00	4.0	10.39	95.9
1/25/2007	3:00:00	4.0	10.40	95.9
1/25/2007	3:15:00	4.0	10.41	95.9
1/25/2007	3:30:00	3.9	10.42	95.8
1/25/2007	3:45:00	3.9	10.42	95.8
1/25/2007	4:00:00	3.8	10.44	95.8
1/25/2007	4:15:00	3.7	10.45	95.8
1/25/2007	4:30:00	3.7	10.47	95.7
1/25/2007	4:45:00	3.6	10.48	95.7
1/25/2007	5:00:00	3.5	10.50	95.7
1/25/2007	5:15:00	3.5	10.52	95.7
1/25/2007	5:30:00	3.4	10.54	95.6
1/25/2007	5:45:00	3.3	10.57	95.7
1/25/2007	6:00:00	3.2	10.59	95.7
1/25/2007	6:15:00	3.1	10.62	95.7
1/25/2007	6:30:00	3.1	10.65	95.8
1/25/2007	6:45:00	3.0	10.67	95.8
1/25/2007	7:00:00	2.9	10.70	95.7
1/25/2007	7:15:00	2.8	10.73	95.7
1/25/2007	7:30:00	2.7	10.76	95.8
1/25/2007	7:45:00	2.6	10.79	95.8
1/25/2007	8:00:00	2.6	10.82	96.0
1/25/2007	8:15:00	2.5	10.84	96.1
1/25/2007	8:30:00	2.5	10.87	96.3
1/25/2007	8:45:00	2.5	10.90	96.7
1/25/2007	9:00:00	2.6	10.92	97.0
1/25/2007	9:15:00	2.7	10.95	97.5
1/25/2007	9:30:00	2.8	10.98	98.0
1/25/2007	9:45:00	2.9	10.99	98.4
1/25/2007	10:00:00	3.1	11.00	99.0
1/25/2007	10:15:00	3.2	11.01	99.5
1/25/2007	10:30:00	3.4	11.02	100.0
1/25/2007	10:45:00	3.6	11.02	100.5
1/25/2007	11:00:00	3.8	11.02	101.0
1/25/2007	11:15:00	4.0	11.01	101.5
1/25/2007	11:30:00	4.2	11.00	102.0
1/25/2007	11:45:00	4.4	10.99	102.5
1/25/2007	12:00:00	4.7	10.97	102.9
1/25/2007	12:15:00	4.9	10.94	103.3
1/25/2007	12:30:00	5.1	10.93	103.7
1/25/2007	12:45:00	5.3	10.89	103.9
1/25/2007	13:00:00	5.5	10.85	104.1
1/25/2007	13:15:00	5.7	10.82	104.3
1/25/2007	13:30:00	5.9	10.78	104.5
1/25/2007	13:45:00	6.1	10.74	104.6

Table 5.22. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2007	14:00:00	6.3	10.70	104.7
1/25/2007	14:15:00	6.4	10.65	104.6
1/25/2007	14:30:00	6.6	10.60	104.6
1/25/2007	14:45:00	6.7	10.56	104.4
1/25/2007	15:00:00	6.7	10.53	104.3
1/25/2007	15:15:00	6.8	10.49	104.0
1/25/2007	15:30:00	6.9	10.45	103.8
1/25/2007	15:45:00	6.9	10.40	103.5
1/25/2007	16:00:00	7.0	10.36	103.1
1/25/2007	16:15:00	7.0	10.32	102.8
1/25/2007	16:30:00	7.0	10.28	102.4
1/25/2007	16:45:00	7.0	10.24	101.9
1/25/2007	17:00:00	6.9	10.22	101.6
1/25/2007	17:15:00	6.9	10.19	101.1
1/25/2007	17:30:00	6.8	10.16	100.7
1/25/2007	17:45:00	6.7	10.13	100.3
1/25/2007	18:00:00	6.6	10.12	99.9
1/25/2007	18:15:00	6.6	10.11	99.6
1/25/2007	18:30:00	6.5	10.10	99.3
1/25/2007	18:45:00	6.4	10.09	99.0
1/25/2007	19:00:00	6.3	10.08	98.7
1/25/2007	19:15:00	6.2	10.08	98.4
1/25/2007	19:30:00	6.1	10.08	98.2
1/25/2007	19:45:00	6.0	10.07	98.0
1/25/2007	20:00:00	6.0	10.07	97.8
1/25/2007	20:15:00	5.9	10.07	97.5
1/25/2007	20:30:00	5.8	10.07	97.2
1/25/2007	20:45:00	5.7	10.08	97.1
1/25/2007	21:00:00	5.6	10.08	96.9
1/25/2007	21:15:00	5.5	10.08	96.8
1/25/2007	21:30:00	5.5	10.09	96.7
1/25/2007	21:45:00	5.4	10.09	96.5
1/25/2007	22:00:00	5.3	10.10	96.4
1/25/2007	22:15:00	5.3	10.11	96.3
1/25/2007	22:30:00	5.2	10.11	96.1
1/25/2007	22:45:00	5.1	10.12	96.0
1/25/2007	23:00:00	5.0	10.13	96.0
1/25/2007	23:15:00	5.0	10.13	95.9
1/25/2007	23:30:00	4.9	10.14	95.8
1/25/2007	23:45:00	4.9	10.15	95.7
1/26/2007	0:00:00	4.8	10.16	95.6
1/26/2007	0:15:00	4.8	10.16	95.6
1/26/2007	0:30:00	4.7	10.15	95.4
1/26/2007	0:45:00	4.7	10.15	95.4
1/26/2007	1:00:00	4.7	10.15	95.4
1/26/2007	1:15:00	4.6	10.16	95.3

Table 5.22. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2007	1:30:00	4.6	10.16	95.2
1/26/2007	1:45:00	4.6	10.16	95.2
1/26/2007	2:00:00	4.5	10.16	95.0
1/26/2007	2:15:00	4.5	10.17	95.0
1/26/2007	2:30:00	4.5	10.18	95.0
1/26/2007	2:45:00	4.4	10.18	94.9
1/26/2007	3:00:00	4.4	10.18	94.9
1/26/2007	3:15:00	4.3	10.19	94.8
1/26/2007	3:30:00	4.3	10.19	94.8
1/26/2007	3:45:00	4.3	10.19	94.7
1/26/2007	4:00:00	4.2	10.20	94.7
1/26/2007	4:15:00	4.2	10.22	94.6
1/26/2007	4:30:00	4.1	10.23	94.6
1/26/2007	4:45:00	4.0	10.26	94.6
1/26/2007	5:00:00	3.9	10.29	94.7
1/26/2007	5:15:00	3.8	10.31	94.6
1/26/2007	5:30:00	3.7	10.33	94.6
1/26/2007	5:45:00	3.6	10.35	94.6
1/26/2007	6:00:00	3.5	10.38	94.6
1/26/2007	6:15:00	3.4	10.41	94.6
1/26/2007	6:30:00	3.3	10.44	94.6
1/26/2007	6:45:00	3.2	10.47	94.6
1/26/2007	7:00:00	3.1	10.51	94.6
1/26/2007	7:15:00	3.0	10.54	94.6
1/26/2007	7:30:00	2.9	10.57	94.6
1/26/2007	7:45:00	2.8	10.60	94.6
1/26/2007	8:00:00	2.7	10.63	94.7
1/26/2007	8:15:00	2.6	10.65	94.7
1/26/2007	8:30:00	2.6	10.68	94.8
1/26/2007	8:45:00	2.6	10.70	94.9
1/26/2007	9:00:00	2.6	10.73	95.2
1/26/2007	9:15:00	2.6	10.76	95.7
1/26/2007	9:30:00	2.7	10.79	96.2
1/26/2007	9:45:00	2.8	10.81	96.6
1/26/2007	10:00:00	3.0	10.84	97.2

Table 5.23. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**SITE3-1-22-2007**
Setup	**Date**	**(MMDDYY)**	**:**	**1/22/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**9:27:40**
Starting	**Date**	**(MMDDYY)**	**:**	
Starting	**Time**	**(HHMMSS)**	**:**	
Stopping	**Date**	**(MMDDYY)**	**:**	
Stopping	**Time**	**(HHMMSS)**	**:**	
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
1/22/2007	10:45:00	3.1	317	7.91	11.59	103.5
1/22/2007	11:00:00	3.4	318	7.92	11.50	103.6
1/22/2007	11:15:00	3.7	318	7.93	11.42	103.7
1/22/2007	11:30:00	3.9	317	7.93	11.37	103.9
1/22/2007	11:45:00	4.1	317	7.94	11.35	104.1
1/22/2007	12:00:00	4.3	316	7.95	11.35	104.9
1/22/2007	12:15:00	4.7	315	7.96	11.35	105.8
1/22/2007	12:30:00	4.6	314	7.96	11.31	105.4
1/22/2007	12:45:00	4.8	316	7.95	11.25	105.3
1/22/2007	13:00:00	5.0	316	7.95	11.20	105.2
1/22/2007	13:15:00	5.1	317	7.97	11.22	105.7
1/22/2007	13:30:00	5.0	318	7.97	11.14	104.7
1/22/2007	13:45:00	5.0	319	7.96	11.11	104.4
1/22/2007	14:00:00	5.2	321	7.96	11.03	104.1
1/22/2007	14:15:00	5.4	323	7.96	11.07	105.3
1/22/2007	14:30:00	5.7	324	7.94	10.98	105.1
1/22/2007	14:45:00	5.8	325	7.94	10.91	104.7
1/22/2007	15:00:00	5.7	325	7.95	10.94	104.8
1/22/2007	15:15:00	5.7	325	7.96	10.86	104.0
1/22/2007	15:30:00	5.8	326	7.96	10.86	104.2
1/22/2007	15:45:00	5.8	326	7.96	10.77	103.4
1/22/2007	16:00:00	5.8	327	7.96	10.81	103.8
1/22/2007	16:15:00	5.8	327	7.95	10.70	102.7
1/22/2007	16:30:00	5.8	328	7.95	10.69	102.5
1/22/2007	16:45:00	5.8	329	7.95	10.66	102.3
1/22/2007	17:00:00	5.8	330	7.95	10.69	102.5
1/22/2007	17:15:00	5.8	331	7.96	10.62	101.9
1/22/2007	17:30:00	5.8	332	7.95	10.62	101.8
1/22/2007	17:45:00	5.8	334	7.95	10.60	101.8
1/22/2007	18:00:00	5.8	336	7.95	10.55	101.2
1/22/2007	18:15:00	5.7	337	7.95	10.55	101.1
1/22/2007	18:30:00	5.7	338	7.94	10.59	101.3

Table 5.23. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/22/2007	18:45:00	5.6	338	7.95	10.62	101.3
1/22/2007	19:00:00	5.5	340	7.94	10.56	100.5
1/22/2007	19:15:00	5.4	341	7.94	10.66	101.2
1/22/2007	19:30:00	5.3	341	7.94	10.63	100.7
1/22/2007	19:45:00	5.2	343	7.94	10.72	101.3
1/22/2007	20:00:00	5.1	343	7.94	10.76	101.3
1/22/2007	20:15:00	5.0	345	7.94	10.76	101.1
1/22/2007	21:15:00	4.6	350	7.93	10.84	100.9
1/22/2007	21:30:00	4.5	351	7.93	10.84	100.6
1/22/2007	21:45:00	4.4	351	7.93	10.85	100.4
1/22/2007	22:00:00	4.3	352	7.93	10.92	100.7
1/22/2007	22:15:00	4.2	352	7.93	10.90	100.3
1/22/2007	22:30:00	4.1	352	7.94	10.98	100.7
1/22/2007	22:45:00	3.9	352	7.93	11.06	101.1
1/22/2007	23:00:00	3.9	353	7.93	11.04	100.7
1/22/2007	23:15:00	3.8	353	7.93	11.08	100.9
1/22/2007	23:30:00	3.7	353	7.93	11.01	100.0
1/22/2007	23:45:00	3.6	352	7.94	11.09	100.5
1/23/2007	0:00:00	3.5	352	7.93	11.14	100.7
1/23/2007	0:15:00	3.4	351	7.93	11.10	100.1
1/23/2007	0:30:00	3.3	350	7.93	11.19	100.7
1/23/2007	1:00:00	3.2	348	7.93	11.16	100.1
1/23/2007	1:15:00	3.2	348	7.91	11.36	101.7
1/23/2007	1:30:00	3.1	346	7.93	11.19	100.0
1/23/2007	1:45:00	3.0	345	7.92	11.25	100.5
1/23/2007	2:00:00	3.0	344	7.92	11.24	100.3
1/23/2007	2:15:00	3.0	343	7.90	11.34	101.1
1/23/2007	2:30:00	2.9	342	7.92	11.33	100.8
1/23/2007	2:45:00	2.9	343	7.91	11.33	100.7
1/23/2007	3:00:00	2.8	342	7.90	11.28	100.2
1/23/2007	3:15:00	2.8	340	7.90	11.32	100.3
1/23/2007	3:30:00	2.7	334	7.90	11.39	100.8
1/23/2007	3:45:00	2.7	331	7.90	11.38	100.6
1/23/2007	4:00:00	2.6	329	7.90	11.53	101.6
1/23/2007	4:15:00	2.5	326	7.90	11.51	101.3
1/23/2007	4:30:00	2.4	318	7.92	11.52	101.2
1/23/2007	4:45:00	2.4	324	7.90	11.54	101.2
1/23/2007	5:00:00	2.3	318	7.92	11.54	101.0
1/23/2007	5:15:00	2.2	316	7.92	11.59	101.1
1/23/2007	5:30:00	2.1	312	7.92	11.61	101.1
1/23/2007	5:45:00	2.0	321	7.93	11.71	101.7
1/23/2007	6:00:00	1.9	317	7.94	11.72	101.4
1/23/2007	6:15:00	1.8	301	7.94	11.79	101.8
1/23/2007	6:30:00	1.7	286	7.96	11.79	101.5
1/23/2007	6:45:00	1.6	298	7.97	11.86	101.8
1/23/2007	7:00:00	1.5	315	7.94	11.96	102.4

Table 5.23. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2007	7:15:00	1.4	311	7.96	11.97	102.2
1/23/2007	7:30:00	1.3	318	7.94	12.01	102.3
1/23/2007	7:45:00	1.2	322	7.96	11.98	101.8
1/23/2007	8:00:00	1.2	315	7.96	12.01	102.0
1/23/2007	8:15:00	1.2	318	7.95	12.07	102.3
1/23/2007	8:30:00	1.1	317	7.96	12.08	102.4
1/23/2007	8:45:00	1.2	265	7.95	12.07	102.4
1/23/2007	9:00:00	1.2	315	7.95	12.18	103.5
1/23/2007	9:15:00	1.3	317	7.95	12.20	103.9
1/23/2007	9:30:00	1.4	315	7.95	12.28	104.9
1/23/2007	9:45:00	1.5	316	7.95	12.26	105.1
1/23/2007	10:00:00	1.7	310	7.95	12.17	104.8
1/23/2007	10:15:00	1.9	309	7.95	12.23	105.9
1/23/2007	10:30:00	2.1	311	7.95	12.23	106.5
1/23/2007	10:45:00	2.3	308	7.95	12.24	107.2
1/23/2007	11:00:00	2.5	290	7.96	12.26	107.8
1/23/2007	12:00:00	3.3	313	7.96	12.09	108.6
1/23/2007	12:15:00	3.5	314	7.97	12.03	108.7
1/23/2007	12:30:00	3.7	315	7.96	11.95	108.6
1/23/2007	12:45:00	3.9	315	7.97	11.94	108.9
1/23/2007	13:00:00	4.0	316	7.97	11.86	108.7
1/23/2007	13:15:00	4.2	315	7.97	11.80	108.6
1/23/2007	13:30:00	4.4	319	7.97	11.79	109.2
1/23/2007	13:45:00	4.6	320	7.97	11.75	109.2
1/23/2007	14:00:00	4.7	320	7.97	11.75	109.6
1/23/2007	14:15:00	4.8	321	7.96	11.69	109.4
1/23/2007	14:30:00	4.9	233	7.96	11.76	110.4
1/23/2007	14:45:00	5.0	191	7.97	11.63	109.3
1/23/2007	15:00:00	5.0	191	7.97	11.61	109.3
1/23/2007	15:15:00	5.1	185	7.98	11.53	108.6
1/23/2007	15:30:00	5.1	160	7.98	11.48	108.2
1/23/2007	15:45:00	5.1	167	7.98	11.47	108.2
1/23/2007	16:00:00	5.1	172	7.98	11.52	108.6
1/23/2007	16:15:00	5.1	184	7.97	11.44	107.9
1/23/2007	16:30:00	5.1	135	7.97	11.43	107.7
1/23/2007	16:45:00	5.1	125	7.97	11.33	106.7
1/23/2007	17:00:00	5.0	121	7.97	11.33	106.6
1/23/2007	17:15:00	5.0	155	7.98	11.28	105.9
1/23/2007	17:30:00	4.9	144	7.97	11.21	105.1
1/23/2007	17:45:00	4.9	137	7.97	11.15	104.4
1/23/2007	18:00:00	4.8	155	7.97	11.15	104.3
1/23/2007	18:15:00	4.7	213	7.98	11.16	104.1
1/23/2007	18:30:00	4.6	148	7.98	11.22	104.5
1/23/2007	18:45:00	4.5	126	7.97	11.18	103.9
1/23/2007	19:00:00	4.5	108	7.98	11.17	103.6
1/23/2007	19:15:00	4.4	105	7.97	11.17	103.4

Table 5.23. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2007	19:30:00	4.3	105	7.97	11.20	103.5
1/23/2007	19:45:00	4.2	106	7.97	11.22	103.4
1/23/2007	20:00:00	4.1	123	7.98	11.20	103.0
1/23/2007	20:15:00	4.1	121	7.99	11.23	103.0
1/23/2007	20:30:00	4.0	117	7.99	11.19	102.4
1/23/2007	20:45:00	3.9	114	7.99	11.18	102.1
1/23/2007	21:00:00	3.8	167	7.99	11.32	103.2
1/23/2007	21:15:00	3.7	175	7.99	11.32	102.9
1/23/2007	21:30:00	3.6	171	7.99	11.34	102.9
1/23/2007	21:45:00	3.6	132	7.99	11.30	102.3
1/23/2007	22:00:00	3.5	171	8.00	11.33	102.4
1/23/2007	22:15:00	3.4	197	8.00	11.37	102.5
1/23/2007	22:30:00	3.3	193	8.00	11.30	101.7
1/23/2007	22:45:00	3.3	152	8.01	11.28	101.3
1/23/2007	23:00:00	3.2	132	8.01	11.30	101.3
1/23/2007	23:15:00	3.1	117	8.00	11.50	102.9
1/23/2007	23:30:00	3.1	154	8.00	11.41	102.0
1/23/2007	23:45:00	3.0	136	8.00	11.49	102.6
1/24/2007	0:00:00	3.0	126	8.00	11.44	102.0
1/24/2007	0:15:00	3.0	131	8.00	11.41	101.7
1/24/2007	0:30:00	2.9	205	8.00	11.49	102.2
1/24/2007	0:45:00	2.9	302	7.99	11.50	102.2
1/24/2007	1:00:00	2.8	235	8.01	11.59	102.9
1/24/2007	1:15:00	2.7	130	8.06	11.66	103.1
1/24/2007	1:30:00	2.6	103	8.06	11.57	102.1
1/24/2007	2:45:00	2.5	268	8.01	11.56	101.8
1/24/2007	3:00:00	2.5	115	8.02	11.49	101.1
1/24/2007	3:15:00	2.5	111	8.01	11.46	100.7
1/24/2007	3:30:00	2.4	100	8.02	11.52	101.1
1/24/2007	3:45:00	2.3	103	8.02	11.53	101.0
1/24/2007	4:00:00	2.3	107	8.01	11.56	101.2
1/24/2007	4:15:00	2.3	106	8.01	11.63	101.7
1/24/2007	4:30:00	2.2	103	8.00	11.54	100.8
1/24/2007	4:45:00	2.2	95	7.99	11.57	100.9
1/24/2007	5:00:00	2.1	106	7.99	11.66	101.6
1/24/2007	5:15:00	2.1	102	7.99	11.60	100.9
1/24/2007	5:30:00	2.0	108	7.98	11.67	101.4
1/24/2007	5:45:00	1.9	105	7.99	11.66	101.0
1/24/2007	6:00:00	1.8	110	7.99	11.64	100.6
1/24/2007	6:15:00	1.8	108	7.99	11.76	101.5
1/24/2007	6:30:00	1.7	114	7.99	11.80	101.5
1/24/2007	6:45:00	1.6	114	7.99	11.89	102.0
1/24/2007	7:00:00	1.5	92	7.99	11.89	101.8
1/24/2007	7:15:00	1.4	88	7.99	11.86	101.2
1/24/2007	7:30:00	1.3	89	8.00	11.94	101.6
1/24/2007	7:45:00	1.2	89	8.00	12.00	101.8

Table 5.23. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2007	8:00:00	1.1	87	8.00	12.06	102.2
1/24/2007	8:15:00	1.1	84	7.99	12.02	101.8
1/24/2007	8:30:00	1.1	83	8.00	12.05	101.9
1/24/2007	8:45:00	1.1	83	8.00	12.17	102.9
1/24/2007	9:00:00	1.1	83	8.00	12.13	102.8
1/24/2007	9:15:00	1.2	111	8.00	12.18	103.4
1/24/2007	9:30:00	1.3	111	7.99	12.26	104.5
1/24/2007	9:45:00	1.5	94	7.99	12.18	104.2
1/24/2007	10:00:00	1.6	114	7.99	12.28	105.5
1/24/2007	10:15:00	1.8	103	7.99	12.19	105.2
1/24/2007	10:30:00	2.0	100	7.99	12.14	105.4
1/24/2007	10:45:00	2.2	103	7.99	12.18	106.3
1/24/2007	11:00:00	2.4	167	7.99	12.29	107.9
1/24/2007	11:15:00	2.6	135	7.99	12.25	108.2
1/24/2007	11:30:00	2.9	132	7.99	12.17	108.2
1/24/2007	11:45:00	3.1	179	7.99	12.22	109.3
1/24/2007	12:00:00	3.3	254	7.99	12.13	109.2
1/24/2007	12:15:00	3.6	175	7.99	12.06	109.3
1/24/2007	12:30:00	3.8	180	7.99	12.00	109.4
1/24/2007	12:45:00	4.0	158	7.99	11.96	109.6
1/24/2007	13:00:00	4.3	273	7.99	11.90	109.7
1/24/2007	13:15:00	4.5	286	7.99	11.94	110.7
1/24/2007	13:30:00	4.7	288	7.98	11.78	109.8
1/24/2007	13:45:00	4.9	275	7.98	11.74	110.0
1/24/2007	14:00:00	5.1	268	7.98	11.71	110.3
1/24/2007	14:15:00	5.2	285	7.98	11.64	110.1
1/24/2007	14:30:00	5.4	295	7.99	11.56	109.7
1/24/2007	14:45:00	5.5	221	7.99	11.53	109.8
1/24/2007	15:00:00	5.6	173	7.99	11.42	109.0
1/24/2007	15:15:00	5.7	172	7.99	11.37	108.7
1/24/2007	15:30:00	5.8	163	7.99	11.28	108.1
1/24/2007	15:45:00	5.8	146	7.99	11.23	107.7
1/24/2007	16:00:00	5.8	154	7.99	11.14	107.0
1/24/2007	16:15:00	5.9	167	7.99	11.15	107.1
1/24/2007	16:30:00	5.8	144	7.99	11.10	106.7
1/24/2007	16:45:00	5.8	147	7.99	11.04	106.0
1/24/2007	17:00:00	5.8	148	7.99	11.07	106.3
1/24/2007	17:15:00	5.8	151	7.99	10.98	105.3
1/24/2007	17:30:00	5.7	120	7.99	10.98	105.1
1/24/2007	17:45:00	5.6	110	7.99	10.98	104.9
1/24/2007	18:00:00	5.6	103	7.98	10.95	104.5
1/24/2007	18:15:00	5.5	102	7.99	10.97	104.5
1/24/2007	18:30:00	5.4	110	7.99	11.01	104.6
1/24/2007	18:45:00	5.3	106	7.99	10.96	103.9
1/24/2007	19:00:00	5.3	109	7.99	10.89	103.1
1/24/2007	19:15:00	5.2	115	7.98	10.91	103.1

Table 5.23. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2007	19:30:00	5.1	114	7.99	10.87	102.5
1/24/2007	19:45:00	5.0	108	7.98	10.82	101.9
1/24/2007	20:00:00	5.0	108	7.98	10.94	102.8
1/24/2007	20:15:00	4.9	106	7.98	10.98	103.0
1/24/2007	20:30:00	4.8	105	7.98	10.93	102.3
1/24/2007	20:45:00	4.7	104	7.98	10.94	102.1
1/24/2007	21:00:00	4.7	113	7.98	10.93	101.9
1/24/2007	21:15:00	4.6	116	7.98	10.89	101.3
1/24/2007	21:30:00	4.5	112	7.98	10.91	101.4
1/24/2007	21:45:00	4.5	113	7.98	10.98	101.8
1/24/2007	22:00:00	4.4	111	7.99	10.99	101.7
1/24/2007	22:15:00	4.3	109	7.99	11.03	101.8
1/24/2007	22:30:00	4.2	108	7.99	11.09	102.2
1/24/2007	22:45:00	4.2	109	7.99	11.06	101.7
1/24/2007	23:00:00	4.1	108	7.99	11.03	101.2
1/24/2007	23:15:00	4.0	107	7.99	10.99	100.8
1/24/2007	23:30:00	4.0	106	7.98	11.09	101.6
1/24/2007	23:45:00	4.0	102	7.98	11.05	101.1
1/25/2007	0:00:00	3.9	110	7.98	11.11	101.6
1/25/2007	0:15:00	3.9	106	7.98	11.09	101.2
1/25/2007	0:30:00	3.8	99	7.98	11.09	101.1
1/25/2007	0:45:00	3.8	102	7.98	11.18	101.9
1/25/2007	1:00:00	3.8	102	7.97	11.09	101.1
1/25/2007	1:15:00	3.8	96	7.97	11.12	101.3
1/25/2007	1:30:00	3.7	97	7.97	11.15	101.4
1/25/2007	1:45:00	3.7	103	7.97	11.12	101.1
1/25/2007	2:00:00	3.7	107	7.97	11.11	101.0
1/25/2007	2:15:00	3.7	110	7.97	11.18	101.6
1/25/2007	2:30:00	3.7	105	7.97	11.10	100.8
1/25/2007	2:45:00	3.6	106	7.97	11.13	100.9
1/25/2007	3:00:00	3.5	136	7.97	11.18	101.2
1/25/2007	3:15:00	3.5	138	7.97	11.20	101.3
1/25/2007	3:30:00	3.5	125	7.97	11.23	101.4
1/25/2007	3:45:00	3.4	143	7.97	11.22	101.2
1/25/2007	4:00:00	3.4	125	7.98	11.21	100.9
1/25/2007	4:15:00	3.3	116	7.98	11.19	100.6
1/25/2007	4:30:00	3.2	101	7.97	11.20	100.5
1/25/2007	4:45:00	3.2	101	7.98	11.26	100.9
1/25/2007	5:00:00	3.1	99	7.98	11.30	101.0
1/25/2007	5:15:00	3.0	104	7.97	11.36	101.4
1/25/2007	5:30:00	2.9	101	7.98	11.33	100.9
1/25/2007	5:45:00	2.9	94	7.98	11.35	100.8
1/25/2007	6:00:00	2.8	98	7.98	11.44	101.4
1/25/2007	6:15:00	2.7	114	7.98	11.48	101.5
1/25/2007	6:30:00	2.6	118	7.98	11.50	101.4
1/25/2007	6:45:00	2.5	144	7.98	11.57	101.8

Table 5.23. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2007	7:00:00	2.4	139	7.99	11.57	101.5
1/25/2007	7:15:00	2.3	138	7.99	11.61	101.6
1/25/2007	7:30:00	2.2	144	8.00	11.61	101.3
1/25/2007	7:45:00	2.1	124	8.00	11.67	101.7
1/25/2007	8:00:00	2.1	150	8.00	11.76	102.4
1/25/2007	8:15:00	2.1	115	7.99	11.72	101.9
1/25/2007	8:30:00	2.1	101	8.00	11.78	102.4
1/25/2007	8:45:00	2.1	97	8.00	11.79	102.6
1/25/2007	9:00:00	2.1	95	8.00	11.75	102.4
1/25/2007	9:15:00	2.2	95	8.00	11.87	103.6
1/25/2007	9:30:00	2.3	96	8.00	11.84	103.7
1/25/2007	9:45:00	2.4	135	7.99	11.88	104.4
1/25/2007	10:00:00	2.6	172	7.99	11.84	104.4
1/25/2007	10:15:00	2.8	157	7.99	11.79	104.5
1/25/2007	10:30:00	2.9	270	7.99	11.81	105.2
1/25/2007	10:45:00	3.1	272	7.99	11.80	105.7
1/25/2007	11:00:00	3.3	270	7.99	11.79	106.1
1/25/2007	11:15:00	3.6	196	7.99	11.78	106.6
1/25/2007	11:30:00	3.8	179	7.99	11.80	107.5
1/25/2007	11:45:00	4.0	159	7.99	11.73	107.4
1/25/2007	12:00:00	4.2	146	7.99	11.73	108.0
1/25/2007	12:15:00	4.4	159	7.99	11.66	108.0
1/25/2007	12:30:00	4.7	196	8.00	11.68	108.8
1/25/2007	12:45:00	4.9	259	7.99	11.63	109.0
1/25/2007	13:00:00	5.1	273	7.99	11.51	108.5
1/25/2007	13:15:00	5.3	212	7.99	11.45	108.5
1/25/2007	13:30:00	5.5	195	7.99	11.51	109.6
1/25/2007	13:45:00	5.7	194	7.99	11.42	109.3
1/25/2007	14:00:00	5.8	234	7.99	11.35	109.0
1/25/2007	14:15:00	6.0	158	7.98	11.21	108.1
1/25/2007	14:30:00	6.2	161	7.98	11.16	108.0
1/25/2007	14:45:00	6.3	150	7.99	11.09	107.6
1/25/2007	15:00:00	6.3	153	7.99	11.09	107.9
1/25/2007	15:15:00	6.4	156	7.98	11.02	107.4
1/25/2007	15:30:00	6.5	158	7.98	10.97	107.2
1/25/2007	15:45:00	6.5	159	7.98	10.95	107.1
1/25/2007	16:00:00	6.6	161	7.98	10.83	106.0
1/25/2007	16:15:00	6.6	156	7.98	10.81	105.7
1/25/2007	16:30:00	6.6	157	7.98	10.80	105.7
1/25/2007	16:45:00	6.5	172	7.98	10.77	105.2
1/25/2007	17:00:00	6.5	158	7.98	10.75	104.9
1/25/2007	17:15:00	6.4	160	7.98	10.74	104.8
1/25/2007	17:30:00	6.4	169	7.97	10.73	104.5
1/25/2007	17:45:00	6.3	150	7.97	10.70	104.1
1/25/2007	18:00:00	6.2	163	7.98	10.70	103.8
1/25/2007	18:15:00	6.1	183	7.97	10.76	104.2

Table 5.23. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2007	18:30:00	6.0	217	7.98	10.76	103.9
1/25/2007	18:45:00	5.9	225	7.97	10.70	103.0
1/25/2007	19:00:00	5.9	213	7.97	10.71	103.0
1/25/2007	19:15:00	5.8	200	7.97	10.67	102.4
1/25/2007	19:30:00	5.7	152	7.97	10.72	102.6
1/25/2007	19:45:00	5.6	146	7.96	10.71	102.3
1/25/2007	20:00:00	5.5	155	7.96	10.64	101.4
1/25/2007	20:15:00	5.5	164	7.96	10.65	101.3
1/25/2007	20:30:00	5.3	168	7.96	10.65	101.0
1/25/2007	20:45:00	5.3	182	7.96	10.65	100.8
1/25/2007	21:00:00	5.2	184	7.96	10.67	100.8
1/25/2007	21:15:00	5.1	186	7.96	10.78	101.6
1/25/2007	21:30:00	5.0	183	7.95	10.74	101.1
1/25/2007	21:45:00	5.0	187	7.96	10.79	101.3
1/25/2007	22:00:00	4.9	184	7.95	10.74	100.7
1/25/2007	22:15:00	4.8	189	7.95	10.81	101.1
1/25/2007	22:30:00	4.7	181	7.95	10.82	101.1
1/25/2007	22:45:00	4.7	183	7.95	10.76	100.2
1/25/2007	23:00:00	4.6	182	7.95	10.79	100.4
1/25/2007	23:15:00	4.5	181	7.95	10.79	100.3
1/25/2007	23:30:00	4.5	181	7.96	10.82	100.3
1/25/2007	23:45:00	4.4	175	7.95	10.85	100.5
1/26/2007	0:00:00	4.4	182	7.96	10.79	99.8
1/26/2007	0:15:00	4.3	194	7.96	10.87	100.4
1/26/2007	0:30:00	4.3	195	7.95	10.84	100.1
1/26/2007	0:45:00	4.3	184	7.95	10.80	99.6
1/26/2007	1:00:00	4.2	180	7.95	10.76	99.2
1/26/2007	1:15:00	4.2	169	7.95	10.80	99.5
1/26/2007	1:30:00	4.2	155	7.95	10.89	100.2
1/26/2007	1:45:00	4.1	161	7.95	10.86	99.8
1/26/2007	2:00:00	4.1	174	7.95	10.86	99.7
1/26/2007	2:15:00	4.1	172	7.95	10.87	99.7
1/26/2007	2:30:00	4.0	174	7.95	10.89	99.8
1/26/2007	2:45:00	4.0	175	7.94	10.84	99.3
1/26/2007	3:00:00	4.0	178	7.94	10.85	99.3
1/26/2007	3:15:00	3.9	176	7.93	10.83	98.9
1/26/2007	3:30:00	3.9	179	7.93	10.89	99.4
1/26/2007	3:45:00	3.9	182	7.92	10.87	99.2
1/26/2007	4:00:00	3.8	176	7.92	10.88	99.1
1/26/2007	4:15:00	3.7	180	7.92	10.88	99.0
1/26/2007	4:30:00	3.7	181	7.92	10.98	99.7
1/26/2007	4:45:00	3.6	184	7.93	11.03	99.8
1/26/2007	5:00:00	3.5	180	7.94	11.01	99.4
1/26/2007	5:15:00	3.4	182	7.94	11.10	100.0
1/26/2007	5:30:00	3.3	187	7.95	11.15	100.1
1/26/2007	5:45:00	3.2	191	7.95	11.13	99.8

Table 5.23. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2007	6:00:00	3.1	192	7.96	11.15	99.7
1/26/2007	6:15:00	3.0	181	7.97	11.11	99.0
1/26/2007	6:30:00	2.9	176	7.97	11.15	99.1
1/26/2007	6:45:00	2.8	173	7.97	11.29	100.1
1/26/2007	7:00:00	2.7	170	7.98	11.31	99.9
1/26/2007	7:15:00	2.5	173	7.99	11.34	99.9
1/26/2007	7:30:00	2.4	166	7.99	11.41	100.2
1/26/2007	7:45:00	2.3	164	7.99	11.45	100.3
1/26/2007	8:00:00	2.2	170	7.99	11.46	100.1
1/26/2007	8:15:00	2.2	166	7.99	11.48	100.1
1/26/2007	8:30:00	2.1	165	7.99	11.55	100.6
1/26/2007	8:45:00	2.1	165	7.99	11.62	101.1
1/26/2007	9:00:00	2.1	171	7.99	11.66	101.5
1/26/2007	9:15:00	2.2	170	7.99	11.64	101.4
1/26/2007	9:30:00	2.3	175	7.99	11.62	101.6
1/26/2007	9:45:00	2.4	183	7.99	11.68	102.4

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40184**	**Name**	**:**	**Homer**
Log	**File**	**Name**	**:**	**SITE4-1-26-2007**
Setup	**Date**	**(MMDDYY)**	**:**	**1/26/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**16:30:00**
Starting	**Date**	**(MMDDYY)**	**:**	**1/26/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**15:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**2/1/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**11:00**
Measurement	**Interval**	**(HHMMSS)**	**:**	**15:00**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
1/26/2007	16:30:00	6.7	324	8.10	10.33	100.8
1/26/2007	16:45:00	6.6	322	8.18	9.74	94.9
1/26/2007	17:00:00	6.6	322	8.17	9.68	94.3
1/26/2007	17:15:00	6.6	321	8.16	9.64	93.8
1/26/2007	17:30:00	6.5	320	8.16	9.66	93.8
1/26/2007	17:45:00	6.5	320	8.15	9.59	93.0
1/26/2007	18:00:00	6.4	319	8.16	9.47	91.8
1/26/2007	18:15:00	6.4	319	8.16	9.44	91.5
1/26/2007	18:30:00	6.4	319	8.15	9.49	91.9
1/26/2007	18:45:00	6.4	319	8.15	9.57	92.6
1/26/2007	19:00:00	6.4	318	8.16	9.64	93.3
1/26/2007	19:15:00	6.4	318	8.16	9.41	91.2
1/26/2007	19:30:00	6.4	318	8.16	9.37	90.7
1/26/2007	19:45:00	6.4	317	8.16	9.27	89.8
1/26/2007	20:00:00	6.4	318	8.16	9.38	90.8
1/26/2007	20:15:00	6.3	318	8.16	9.33	90.3
1/26/2007	20:30:00	6.3	319	8.16	9.32	90.2
1/26/2007	20:45:00	6.3	319	8.16	9.31	89.9
1/26/2007	21:00:00	6.2	320	8.16	9.42	90.9
1/26/2007	21:15:00	6.2	322	8.16	9.29	89.5
1/26/2007	21:30:00	6.1	324	8.16	9.40	90.4
1/26/2007	21:45:00	6.1	325	8.16	9.40	90.4
1/26/2007	22:00:00	6.0	327	8.15	9.32	89.5
1/26/2007	22:15:00	6.0	328	8.15	9.48	90.9
1/26/2007	22:30:00	5.9	327	8.15	9.37	89.7
1/26/2007	22:45:00	5.8	164	8.14	6.12	58.4
1/26/2007	23:00:00	5.8	107	8.13	6.81	64.9
1/26/2007	23:15:00	5.7	106	8.16	6.75	64.2
1/26/2007	23:30:00	5.6	106	8.13	6.27	59.5
1/26/2007	23:45:00	5.5	109	8.12	6.77	64.1
1/27/2007	0:00:00	5.5	287	8.13	8.97	84.9

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2007	0:15:00	5.4	315	8.13	9.29	87.7
1/27/2007	0:30:00	5.3	327	8.14	9.38	88.4
1/27/2007	0:45:00	5.3	323	8.13	9.35	88.1
1/27/2007	1:00:00	5.2	326	8.13	8.95	84.2
1/27/2007	1:15:00	5.2	325	8.13	8.06	75.8
1/27/2007	1:30:00	5.2	325	8.13	7.88	74.1
1/27/2007	1:45:00	5.2	333	8.13	8.22	77.2
1/27/2007	2:00:00	5.1	354	8.14	8.83	82.9
1/27/2007	2:15:00	5.1	355	8.13	9.37	87.9
1/27/2007	2:30:00	5.1	356	8.14	9.06	85.0
1/27/2007	2:45:00	5.1	357	8.13	8.91	83.5
1/27/2007	3:00:00	5.1	357	8.13	9.01	84.4
1/27/2007	3:15:00	5.1	358	8.13	9.12	85.5
1/27/2007	3:30:00	5.1	358	8.13	9.56	89.5
1/27/2007	3:45:00	5.0	358	8.13	9.52	89.1
1/27/2007	4:00:00	5.0	357	8.13	9.50	88.8
1/27/2007	4:15:00	5.0	356	8.13	8.96	83.7
1/27/2007	4:30:00	4.9	355	8.13	9.33	87.2
1/27/2007	4:45:00	4.9	355	8.13	9.44	88.1
1/27/2007	5:00:00	4.9	354	8.13	9.10	84.9
1/27/2007	5:15:00	4.9	352	8.12	8.98	83.6
1/27/2007	5:30:00	4.8	351	8.12	9.05	84.3
1/27/2007	5:45:00	4.8	350	8.12	9.22	85.8
1/27/2007	6:00:00	4.8	349	8.12	9.30	86.4
1/27/2007	6:15:00	4.8	348	8.12	9.17	85.3
1/27/2007	6:30:00	4.8	346	8.12	9.10	84.6
1/27/2007	6:45:00	4.7	345	8.12	9.09	84.4
1/27/2007	7:00:00	4.7	344	8.12	9.17	85.2
1/27/2007	7:15:00	4.7	343	8.13	9.53	88.5
1/27/2007	7:30:00	4.7	342	8.12	9.69	89.9
1/27/2007	7:45:00	4.7	341	8.12	9.81	91.0
1/27/2007	8:00:00	4.7	340	8.13	9.66	89.6
1/27/2007	8:15:00	4.7	338	8.13	9.31	86.4
1/27/2007	8:30:00	4.7	337	8.13	9.27	86.1
1/27/2007	8:45:00	4.8	336	8.14	9.29	86.3
1/27/2007	9:00:00	4.8	336	8.13	9.39	87.3
1/27/2007	9:15:00	4.8	335	8.13	9.40	87.5
1/27/2007	9:30:00	4.9	335	8.13	9.61	89.5
1/27/2007	9:45:00	4.9	335	8.14	9.52	88.8
1/27/2007	10:00:00	5.0	335	8.15	9.42	88.1
1/27/2007	10:15:00	5.1	335	8.13	9.07	84.9
1/27/2007	10:30:00	5.2	335	8.14	8.22	77.2
1/27/2007	10:45:00	5.2	334	8.14	6.31	59.4
1/27/2007	11:00:00	5.3	334	8.14	6.77	63.8
1/27/2007	11:15:00	5.4	334	8.12	9.63	91.0

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2007	11:30:00	5.5	334	8.13	9.68	91.8
1/27/2007	11:45:00	5.6	334	8.14	9.78	92.9
1/27/2007	12:00:00	5.8	334	8.14	9.68	92.4
1/27/2007	12:15:00	5.9	333	8.14	9.63	92.2
1/27/2007	12:30:00	6.1	333	8.14	9.64	92.8
1/27/2007	12:45:00	6.4	333	8.15	9.62	93.2
1/27/2007	13:00:00	6.5	333	8.14	9.69	94.1
1/27/2007	13:15:00	6.7	332	8.14	9.71	94.8
1/27/2007	13:30:00	6.9	333	8.15	9.67	95.0
1/27/2007	13:45:00	7.1	332	8.15	9.62	94.9
1/27/2007	14:00:00	7.2	332	8.16	9.61	95.1
1/27/2007	14:15:00	7.4	331	8.15	9.62	95.5
1/27/2007	14:30:00	7.4	331	8.14	9.61	95.6
1/27/2007	14:45:00	7.5	330	8.15	9.51	94.6
1/27/2007	15:00:00	7.5	330	8.14	9.48	94.6
1/27/2007	15:15:00	7.6	329	8.14	9.57	95.5
1/27/2007	15:30:00	7.6	329	8.14	9.58	95.6
1/27/2007	15:45:00	7.6	328	8.15	9.59	95.7
1/27/2007	16:00:00	7.6	327	8.15	9.55	95.3
1/27/2007	16:15:00	7.5	326	8.15	9.56	95.3
1/27/2007	16:30:00	7.5	325	8.16	9.38	93.4
1/27/2007	16:45:00	7.4	325	8.16	9.42	93.6
1/27/2007	17:00:00	7.4	324	8.16	9.42	93.5
1/27/2007	17:15:00	7.3	323	8.16	9.40	93.2
1/27/2007	17:30:00	7.3	323	8.16	9.44	93.6
1/27/2007	17:45:00	7.3	322	8.16	9.41	93.2
1/27/2007	18:00:00	7.2	321	8.16	9.43	93.2
1/27/2007	18:15:00	7.2	321	8.16	9.41	93.0
1/27/2007	18:30:00	7.2	320	8.16	9.35	92.3
1/27/2007	18:45:00	7.1	320	8.16	9.40	92.8
1/27/2007	19:00:00	7.1	319	8.17	9.29	91.7
1/27/2007	19:15:00	7.1	319	8.16	9.41	92.8
1/27/2007	19:30:00	7.1	319	8.17	9.37	92.4
1/27/2007	19:45:00	7.1	319	8.17	9.38	92.5
1/27/2007	20:00:00	7.1	319	8.17	9.44	93.1
1/27/2007	20:15:00	7.1	319	8.17	9.37	92.4
1/27/2007	20:30:00	7.1	319	8.17	9.45	93.1
1/27/2007	20:45:00	7.1	318	8.17	9.32	91.9
1/27/2007	21:00:00	7.1	319	8.17	9.33	91.9
1/27/2007	21:15:00	7.0	319	8.17	9.50	93.5
1/27/2007	21:30:00	7.0	319	8.17	9.35	92.0
1/27/2007	21:45:00	7.0	319	8.17	9.33	91.7
1/27/2007	22:00:00	6.9	320	8.17	9.31	91.4
1/27/2007	22:15:00	6.8	321	8.17	9.25	90.6
1/27/2007	22:30:00	6.8	322	8.16	9.21	90.0

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2007	22:45:00	6.7	323	8.16	9.25	90.3
1/27/2007	23:00:00	6.6	325	8.16	9.29	90.5
1/27/2007	23:15:00	6.5	327	8.16	9.27	90.1
1/27/2007	23:30:00	6.4	329	8.16	9.40	91.2
1/27/2007	23:45:00	6.4	330	8.16	9.38	90.8
1/28/2007	0:00:00	6.3	333	8.15	9.34	90.2
1/28/2007	0:15:00	6.2	334	8.15	9.41	90.8
1/28/2007	0:30:00	6.1	337	8.15	9.38	90.3
1/28/2007	0:45:00	6.1	339	8.14	9.42	90.6
1/28/2007	1:00:00	6.0	342	8.14	9.48	91.0
1/28/2007	1:15:00	5.9	345	8.14	9.48	90.8
1/28/2007	1:30:00	5.9	347	8.14	9.49	90.8
1/28/2007	1:45:00	5.8	349	8.14	9.43	90.0
1/28/2007	2:00:00	5.7	351	8.14	9.49	90.4
1/28/2007	2:15:00	5.7	353	8.13	9.53	90.6
1/28/2007	2:30:00	5.6	353	8.13	9.49	90.2
1/28/2007	2:45:00	5.5	354	8.13	9.50	90.1
1/28/2007	3:00:00	5.5	354	8.12	9.53	90.2
1/28/2007	3:15:00	5.4	353	8.12	9.50	89.8
1/28/2007	3:30:00	5.3	353	8.13	9.38	88.6
1/28/2007	3:45:00	5.3	352	8.12	9.51	89.6
1/28/2007	4:00:00	5.2	351	8.12	9.52	89.5
1/28/2007	4:15:00	5.1	351	8.12	9.56	89.8
1/28/2007	4:30:00	5.1	350	8.12	9.59	89.9
1/28/2007	4:45:00	5.0	349	8.12	9.54	89.3
1/28/2007	5:00:00	4.9	349	8.12	9.64	90.0
1/28/2007	5:15:00	4.9	348	8.11	9.63	89.8
1/28/2007	5:30:00	4.8	348	8.11	9.76	90.8
1/28/2007	5:45:00	4.7	346	8.11	9.68	89.9
1/28/2007	6:00:00	4.7	346	8.11	9.61	89.1
1/28/2007	6:15:00	4.6	345	8.11	9.61	88.9
1/28/2007	6:30:00	4.6	344	8.10	9.63	89.0
1/28/2007	6:45:00	4.5	343	8.10	9.64	89.0
1/28/2007	7:00:00	4.4	342	8.10	9.74	89.8
1/28/2007	7:15:00	4.4	341	8.10	9.77	89.9
1/28/2007	7:30:00	4.4	339	8.10	9.82	90.3
1/28/2007	7:45:00	4.3	338	8.10	9.82	90.2
1/28/2007	8:00:00	4.3	336	8.10	9.83	90.1
1/28/2007	8:15:00	4.2	336	8.10	9.90	90.8
1/28/2007	8:30:00	4.2	335	8.10	9.90	90.8
1/28/2007	8:45:00	4.3	335	8.11	9.86	90.4
1/28/2007	9:00:00	4.3	334	8.10	9.92	91.1
1/28/2007	9:15:00	4.4	333	8.10	9.89	91.0
1/28/2007	9:30:00	4.5	333	8.10	9.85	90.8
1/28/2007	9:45:00	4.6	332	8.10	9.81	90.8

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2007	10:00:00	4.7	331	8.10	9.88	91.7
1/28/2007	10:15:00	4.9	331	8.10	9.97	92.9
1/28/2007	10:30:00	5.0	331	8.10	9.98	93.4
1/28/2007	10:45:00	5.2	330	8.11	9.90	93.0
1/28/2007	11:00:00	5.4	330	8.12	9.82	92.7
1/28/2007	11:15:00	5.6	329	8.11	9.75	92.5
1/28/2007	11:30:00	5.8	329	8.11	9.79	93.3
1/28/2007	11:45:00	6.0	329	8.11	9.82	94.2
1/28/2007	12:00:00	6.2	328	8.12	9.93	95.7
1/28/2007	12:15:00	6.4	328	8.12	9.88	95.7
1/28/2007	12:30:00	6.5	328	8.12	9.88	96.1
1/28/2007	12:45:00	6.7	327	8.11	9.85	96.2
1/28/2007	13:00:00	6.9	327	8.13	9.76	95.8
1/28/2007	13:15:00	7.1	327	8.13	9.75	96.0
1/28/2007	13:30:00	7.2	326	8.12	9.74	96.4
1/28/2007	13:45:00	7.4	326	8.13	9.73	96.5
1/28/2007	14:00:00	7.5	325	8.13	9.69	96.5
1/28/2007	14:15:00	7.6	325	8.13	9.65	96.4
1/28/2007	14:30:00	7.7	325	8.13	9.67	96.8
1/28/2007	14:45:00	7.8	324	8.13	9.64	96.7
1/28/2007	15:00:00	7.9	324	8.13	9.60	96.4
1/28/2007	15:15:00	7.9	323	8.13	9.63	96.9
1/28/2007	15:30:00	8.0	323	8.13	9.56	96.3
1/28/2007	15:45:00	8.0	322	8.13	9.54	96.1
1/28/2007	16:00:00	8.0	321	8.13	9.51	95.8
1/28/2007	16:15:00	8.0	321	8.14	9.44	95.1
1/28/2007	16:30:00	8.0	321	8.13	9.42	94.9
1/28/2007	16:45:00	7.9	320	8.13	9.36	94.2
1/28/2007	17:00:00	7.9	320	8.13	9.49	95.4
1/28/2007	17:15:00	7.9	319	8.14	9.41	94.6
1/28/2007	17:30:00	7.8	318	8.14	9.32	93.5
1/28/2007	17:45:00	7.8	318	8.14	9.33	93.6
1/28/2007	18:00:00	7.7	317	8.13	9.31	93.3
1/28/2007	18:15:00	7.7	316	8.13	9.30	93.1
1/28/2007	18:30:00	7.7	316	8.13	9.30	93.0
1/28/2007	18:45:00	7.6	316	8.14	9.27	92.6
1/28/2007	19:00:00	7.6	315	8.14	9.30	92.9
1/28/2007	19:15:00	7.6	314	8.14	9.29	92.7
1/28/2007	19:30:00	7.6	314	8.14	9.28	92.6
1/28/2007	19:45:00	7.5	313	8.14	9.29	92.6
1/28/2007	20:00:00	7.5	313	8.14	9.30	92.6
1/28/2007	20:15:00	7.5	313	8.14	9.24	92.0
1/28/2007	20:30:00	7.5	313	8.14	9.32	92.7
1/28/2007	20:45:00	7.4	313	8.14	9.22	91.6
1/28/2007	21:00:00	7.4	313	8.14	9.19	91.3

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2007	21:15:00	7.4	313	8.14	9.26	91.9
1/28/2007	21:30:00	7.3	314	8.14	9.23	91.5
1/28/2007	21:45:00	7.3	315	8.14	9.25	91.6
1/28/2007	22:00:00	7.2	316	8.14	9.29	91.8
1/28/2007	22:15:00	7.2	317	8.14	9.27	91.5
1/28/2007	22:30:00	7.1	318	8.14	9.32	91.9
1/28/2007	22:45:00	7.0	320	8.14	9.30	91.6
1/28/2007	23:00:00	7.0	322	8.13	9.30	91.4
1/28/2007	23:15:00	6.9	325	8.13	9.29	91.1
1/28/2007	23:30:00	6.8	327	8.13	9.33	91.3
1/28/2007	23:45:00	6.7	329	8.14	9.30	90.9
1/29/2007	0:00:00	6.7	332	8.13	9.36	91.3
1/29/2007	0:15:00	6.6	334	8.13	9.33	90.8
1/29/2007	0:30:00	6.5	336	8.12	9.33	90.7
1/29/2007	0:45:00	6.5	338	8.12	9.32	90.5
1/29/2007	1:00:00	6.4	340	8.12	9.26	89.7
1/29/2007	1:15:00	6.3	341	8.12	9.29	89.8
1/29/2007	1:30:00	6.3	342	8.12	9.31	89.9
1/29/2007	1:45:00	6.2	344	8.12	9.38	90.5
1/29/2007	2:00:00	6.2	345	8.12	9.37	90.3
1/29/2007	2:15:00	6.1	345	8.11	9.42	90.6
1/29/2007	2:30:00	6.0	346	8.11	9.42	90.5
1/29/2007	2:45:00	6.0	347	8.11	9.46	90.7
1/29/2007	3:00:00	5.9	347	8.11	9.42	90.2
1/29/2007	3:15:00	5.9	346	8.10	9.38	89.7
1/29/2007	3:30:00	5.8	348	8.11	9.46	90.4
1/29/2007	3:45:00	5.8	348	8.10	9.49	90.6
1/29/2007	4:00:00	5.7	348	8.10	9.41	89.7
1/29/2007	4:15:00	5.7	347	8.10	9.47	90.2
1/29/2007	4:30:00	5.6	347	8.10	9.45	89.8
1/29/2007	4:45:00	5.6	346	8.10	9.47	89.9
1/29/2007	5:00:00	5.5	346	8.10	9.54	90.4
1/29/2007	5:15:00	5.5	345	8.09	9.51	90.1
1/29/2007	5:30:00	5.4	344	8.09	9.48	89.6
1/29/2007	5:45:00	5.4	344	8.09	9.55	90.1
1/29/2007	6:00:00	5.3	343	8.09	9.57	90.2
1/29/2007	6:15:00	5.2	342	8.08	9.57	90.1
1/29/2007	6:30:00	5.2	342	8.08	9.58	90.0
1/29/2007	6:45:00	5.1	341	8.09	9.55	89.7
1/29/2007	7:00:00	5.1	340	8.09	9.63	90.2
1/29/2007	7:15:00	5.0	339	8.08	9.62	90.0
1/29/2007	7:30:00	5.0	338	8.08	9.66	90.2
1/29/2007	7:45:00	4.9	338	8.09	9.66	90.2
1/29/2007	8:00:00	4.9	338	8.09	9.68	90.2
1/29/2007	8:15:00	4.8	337	8.09	9.66	90.0

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2007	8:30:00	4.9	337	8.09	9.71	90.4
1/29/2007	8:45:00	4.9	336	8.09	9.64	89.9
1/29/2007	9:00:00	4.9	336	8.09	9.68	90.4
1/29/2007	9:15:00	5.0	335	8.09	9.73	91.0
1/29/2007	9:30:00	5.1	335	8.09	9.73	91.3
1/29/2007	9:45:00	5.2	334	8.09	9.74	91.7
1/29/2007	10:00:00	5.4	334	8.09	9.71	91.7
1/29/2007	10:15:00	5.5	334	8.09	9.78	92.7
1/29/2007	10:30:00	5.7	334	8.09	9.73	92.7
1/29/2007	10:45:00	5.9	334	8.09	9.70	92.8
1/29/2007	11:00:00	6.1	334	8.10	9.68	93.1
1/29/2007	11:15:00	6.3	334	8.10	9.72	93.9
1/29/2007	11:30:00	6.5	333	8.09	9.73	94.6
1/29/2007	11:45:00	6.7	333	8.09	9.66	94.3
1/29/2007	12:00:00	6.9	333	8.10	9.69	95.1
1/29/2007	12:15:00	7.1	333	8.10	9.60	94.7
1/29/2007	12:30:00	7.2	333	8.10	9.62	95.1
1/29/2007	12:45:00	7.3	333	8.11	9.58	94.8
1/29/2007	13:00:00	7.4	333	8.10	9.68	96.1
1/29/2007	13:15:00	7.4	332	8.11	9.54	94.8
1/29/2007	13:30:00	7.4	332	8.11	9.56	95.0
1/29/2007	13:45:00	7.4	331	8.11	9.44	93.9
1/29/2007	14:00:00	7.4	330	8.11	9.52	94.7
1/29/2007	14:15:00	7.4	329	8.11	9.50	94.5
1/29/2007	14:30:00	7.4	329	8.12	9.44	93.8
1/29/2007	14:45:00	7.4	328	8.12	9.43	93.6
1/29/2007	15:00:00	7.4	327	8.12	9.48	94.1
1/29/2007	15:15:00	7.4	326	8.12	9.52	94.5
1/29/2007	15:30:00	7.5	326	8.13	9.54	95.0
1/29/2007	15:45:00	7.5	325	8.12	9.47	94.4
1/29/2007	16:00:00	7.6	325	8.12	9.49	94.8
1/29/2007	16:15:00	7.6	324	8.13	9.45	94.4
1/29/2007	16:30:00	7.7	324	8.13	9.46	94.6
1/29/2007	16:45:00	7.7	323	8.12	9.40	94.0
1/29/2007	17:00:00	7.7	322	8.13	9.36	93.7
1/29/2007	17:15:00	7.7	323	8.13	9.34	93.6
1/29/2007	17:30:00	7.7	322	8.13	9.37	93.8
1/29/2007	17:45:00	7.7	323	8.13	9.33	93.4
1/29/2007	18:00:00	7.7	323	8.13	9.32	93.2
1/29/2007	18:15:00	7.6	322	8.13	9.32	93.1
1/29/2007	18:30:00	7.6	323	8.13	9.32	93.0
1/29/2007	18:45:00	7.5	322	8.12	9.36	93.3
1/29/2007	19:00:00	7.5	322	8.12	9.31	92.7
1/29/2007	19:15:00	7.4	321	8.12	9.32	92.6
1/29/2007	19:30:00	7.3	321	8.12	9.25	91.8

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2007	19:45:00	7.3	320	8.13	9.28	91.9
1/29/2007	20:00:00	7.2	320	8.13	9.30	91.9
1/29/2007	20:15:00	7.1	320	8.13	9.28	91.5
1/29/2007	20:30:00	7.0	320	8.15	9.22	90.7
1/29/2007	20:45:00	6.9	320	8.14	9.18	90.2
1/29/2007	21:00:00	6.9	321	8.13	9.27	90.8
1/29/2007	21:15:00	6.8	322	8.13	9.38	91.8
1/29/2007	21:30:00	6.7	323	8.13	9.37	91.5
1/29/2007	21:45:00	6.6	324	8.13	9.34	91.1
1/29/2007	22:00:00	6.6	325	8.15	9.34	90.9
1/29/2007	22:15:00	6.5	326	8.13	9.35	90.8
1/29/2007	22:30:00	6.4	327	8.13	9.34	90.5
1/29/2007	22:45:00	6.3	329	8.14	9.32	90.2
1/29/2007	23:00:00	6.3	330	8.14	9.34	90.2
1/29/2007	23:15:00	6.2	331	8.13	9.34	90.1
1/29/2007	23:30:00	6.1	332	8.13	9.39	90.3
1/29/2007	23:45:00	6.1	333	8.13	9.37	90.0
1/30/2007	0:00:00	6.0	334	8.13	9.30	89.2
1/30/2007	0:15:00	5.9	335	8.13	9.48	90.8
1/30/2007	0:30:00	5.9	337	8.12	9.45	90.3
1/30/2007	0:45:00	5.8	338	8.12	9.42	89.9
1/30/2007	1:00:00	5.7	339	8.12	9.45	90.0
1/30/2007	1:15:00	5.6	340	8.12	9.47	90.0
1/30/2007	1:30:00	5.6	341	8.12	9.46	89.8
1/30/2007	1:45:00	5.5	343	8.11	9.55	90.5
1/30/2007	2:00:00	5.4	343	8.12	9.52	90.0
1/30/2007	2:15:00	5.3	343	8.11	9.51	89.7
1/30/2007	2:30:00	5.3	342	8.12	9.60	90.3
1/30/2007	2:45:00	5.2	342	8.12	9.61	90.2
1/30/2007	3:00:00	5.1	342	8.13	9.58	89.8
1/30/2007	3:15:00	5.0	342	8.12	9.69	90.5
1/30/2007	3:30:00	4.9	343	8.11	9.63	89.8
1/30/2007	3:45:00	4.8	343	8.12	9.65	89.8
1/30/2007	4:00:00	4.7	343	8.11	9.65	89.6
1/30/2007	4:15:00	4.6	343	8.11	9.64	89.3
1/30/2007	4:30:00	4.6	344	8.11	9.63	89.1
1/30/2007	4:45:00	4.5	344	8.11	9.66	89.2
1/30/2007	5:00:00	4.5	345	8.11	9.69	89.3
1/30/2007	5:15:00	4.4	345	8.13	9.58	88.2
1/30/2007	5:30:00	4.4	344	8.13	9.64	88.6
1/30/2007	5:45:00	4.3	344	8.13	9.68	88.9
1/30/2007	6:00:00	4.3	343	8.12	9.55	87.6
1/30/2007	6:15:00	4.2	342	8.11	9.58	87.7
1/30/2007	6:30:00	4.1	341	8.11	9.70	88.7
1/30/2007	6:45:00	4.1	339	8.10	9.84	89.8

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2007	7:00:00	4.0	339	8.10	9.75	88.9
1/30/2007	7:15:00	4.0	339	8.10	9.78	89.1
1/30/2007	7:30:00	4.0	339	8.10	9.81	89.3
1/30/2007	7:45:00	3.9	339	8.11	9.81	89.2
1/30/2007	8:00:00	3.9	339	8.11	9.77	88.8
1/30/2007	8:15:00	3.9	339	8.10	9.71	88.2
1/30/2007	8:30:00	3.9	338	8.10	9.84	89.4
1/30/2007	8:45:00	3.9	338	8.11	9.81	89.2
1/30/2007	9:00:00	4.0	338	8.10	9.85	89.6
1/30/2007	9:15:00	4.0	338	8.11	9.87	90.0
1/30/2007	9:30:00	4.1	338	8.11	9.92	90.6
1/30/2007	9:45:00	4.2	338	8.12	9.77	89.5
1/30/2007	10:00:00	4.4	338	8.11	9.93	91.4
1/30/2007	10:15:00	4.6	338	8.11	9.88	91.3
1/30/2007	10:30:00	4.8	339	8.10	9.86	91.6
1/30/2007	10:45:00	4.9	340	8.10	9.75	91.0
1/30/2007	11:00:00	5.0	341	8.11	9.85	92.1
1/30/2007	11:15:00	5.1	342	8.10	9.91	92.9
1/30/2007	11:30:00	5.3	342	8.09	9.80	92.2
1/30/2007	11:45:00	5.4	342	8.10	9.81	92.7
1/30/2007	12:00:00	5.6	342	8.10	9.81	93.1
1/30/2007	12:15:00	5.7	342	8.10	9.76	93.0
1/30/2007	12:30:00	5.9	343	8.10	9.72	92.9
1/30/2007	12:45:00	6.0	343	8.11	9.57	91.9
1/30/2007	13:00:00	6.1	343	8.11	9.67	93.1
1/30/2007	13:15:00	6.2	342	8.12	9.65	93.1
1/30/2007	13:30:00	6.3	342	8.11	9.64	93.3
1/30/2007	13:45:00	6.4	341	8.11	9.66	93.5
1/30/2007	14:00:00	6.4	341	8.11	9.65	93.6
1/30/2007	14:15:00	6.5	340	8.12	9.60	93.2
1/30/2007	14:30:00	6.5	340	8.12	9.64	93.7
1/30/2007	14:45:00	6.6	338	8.12	9.61	93.5
1/30/2007	15:00:00	6.6	338	8.12	9.62	93.8
1/30/2007	15:15:00	6.7	337	8.12	9.56	93.3
1/30/2007	15:30:00	6.7	336	8.12	9.62	94.0
1/30/2007	15:45:00	6.7	336	8.12	9.63	94.0
1/30/2007	16:00:00	6.7	335	8.13	9.58	93.5
1/30/2007	16:15:00	6.6	334	8.14	9.59	93.5
1/30/2007	16:30:00	6.6	333	8.14	9.56	93.1
1/30/2007	16:45:00	6.6	333	8.14	9.55	93.0
1/30/2007	17:00:00	6.6	332	8.14	9.60	93.5
1/30/2007	17:15:00	6.6	331	8.14	9.50	92.4
1/30/2007	17:30:00	6.6	331	8.13	9.47	92.2
1/30/2007	17:45:00	6.6	330	8.13	9.43	91.8
1/30/2007	18:00:00	6.5	329	8.13	9.47	92.1

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2007	18:15:00	6.5	328	8.14	9.45	91.9
1/30/2007	18:30:00	6.5	328	8.14	9.38	91.2
1/30/2007	18:45:00	6.5	327	8.14	9.38	91.2
1/30/2007	19:00:00	6.5	327	8.15	9.36	91.0
1/30/2007	19:15:00	6.4	326	8.15	9.40	91.2
1/30/2007	19:30:00	6.3	325	8.15	9.42	91.1
1/30/2007	19:45:00	6.2	325	8.15	9.41	90.7
1/30/2007	20:00:00	6.1	325	8.15	9.45	90.8
1/30/2007	20:15:00	6.0	325	8.14	9.41	90.2
1/30/2007	20:30:00	5.9	325	8.15	9.43	90.2
1/30/2007	20:45:00	5.8	326	8.15	9.40	89.7
1/30/2007	21:00:00	5.8	327	8.15	9.43	90.0
1/30/2007	21:15:00	5.8	328	8.14	9.45	90.1
1/30/2007	21:30:00	5.7	329	8.15	9.36	89.1
1/30/2007	21:45:00	5.7	330	8.15	9.39	89.3
1/30/2007	22:00:00	5.6	331	8.15	9.40	89.3
1/30/2007	22:15:00	5.5	332	8.15	9.42	89.3
1/30/2007	22:30:00	5.4	333	8.15	9.49	89.7
1/30/2007	22:45:00	5.3	334	8.14	9.43	89.0
1/30/2007	23:00:00	5.3	336	8.14	9.51	89.6
1/30/2007	23:15:00	5.3	338	8.14	9.49	89.5
1/30/2007	23:30:00	5.3	339	8.14	9.43	88.8
1/30/2007	23:45:00	5.3	340	8.14	9.45	89.0
1/31/2007	0:00:00	5.2	342	8.14	9.41	88.6
1/31/2007	0:15:00	5.2	344	8.15	9.39	88.3
1/31/2007	0:30:00	5.2	345	8.14	9.45	88.9
1/31/2007	0:45:00	5.2	346	8.14	9.44	88.7
1/31/2007	1:00:00	5.1	347	8.14	9.52	89.4
1/31/2007	1:15:00	5.1	349	8.14	9.44	88.5
1/31/2007	1:30:00	5.1	350	8.14	9.35	87.7
1/31/2007	1:45:00	5.1	351	8.13	9.42	88.3
1/31/2007	2:00:00	5.1	353	8.12	9.40	88.1
1/31/2007	2:15:00	5.1	354	8.12	9.31	87.2
1/31/2007	3:30:00	5.0	355	8.13	9.41	88.0
1/31/2007	3:45:00	5.0	356	8.13	9.47	88.5
1/31/2007	4:00:00	4.9	357	8.12	9.48	88.5
1/31/2007	4:15:00	4.9	358	8.12	9.42	88.0
1/31/2007	4:30:00	4.9	359	8.12	9.49	88.5
1/31/2007	4:45:00	4.9	361	8.13	9.44	88.0
1/31/2007	5:00:00	4.9	363	8.13	9.48	88.3
1/31/2007	5:15:00	4.9	364	8.12	9.48	88.4
1/31/2007	5:30:00	4.8	365	8.12	9.44	87.9
1/31/2007	5:45:00	4.8	366	8.12	9.50	88.4
1/31/2007	6:00:00	4.8	366	8.12	9.53	88.6
1/31/2007	6:15:00	4.7	367	8.11	9.61	89.3

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2007	6:30:00	4.7	367	8.11	9.56	88.8
1/31/2007	6:45:00	4.7	367	8.11	9.55	88.5
1/31/2007	7:00:00	4.6	367	8.11	9.57	88.6
1/31/2007	7:15:00	4.6	367	8.11	9.57	88.5
1/31/2007	7:30:00	4.6	367	8.11	9.55	88.3
1/31/2007	7:45:00	4.5	366	8.11	9.58	88.5
1/31/2007	8:00:00	4.5	366	8.11	9.59	88.5
1/31/2007	8:15:00	4.5	366	8.11	9.64	89.0
1/31/2007	8:30:00	4.5	366	8.11	9.60	88.6
1/31/2007	8:45:00	4.6	365	8.12	9.60	88.7
1/31/2007	9:00:00	4.6	365	8.12	9.54	88.4
1/31/2007	9:15:00	4.7	365	8.13	9.53	88.5
1/31/2007	9:30:00	4.8	365	8.12	9.62	89.6
1/31/2007	9:45:00	4.9	365	8.12	9.60	89.7
1/31/2007	10:00:00	5.2	365	8.12	9.52	89.5
1/31/2007	10:15:00	5.4	365	8.12	9.56	90.4
1/31/2007	10:30:00	5.6	365	8.12	9.52	90.5
1/31/2007	10:45:00	5.7	365	8.12	9.52	90.7
1/31/2007	11:00:00	5.8	366	8.12	9.50	90.7
1/31/2007	11:15:00	5.9	366	8.12	9.51	90.9
1/31/2007	11:30:00	5.9	366	8.12	9.39	89.9
1/31/2007	11:45:00	6.0	367	8.13	9.26	88.9
1/31/2007	12:00:00	6.1	367	8.13	9.26	89.0
1/31/2007	12:15:00	6.2	367	8.13	9.17	88.4
1/31/2007	12:30:00	6.2	367	8.13	9.16	88.4
1/31/2007	12:45:00	6.3	367	8.13	9.16	88.6
1/31/2007	13:00:00	6.4	367	8.12	9.11	88.3
1/31/2007	13:15:00	6.5	367	8.12	9.07	88.2
1/31/2007	13:30:00	6.7	367	8.12	8.76	85.6
1/31/2007	13:45:00	6.8	367	8.12	8.45	82.7
1/31/2007	14:00:00	6.8	367	8.12	8.45	82.8
1/31/2007	14:15:00	6.9	367	8.13	8.57	84.1
1/31/2007	14:30:00	7.0	366	8.12	8.56	84.2
1/31/2007	14:45:00	7.1	366	8.13	8.53	84.0
1/31/2007	15:00:00	7.1	366	8.14	8.62	85.1
1/31/2007	15:15:00	7.2	365	8.13	8.78	86.7
1/31/2007	15:30:00	7.2	365	8.13	8.97	88.6
1/31/2007	15:45:00	7.2	365	8.13	8.81	87.1
1/31/2007	16:00:00	7.1	363	8.14	8.58	84.6
1/31/2007	16:15:00	7.1	363	8.13	8.50	83.8
1/31/2007	16:30:00	7.0	361	8.14	8.38	82.4
1/31/2007	16:45:00	7.0	360	8.13	8.33	81.9
1/31/2007	17:00:00	6.9	359	8.13	8.23	80.7
1/31/2007	17:15:00	6.8	357	8.13	8.21	80.4
1/31/2007	18:15:00	6.8	355	8.14	8.22	80.4

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2007	18:30:00	6.8	354	8.14	8.07	78.9
1/31/2007	18:45:00	6.8	354	8.15	8.24	80.6
1/31/2007	19:00:00	6.8	353	8.15	7.94	77.6
1/31/2007	19:15:00	6.7	352	8.15	8.04	78.5
1/31/2007	19:30:00	6.7	352	8.15	8.03	78.4
1/31/2007	19:45:00	6.7	351	8.15	7.97	77.8
1/31/2007	20:00:00	6.6	350	8.15	8.08	78.7
1/31/2007	20:15:00	6.6	350	8.15	8.08	78.6
1/31/2007	20:30:00	6.5	350	8.16	8.00	77.8
1/31/2007	20:45:00	6.5	350	8.16	7.92	77.0
1/31/2007	21:00:00	6.5	350	8.15	8.09	78.6
1/31/2007	21:15:00	6.4	350	8.15	8.24	79.9
1/31/2007	21:30:00	6.4	350	8.16	7.87	76.3
1/31/2007	21:45:00	6.4	351	8.16	7.87	76.2
1/31/2007	22:00:00	6.3	351	8.16	7.85	76.0
1/31/2007	22:15:00	6.3	352	8.16	8.17	78.9
1/31/2007	22:30:00	6.2	354	8.16	8.11	78.2
1/31/2007	22:45:00	6.2	355	8.16	8.15	78.6
1/31/2007	23:00:00	6.2	356	8.15	8.08	77.9
1/31/2007	23:15:00	6.2	357	8.15	8.02	77.3
1/31/2007	23:30:00	6.1	358	8.15	8.15	78.5
1/31/2007	23:45:00	6.1	359	8.15	8.00	77.0
2/1/2007	0:00:00	6.1	359	8.15	7.88	75.7
2/1/2007	0:15:00	6.0	360	8.15	7.87	75.5
2/1/2007	0:30:00	6.0	361	8.15	8.04	77.0
2/1/2007	0:45:00	5.9	361	8.15	7.74	74.1
2/1/2007	1:00:00	5.8	362	8.15	7.75	74.0
2/1/2007	1:15:00	5.8	362	8.14	7.78	74.2
2/1/2007	1:30:00	5.8	363	8.15	7.47	71.2
2/1/2007	2:00:00	5.7	364	8.15	7.88	75.0
2/1/2007	2:15:00	5.6	365	8.14	8.08	76.8
2/1/2007	2:30:00	5.6	366	8.13	7.81	74.2
2/1/2007	2:45:00	5.6	367	8.13	8.50	80.6
2/1/2007	3:00:00	5.5	369	8.12	7.88	74.6
2/1/2007	3:15:00	5.4	370	8.13	8.41	79.5
2/1/2007	3:30:00	5.4	371	8.13	9.27	87.5
2/1/2007	3:45:00	5.3	372	8.13	9.23	87.0
2/1/2007	4:00:00	5.3	372	8.13	9.16	86.3
2/1/2007	4:15:00	5.2	374	8.13	9.29	87.4
2/1/2007	4:30:00	5.2	375	8.12	9.24	86.9
2/1/2007	4:45:00	5.2	375	8.13	9.31	87.5
2/1/2007	5:00:00	5.2	375	8.12	9.31	87.4
2/1/2007	5:15:00	5.1	376	8.13	9.29	87.2
2/1/2007	5:30:00	5.1	377	8.12	9.43	88.4
2/1/2007	5:45:00	5.1	377	8.12	9.43	88.3

Table 5.24. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/1/2007	6:00:00	5.0	377	8.12	9.39	87.9
2/1/2007	6:15:00	5.0	376	8.12	9.31	87.1
2/1/2007	6:30:00	5.0	376	8.12	9.38	87.7
2/1/2007	6:45:00	5.0	375	8.12	9.36	87.5
2/1/2007	7:00:00	4.9	375	8.12	9.26	86.5
2/1/2007	7:15:00	4.9	374	8.13	9.31	86.8
2/1/2007	7:30:00	4.9	373	8.12	9.37	87.3
2/1/2007	7:45:00	4.8	373	8.12	9.38	87.3
2/1/2007	8:00:00	4.8	373	8.11	8.86	82.5
2/1/2007	9:00:00	4.9	371	8.11	9.60	89.6
2/1/2007	9:15:00	5.0	371	8.12	9.55	89.3
2/1/2007	9:30:00	5.1	370	8.11	9.46	88.6
2/1/2007	9:45:00	5.2	370	8.12	9.39	88.3
2/1/2007	10:00:00	5.3	371	8.12	8.41	79.3

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**Site 5-1-26-2007**
Setup	**Date**	**(MMDDYY)**	**:**	**1/26/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**14:00:00**
Starting	**Date**	**(MMDDYY)**	**:**	**1/26/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**140000**
Stopping	**Date**	**(MMDDYY)**	**:**	**2/2/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**10:10**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
1/26/2007	14:45:00	5.3	418	8.11	9.65	91.7
1/26/2007	15:00:00	5.4	414	8.14	9.77	93.0
1/26/2007	15:15:00	5.5	414	8.14	9.67	92.1
1/26/2007	15:30:00	5.5	170	8.14	9.85	93.9
1/26/2007	15:45:00	5.6	139	8.12	9.85	94.0
1/26/2007	16:00:00	5.6	136	8.11	9.77	93.2
1/26/2007	16:15:00	5.6	132	8.15	9.77	93.3
1/26/2007	16:30:00	5.6	130	8.24	9.73	93.0
1/26/2007	16:45:00	5.6	131	8.24	9.77	93.3
1/26/2007	17:00:00	5.6	131	8.18	9.69	92.6
1/26/2007	17:15:00	5.6	135	8.15	9.88	94.3
1/26/2007	17:30:00	5.6	142	8.17	9.69	92.5
1/26/2007	17:45:00	5.6	141	8.21	9.56	91.2
1/26/2007	18:00:00	5.6	137	8.18	9.64	92.0
1/26/2007	18:15:00	5.5	136	8.18	9.57	91.3
1/26/2007	18:30:00	5.5	138	8.18	9.90	94.4
1/26/2007	18:45:00	5.5	135	8.18	9.80	93.4
1/26/2007	19:00:00	5.5	140	8.24	9.65	91.9
1/26/2007	19:15:00	5.4	142	8.16	9.60	91.3
1/26/2007	19:30:00	5.4	135	8.16	9.81	93.3
1/26/2007	19:45:00	5.4	132	8.17	9.74	92.6
1/26/2007	20:00:00	5.4	137	8.16	9.63	91.5
1/26/2007	20:15:00	5.4	138	8.18	9.68	92.0
1/26/2007	20:30:00	5.4	134	8.21	9.68	91.9
1/26/2007	20:45:00	5.3	134	8.19	9.73	92.3
1/26/2007	21:00:00	5.3	132	8.18	9.64	91.4
1/26/2007	21:15:00	5.3	131	8.19	9.85	93.3
1/26/2007	21:30:00	5.2	131	8.17	9.75	92.2
1/26/2007	21:45:00	5.2	135	8.19	9.61	90.9
1/26/2007	22:00:00	5.2	133	8.19	9.54	90.2
1/26/2007	22:15:00	5.2	131	8.19	9.43	89.0
1/26/2007	22:30:00	5.1	130	8.19	9.71	91.6

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2007	22:45:00	5.1	130	8.17	9.72	91.6
1/26/2007	23:00:00	5.0	129	8.16	9.73	91.6
1/26/2007	23:15:00	5.0	129	8.17	9.60	90.3
1/26/2007	23:30:00	5.0	129	8.18	9.53	89.6
1/26/2007	23:45:00	4.9	129	8.17	9.69	91.0
1/27/2007	0:00:00	4.9	128	8.16	9.69	90.8
1/27/2007	0:15:00	4.8	128	8.16	9.68	90.6
1/27/2007	0:30:00	4.7	128	8.16	9.68	90.4
1/27/2007	0:45:00	4.7	128	8.16	9.59	89.5
1/27/2007	1:00:00	4.6	128	8.16	9.62	89.7
1/27/2007	1:15:00	4.6	127	8.16	9.53	88.7
1/27/2007	1:30:00	4.5	125	8.16	9.63	89.5
1/27/2007	1:45:00	4.5	123	8.16	9.72	90.2
1/27/2007	2:00:00	4.4	126	8.15	9.70	89.9
1/27/2007	2:15:00	4.4	124	8.15	9.66	89.5
1/27/2007	2:30:00	4.4	123	8.15	9.88	91.4
1/27/2007	2:45:00	4.4	125	8.15	9.82	90.9
1/27/2007	3:00:00	4.3	138	8.16	9.90	91.5
1/27/2007	3:15:00	4.3	134	8.16	9.79	90.4
1/27/2007	3:30:00	4.2	131	8.16	9.66	89.1
1/27/2007	3:45:00	4.2	126	8.15	9.76	89.9
1/27/2007	4:00:00	4.2	125	8.15	9.73	89.6
1/27/2007	4:15:00	4.2	124	8.15	9.88	90.9
1/27/2007	4:30:00	4.2	124	8.14	9.97	91.8
1/27/2007	4:45:00	4.2	124	8.15	9.87	90.8
1/27/2007	5:00:00	4.2	124	8.15	9.59	88.3
1/27/2007	5:15:00	4.1	124	8.16	9.74	89.6
1/27/2007	5:30:00	4.1	124	8.16	9.70	89.2
1/27/2007	5:45:00	4.1	125	8.16	9.82	90.2
1/27/2007	6:00:00	4.1	148	8.15	9.91	91.1
1/27/2007	6:15:00	4.1	138	8.16	9.99	91.7
1/27/2007	6:30:00	4.1	133	8.16	9.90	90.9
1/27/2007	6:45:00	4.1	135	8.16	9.95	91.3
1/27/2007	7:00:00	4.1	149	8.16	9.87	90.6
1/27/2007	7:15:00	4.0	140	8.17	9.81	90.0
1/27/2007	7:30:00	4.0	132	8.16	9.95	91.3
1/27/2007	7:45:00	4.0	132	8.15	9.81	90.0
1/27/2007	8:00:00	4.1	132	8.16	9.84	90.3
1/27/2007	8:15:00	4.1	133	8.16	9.80	90.0
1/27/2007	8:30:00	4.1	133	8.17	9.90	90.9
1/27/2007	8:45:00	4.1	134	8.17	9.78	89.9
1/27/2007	9:00:00	4.1	134	8.17	9.86	90.7
1/27/2007	9:15:00	4.2	134	8.16	9.97	91.8
1/27/2007	9:30:00	4.2	134	8.15	10.01	92.2
1/27/2007	9:45:00	4.3	133	8.16	9.92	91.5
1/27/2007	10:00:00	4.3	131	8.16	9.83	90.8

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2007	10:15:00	4.4	131	8.17	9.87	91.3
1/27/2007	10:30:00	4.4	131	8.17	9.76	90.5
1/27/2007	10:45:00	4.5	131	8.16	9.86	91.6
1/27/2007	11:00:00	4.6	135	8.16	9.95	92.6
1/27/2007	11:15:00	4.7	143	8.16	9.87	92.0
1/27/2007	11:30:00	4.7	142	8.16	9.86	92.1
1/27/2007	11:45:00	4.9	141	8.16	9.84	92.3
1/27/2007	12:00:00	5.0	138	8.16	9.71	91.3
1/27/2007	12:15:00	5.1	136	8.17	9.84	92.9
1/27/2007	12:30:00	5.2	136	8.16	9.84	93.1
1/27/2007	12:45:00	5.4	134	8.15	9.69	91.9
1/27/2007	13:00:00	5.4	134	8.16	9.73	92.5
1/27/2007	13:15:00	5.5	133	8.21	9.65	91.9
1/27/2007	13:30:00	5.6	133	8.23	9.87	94.3
1/27/2007	13:45:00	5.7	133	8.13	9.86	94.5
1/27/2007	14:00:00	5.8	134	8.14	9.68	93.0
1/27/2007	14:15:00	5.9	134	8.16	9.79	94.2
1/27/2007	14:30:00	6.0	134	8.16	9.74	93.9
1/27/2007	14:45:00	6.0	134	8.17	9.62	92.9
1/27/2007	15:00:00	6.1	133	8.16	9.72	93.9
1/27/2007	15:15:00	6.1	132	8.16	9.59	92.7
1/27/2007	15:30:00	6.1	131	8.16	9.73	94.1
1/27/2007	15:45:00	6.1	131	8.16	9.79	94.7
1/27/2007	16:00:00	6.1	131	8.16	9.66	93.5
1/27/2007	16:15:00	6.1	130	8.17	9.73	94.2
1/27/2007	16:30:00	6.1	130	8.17	9.78	94.7
1/27/2007	16:45:00	6.1	131	8.17	9.84	95.2
1/27/2007	17:00:00	6.1	131	8.17	9.77	94.7
1/27/2007	17:15:00	6.1	131	8.16	9.77	94.6
1/27/2007	17:30:00	6.1	133	8.17	9.76	94.4
1/27/2007	17:45:00	6.1	131	8.17	9.75	94.4
1/27/2007	18:00:00	6.2	129	8.16	9.71	94.0
1/27/2007	18:15:00	6.2	130	8.17	9.62	93.2
1/27/2007	18:30:00	6.2	130	8.17	9.57	92.8
1/27/2007	18:45:00	6.2	130	8.16	9.75	94.5
1/27/2007	19:00:00	6.2	134	8.16	9.72	94.2
1/27/2007	19:15:00	6.2	143	8.15	9.72	94.2
1/27/2007	19:30:00	6.2	133	8.17	9.59	93.0
1/27/2007	19:45:00	6.2	129	8.16	9.61	93.2
1/27/2007	20:00:00	6.2	129	8.18	9.53	92.4
1/27/2007	20:15:00	6.2	127	8.16	9.60	93.2
1/27/2007	20:30:00	6.2	127	8.15	9.59	93.0
1/27/2007	20:45:00	6.2	127	8.16	9.29	90.1
1/27/2007	21:00:00	6.2	134	8.17	9.60	93.0
1/27/2007	21:15:00	6.1	149	8.18	9.54	92.4
1/27/2007	21:30:00	6.1	134	8.17	9.68	93.6

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2007	21:45:00	6.1	127	8.17	9.67	93.5
1/27/2007	22:00:00	6.0	126	8.16	9.63	93.0
1/27/2007	22:15:00	6.0	126	8.17	9.61	92.7
1/27/2007	22:30:00	5.9	135	8.18	9.66	93.1
1/27/2007	22:45:00	5.9	152	8.17	9.57	92.1
1/27/2007	23:00:00	5.8	151	8.18	9.60	92.3
1/27/2007	23:15:00	5.8	155	8.15	9.67	92.8
1/27/2007	23:30:00	5.7	142	8.15	9.67	92.7
1/27/2007	23:45:00	5.7	140	8.15	9.67	92.6
1/28/2007	0:00:00	5.6	135	8.17	9.68	92.4
1/28/2007	0:15:00	5.5	133	8.12	9.68	92.3
1/28/2007	0:30:00	5.5	133	8.21	9.56	91.1
1/28/2007	0:45:00	5.4	131	8.14	9.59	91.3
1/28/2007	1:00:00	5.4	126	8.15	9.62	91.4
1/28/2007	1:15:00	5.3	124	8.14	9.63	91.4
1/28/2007	1:30:00	5.3	123	8.15	9.59	90.9
1/28/2007	1:45:00	5.3	122	8.16	9.60	90.9
1/28/2007	2:00:00	5.2	122	8.17	9.65	91.2
1/28/2007	2:15:00	5.2	121	8.15	9.55	90.3
1/28/2007	2:30:00	5.1	121	8.17	9.61	90.7
1/28/2007	2:45:00	5.1	121	8.16	9.61	90.5
1/28/2007	3:00:00	5.0	121	8.16	9.79	92.2
1/28/2007	3:15:00	5.0	128	8.15	9.81	92.3
1/28/2007	3:30:00	4.9	137	8.17	9.76	91.6
1/28/2007	3:45:00	4.9	136	8.16	9.81	92.0
1/28/2007	4:00:00	4.8	131	8.16	9.84	92.1
1/28/2007	4:15:00	4.8	131	8.15	9.82	91.8
1/28/2007	4:30:00	4.7	130	8.16	9.86	92.1
1/28/2007	4:45:00	4.7	142	8.15	9.86	92.0
1/28/2007	5:00:00	4.7	131	8.15	9.75	90.9
1/28/2007	5:15:00	4.6	130	8.15	9.64	89.8
1/28/2007	5:30:00	4.6	132	8.16	9.87	91.8
1/28/2007	5:45:00	4.5	151	8.16	9.88	91.7
1/28/2007	6:00:00	4.5	137	8.15	9.87	91.6
1/28/2007	6:15:00	4.4	137	8.15	9.90	91.8
1/28/2007	6:30:00	4.4	137	8.16	9.83	91.0
1/28/2007	6:45:00	4.4	136	8.16	9.87	91.3
1/28/2007	7:00:00	4.3	131	8.16	9.86	91.1
1/28/2007	7:15:00	4.3	132	8.17	9.83	90.7
1/28/2007	7:30:00	4.2	134	8.16	9.92	91.5
1/28/2007	7:45:00	4.2	141	8.16	9.97	91.9
1/28/2007	8:00:00	4.2	133	8.15	10.00	92.1
1/28/2007	8:15:00	4.2	133	8.14	9.99	91.9
1/28/2007	8:30:00	4.2	131	8.14	10.02	92.2
1/28/2007	8:45:00	4.2	130	8.13	9.96	91.7
1/28/2007	9:00:00	4.2	131	8.15	9.96	91.7

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2007	9:15:00	4.3	133	8.15	9.90	91.3
1/28/2007	9:30:00	4.3	132	8.16	9.92	91.7
1/28/2007	9:45:00	4.4	130	8.16	9.99	92.4
1/28/2007	10:00:00	4.5	129	8.14	10.01	92.8
1/28/2007	10:15:00	4.5	129	8.14	10.05	93.4
1/28/2007	10:30:00	4.6	128	8.14	9.97	92.9
1/28/2007	10:45:00	4.8	130	8.14	9.94	92.9
1/28/2007	11:00:00	4.9	130	8.14	9.98	93.6
1/28/2007	11:15:00	5.0	139	8.15	9.98	93.8
1/28/2007	11:30:00	5.1	133	8.15	9.85	93.0
1/28/2007	11:45:00	5.3	131	8.16	10.04	95.1
1/28/2007	12:00:00	5.4	134	8.14	9.99	95.0
1/28/2007	12:15:00	5.6	136	8.11	10.01	95.5
1/28/2007	12:30:00	5.7	137	8.12	10.00	95.8
1/28/2007	12:45:00	5.9	152	8.16	9.88	95.0
1/28/2007	13:00:00	6.0	136	8.14	9.96	96.1
1/28/2007	13:15:00	6.2	132	8.14	10.01	96.9
1/28/2007	13:30:00	6.3	131	8.14	9.92	96.4
1/28/2007	13:45:00	6.5	131	8.14	9.91	96.7
1/28/2007	14:00:00	6.6	133	8.15	9.88	96.7
1/28/2007	14:15:00	6.7	132	8.14	9.72	95.5
1/28/2007	14:30:00	6.8	130	8.15	9.49	93.5
1/28/2007	14:45:00	6.9	129	8.16	9.68	95.6
1/28/2007	15:00:00	7.0	129	8.15	9.84	97.3
1/28/2007	15:15:00	7.1	129	8.15	9.77	96.8
1/28/2007	15:30:00	7.1	128	8.16	9.72	96.5
1/28/2007	15:45:00	7.2	129	8.16	9.65	96.0
1/28/2007	16:00:00	7.3	128	8.16	9.49	94.5
1/28/2007	16:15:00	7.3	127	8.16	9.45	94.2
1/28/2007	16:30:00	7.4	133	8.16	9.51	94.9
1/28/2007	16:45:00	7.4	153	8.17	9.52	95.1
1/28/2007	17:00:00	7.4	133	8.16	9.48	94.7
1/28/2007	17:15:00	7.4	130	8.16	9.60	96.0
1/28/2007	17:30:00	7.4	129	8.16	9.67	96.7
1/28/2007	17:45:00	7.5	128	8.15	9.66	96.6
1/28/2007	18:00:00	7.5	128	8.15	9.58	95.9
1/28/2007	18:15:00	7.5	128	8.15	9.29	93.0
1/28/2007	18:30:00	7.5	129	8.17	9.24	92.6
1/28/2007	18:45:00	7.5	130	8.17	9.51	95.3
1/28/2007	19:00:00	7.5	129	8.15	9.53	95.5
1/28/2007	19:15:00	7.5	128	8.15	9.40	94.2
1/28/2007	19:30:00	7.5	128	8.16	9.27	92.9
1/28/2007	19:45:00	7.5	127	8.16	9.10	91.2
1/28/2007	20:00:00	7.5	130	8.16	9.31	93.3
1/28/2007	20:15:00	7.5	140	8.15	9.43	94.5
1/28/2007	20:30:00	7.5	136	8.14	9.34	93.5

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2007	20:45:00	7.4	144	8.15	9.24	92.5
1/28/2007	21:00:00	7.4	144	8.15	9.37	93.7
1/28/2007	21:15:00	7.4	136	8.14	9.35	93.4
1/28/2007	21:30:00	7.3	140	8.14	9.35	93.2
1/28/2007	21:45:00	7.2	139	8.14	9.23	91.9
1/28/2007	22:00:00	7.2	132	8.15	9.28	92.2
1/28/2007	22:15:00	7.1	131	8.15	9.24	91.7
1/28/2007	22:30:00	7.0	131	8.14	9.36	92.7
1/28/2007	22:45:00	7.0	133	8.13	9.30	92.0
1/28/2007	23:00:00	6.9	131	8.13	9.42	93.0
1/28/2007	23:15:00	6.8	133	8.13	9.31	91.8
1/28/2007	23:30:00	6.8	139	8.13	9.35	91.9
1/28/2007	23:45:00	6.7	142	8.14	9.32	91.5
1/29/2007	0:00:00	6.6	139	8.13	9.41	92.2
1/29/2007	0:15:00	6.6	134	8.13	9.47	92.6
1/29/2007	0:30:00	6.5	132	8.12	9.42	92.0
1/29/2007	0:45:00	6.4	132	8.12	9.45	92.2
1/29/2007	1:00:00	6.3	128	8.13	9.46	92.0
1/29/2007	1:15:00	6.3	128	8.13	9.43	91.7
1/29/2007	1:30:00	6.2	136	8.14	9.39	91.2
1/29/2007	1:45:00	6.2	139	8.13	9.49	92.0
1/29/2007	2:00:00	6.1	137	8.13	9.46	91.6
1/29/2007	2:15:00	6.1	134	8.13	9.57	92.4
1/29/2007	2:30:00	6.0	135	8.12	9.51	91.7
1/29/2007	2:45:00	5.9	138	8.11	9.45	91.0
1/29/2007	3:00:00	5.9	148	8.15	9.46	91.0
1/29/2007	3:15:00	5.8	137	8.13	9.57	91.9
1/29/2007	3:30:00	5.8	141	8.11	9.55	91.6
1/29/2007	3:45:00	5.7	128	8.09	9.56	91.5
1/29/2007	4:00:00	5.7	140	8.10	9.47	90.6
1/29/2007	4:15:00	5.6	147	8.14	9.39	89.8
1/29/2007	4:30:00	5.6	147	8.11	9.57	91.3
1/29/2007	4:45:00	5.5	148	8.10	9.58	91.3
1/29/2007	5:00:00	5.5	150	8.10	9.60	91.4
1/29/2007	5:15:00	5.4	151	8.13	9.59	91.2
1/29/2007	5:30:00	5.4	138	8.15	9.65	91.6
1/29/2007	5:45:00	5.3	133	8.09	9.63	91.4
1/29/2007	6:00:00	5.3	137	8.11	9.59	90.9
1/29/2007	6:15:00	5.3	135	8.14	9.52	90.1
1/29/2007	6:30:00	5.2	136	8.12	9.51	90.0
1/29/2007	6:45:00	5.2	142	8.13	9.60	90.7
1/29/2007	7:00:00	5.1	142	8.14	9.52	89.8
1/29/2007	7:15:00	5.1	147	8.14	9.65	90.9
1/29/2007	7:30:00	5.0	159	8.13	9.54	89.8
1/29/2007	7:45:00	5.0	147	8.13	9.61	90.4
1/29/2007	8:00:00	5.0	148	8.13	9.56	89.9

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2007	8:15:00	5.0	135	8.13	9.59	90.2
1/29/2007	8:30:00	5.0	135	8.12	9.70	91.2
1/29/2007	8:45:00	5.0	133	8.12	9.69	91.2
1/29/2007	9:00:00	5.0	131	8.12	9.53	89.6
1/29/2007	9:15:00	5.1	131	8.12	9.74	91.7
1/29/2007	9:30:00	5.1	133	8.12	9.71	91.6
1/29/2007	9:45:00	5.2	132	8.12	9.55	90.3
1/29/2007	10:00:00	5.3	132	8.11	9.54	90.4
1/29/2007	10:15:00	5.4	132	8.14	9.53	90.6
1/29/2007	10:30:00	5.5	132	8.12	9.55	91.0
1/29/2007	10:45:00	5.6	132	8.09	9.55	91.3
1/29/2007	11:00:00	5.7	141	8.09	9.72	93.1
1/29/2007	11:15:00	5.8	151	8.17	9.64	92.4
1/29/2007	11:30:00	5.9	147	8.10	9.60	92.4
1/29/2007	11:45:00	6.0	149	8.11	9.66	93.1
1/29/2007	12:00:00	6.1	150	8.11	9.69	93.6
1/29/2007	12:15:00	6.2	160	8.13	9.61	93.1
1/29/2007	12:30:00	6.3	246	8.13	9.63	93.6
1/29/2007	12:45:00	6.4	222	8.13	9.55	93.1
1/29/2007	13:00:00	6.5	321	8.13	9.49	92.8
1/29/2007	13:15:00	6.7	341	8.13	9.51	93.4
1/29/2007	13:30:00	6.8	334	8.13	9.51	93.8
1/29/2007	13:45:00	7.0	247	8.14	9.42	93.2
1/29/2007	14:00:00	7.1	150	8.14	9.46	93.9
1/29/2007	14:15:00	7.3	178	8.13	9.39	93.6
1/29/2007	14:30:00	7.4	182	8.13	9.44	94.4
1/29/2007	14:45:00	7.5	203	8.12	9.44	94.6
1/29/2007	15:00:00	7.6	348	8.12	9.41	94.6
1/29/2007	15:15:00	7.7	241	8.13	9.33	94.0
1/29/2007	15:30:00	7.8	198	8.12	9.27	93.5
1/29/2007	15:45:00	7.9	226	8.12	9.23	93.3
1/29/2007	16:00:00	7.9	200	8.13	9.27	93.9
1/29/2007	16:15:00	7.9	192	8.12	9.31	94.3
1/29/2007	16:30:00	7.9	183	8.12	9.29	94.0
1/29/2007	16:45:00	7.9	180	8.12	9.24	93.6
1/29/2007	17:00:00	8.0	178	8.11	9.22	93.4
1/29/2007	17:15:00	8.0	164	8.12	9.13	92.6
1/29/2007	17:30:00	8.0	182	8.13	9.15	92.8
1/29/2007	17:45:00	8.0	200	8.13	9.20	93.3
1/29/2007	18:00:00	8.0	245	8.13	9.23	93.6
1/29/2007	18:15:00	8.0	229	8.12	9.18	93.1
1/29/2007	18:30:00	8.0	217	8.13	9.12	92.4
1/29/2007	18:45:00	8.0	179	8.13	9.16	92.8
1/29/2007	19:00:00	8.0	166	8.13	9.09	92.1
1/29/2007	19:15:00	7.9	174	8.13	9.14	92.5
1/29/2007	19:30:00	7.9	215	8.12	9.08	91.8

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2007	19:45:00	7.9	160	8.12	9.09	91.8
1/29/2007	20:00:00	7.8	177	8.11	9.07	91.7
1/29/2007	20:15:00	7.8	209	8.12	9.16	92.4
1/29/2007	20:30:00	7.7	210	8.12	9.10	91.7
1/29/2007	20:45:00	7.7	203	8.13	9.06	91.3
1/29/2007	21:00:00	7.6	153	8.13	8.93	89.8
1/29/2007	21:15:00	7.6	158	8.14	8.99	90.1
1/29/2007	21:30:00	7.5	168	8.14	8.93	89.4
1/29/2007	21:45:00	7.4	221	8.14	8.56	85.5
1/29/2007	22:00:00	7.3	329	8.15	8.57	85.5
1/29/2007	22:15:00	7.2	335	8.16	8.88	88.4
1/29/2007	22:30:00	7.1	299	8.16	8.88	88.2
1/29/2007	22:45:00	7.1	205	8.16	8.64	85.7
1/29/2007	23:00:00	7.0	320	8.16	7.83	77.5
1/29/2007	23:15:00	6.9	226	8.15	7.87	77.7
1/29/2007	23:30:00	6.8	263	8.15	8.05	79.3
1/29/2007	23:45:00	6.7	301	8.15	8.73	85.8
1/30/2007	0:00:00	6.6	303	8.15	8.70	85.4
1/30/2007	0:15:00	6.6	245	8.16	8.88	86.9
1/30/2007	0:30:00	6.5	246	8.15	8.57	83.7
1/30/2007	0:45:00	6.4	256	8.16	8.65	84.3
1/30/2007	1:00:00	6.3	183	8.16	8.70	84.6
1/30/2007	1:15:00	6.2	209	8.15	8.59	83.4
1/30/2007	1:30:00	6.1	208	8.15	8.68	84.1
1/30/2007	1:45:00	6.1	218	8.15	9.05	87.4
1/30/2007	2:00:00	6.0	245	8.14	8.95	86.4
1/30/2007	2:15:00	5.9	227	8.15	9.04	87.0
1/30/2007	2:30:00	5.8	220	8.13	9.19	88.3
1/30/2007	2:45:00	5.8	340	8.12	9.17	88.0
1/30/2007	3:00:00	5.7	344	8.18	9.09	87.1
1/30/2007	3:15:00	5.6	347	8.12	9.17	87.8
1/30/2007	3:30:00	5.6	354	8.12	9.27	88.5
1/30/2007	3:45:00	5.5	363	8.20	9.26	88.3
1/30/2007	4:00:00	5.4	359	8.14	9.26	88.2
1/30/2007	4:15:00	5.4	364	8.14	9.24	87.8
1/30/2007	4:30:00	5.3	362	8.12	9.32	88.4
1/30/2007	4:45:00	5.3	335	8.12	9.40	89.1
1/30/2007	5:00:00	5.2	370	8.16	9.55	90.4
1/30/2007	5:15:00	5.2	389	8.17	9.34	88.3
1/30/2007	5:30:00	5.1	377	8.16	8.24	77.8
1/30/2007	5:45:00	5.1	341	8.17	8.26	77.9
1/30/2007	6:00:00	5.0	352	8.17	8.01	75.4
1/30/2007	6:15:00	5.0	283	8.14	7.89	74.2
1/30/2007	6:30:00	4.9	390	8.15	8.07	75.8
1/30/2007	6:45:00	4.8	331	8.16	8.03	75.3
1/30/2007	7:00:00	4.8	270	8.14	7.91	74.0

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2007	7:15:00	4.8	277	8.17	7.51	70.2
1/30/2007	7:30:00	4.7	314	8.15	8.12	75.8
1/30/2007	7:45:00	4.7	325	8.16	7.60	70.9
1/30/2007	8:00:00	4.7	355	8.17	7.76	72.3
1/30/2007	8:15:00	4.6	405	8.16	7.80	72.7
1/30/2007	8:30:00	4.6	404	8.17	7.93	73.9
1/30/2007	8:45:00	4.6	383	8.16	7.81	72.8
1/30/2007	9:00:00	4.6	340	8.14	7.92	73.9
1/30/2007	9:15:00	4.7	232	8.17	7.36	68.7
1/30/2007	9:30:00	4.7	305	8.17	7.56	70.6
1/30/2007	9:45:00	4.7	281	8.17	7.61	71.2
1/30/2007	10:00:00	4.8	250	8.16	7.23	67.7
1/30/2007	10:15:00	4.8	278	8.15	7.53	70.6
1/30/2007	10:30:00	4.9	228	8.17	7.17	67.2
1/30/2007	10:45:00	5.0	272	8.17	7.09	66.7
1/30/2007	11:00:00	5.0	220	8.15	7.20	67.8
1/30/2007	11:15:00	5.1	234	8.17	6.97	65.8
1/30/2007	11:30:00	5.3	242	8.14	7.00	66.3
1/30/2007	11:45:00	5.4	296	8.19	7.01	66.6
1/30/2007	12:00:00	5.5	265	8.12	7.08	67.5
1/30/2007	12:15:00	5.6	241	8.12	6.87	65.7
1/30/2007	12:30:00	5.7	280	8.18	7.00	67.0
1/30/2007	12:45:00	5.8	232	8.11	7.09	68.0
1/30/2007	13:00:00	5.8	214	8.14	6.88	66.1
1/30/2007	13:15:00	5.8	291	8.13	7.00	67.3
1/30/2007	13:30:00	5.9	193	8.14	6.82	65.6
1/30/2007	13:45:00	5.9	221	8.14	6.93	66.7
1/30/2007	14:00:00	5.9	257	8.16	7.05	68.0
1/30/2007	14:15:00	6.0	220	8.15	7.00	67.5
1/30/2007	14:30:00	6.0	263	8.14	7.05	68.1
1/30/2007	14:45:00	6.1	238	8.14	7.00	67.7
1/30/2007	15:00:00	6.1	292	8.13	7.02	68.0
1/30/2007	15:15:00	6.1	321	8.13	7.04	68.2
1/30/2007	15:30:00	6.2	255	8.13	7.14	69.3
1/30/2007	15:45:00	6.2	266	8.13	7.07	68.6
1/30/2007	16:00:00	6.2	259	8.15	7.02	68.1
1/30/2007	16:15:00	6.3	273	8.13	7.17	69.7
1/30/2007	16:30:00	6.3	288	8.14	7.06	68.6
1/30/2007	16:45:00	6.3	270	8.14	7.28	70.9
1/30/2007	17:00:00	6.3	310	8.14	7.27	70.8
1/30/2007	17:15:00	6.4	199	8.15	7.11	69.3
1/30/2007	17:30:00	6.4	270	8.16	7.69	74.9
1/30/2007	17:45:00	6.4	299	8.15	7.83	76.3
1/30/2007	18:00:00	6.4	352	8.17	7.50	73.2
1/30/2007	18:15:00	6.4	299	8.16	7.34	71.6
1/30/2007	18:30:00	6.4	257	8.18	7.33	71.5

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2007	18:45:00	6.5	295	8.15	7.03	68.7
1/30/2007	19:00:00	6.5	259	8.17	7.08	69.2
1/30/2007	19:15:00	6.5	323	8.13	7.03	68.7
1/30/2007	19:30:00	6.5	339	8.16	7.13	69.8
1/30/2007	19:45:00	6.5	338	8.14	7.07	69.2
1/30/2007	20:00:00	6.6	325	8.14	7.14	69.9
1/30/2007	20:15:00	6.6	339	8.16	6.91	67.7
1/30/2007	20:30:00	6.6	316	8.16	7.02	68.7
1/30/2007	20:45:00	6.5	350	8.15	7.03	68.9
1/30/2007	21:00:00	6.5	354	8.16	6.87	67.3
1/30/2007	21:15:00	6.5	345	8.17	7.03	68.8
1/30/2007	21:30:00	6.5	371	8.15	7.08	69.3
1/30/2007	21:45:00	6.5	357	8.15	7.39	72.2
1/30/2007	22:00:00	6.5	294	8.12	7.16	70.0
1/30/2007	22:15:00	6.5	355	8.12	7.74	75.7
1/30/2007	22:30:00	6.5	394	8.09	7.38	72.1
1/30/2007	22:45:00	6.4	395	8.10	7.18	70.1
1/30/2007	23:00:00	6.4	377	8.10	7.22	70.4
1/30/2007	23:15:00	6.4	367	8.09	7.76	75.6
1/30/2007	23:30:00	6.4	389	8.11	7.85	76.5
1/30/2007	23:45:00	6.3	398	8.15	7.38	71.9
1/31/2007	0:00:00	6.3	381	8.18	7.19	70.0
1/31/2007	0:15:00	6.3	120	8.15	5.61	54.6
1/31/2007	0:30:00	6.3	118	8.14	4.87	47.3
1/31/2007	0:45:00	6.3	403	8.18	5.64	54.9
1/31/2007	1:00:00	6.3	129	8.14	5.09	49.5
1/31/2007	1:15:00	6.3	128	8.12	5.02	48.8
1/31/2007	1:30:00	6.2	127	8.12	4.95	48.1
1/31/2007	1:45:00	6.2	126	8.12	4.61	44.7
1/31/2007	2:00:00	6.2	170	8.14	5.09	49.3
1/31/2007	2:15:00	6.1	405	8.16	4.89	47.5
1/31/2007	2:30:00	6.1	402	8.17	5.61	54.3
1/31/2007	2:45:00	6.1	403	8.16	6.79	65.8
1/31/2007	3:00:00	6.1	405	8.15	6.95	67.3
1/31/2007	3:15:00	6.1	402	8.16	7.34	71.1
1/31/2007	3:30:00	6.0	404	8.16	7.13	69.0
1/31/2007	3:45:00	6.0	404	8.18	5.34	51.6
1/31/2007	4:00:00	6.0	406	8.18	8.15	78.7
1/31/2007	4:15:00	6.0	405	8.18	9.33	90.0
1/31/2007	4:30:00	5.9	134	8.14	5.43	52.3
1/31/2007	4:45:00	5.9	132	8.14	5.89	56.7
1/31/2007	5:00:00	5.9	131	8.12	5.15	49.6
1/31/2007	5:15:00	5.9	131	8.13	6.54	62.9
1/31/2007	5:30:00	5.8	130	8.12	5.23	50.2
1/31/2007	5:45:00	5.8	129	8.15	5.71	54.7
1/31/2007	6:00:00	5.7	129	8.15	5.94	57.0

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2007	6:15:00	5.7	130	8.17	5.80	55.6
1/31/2007	6:30:00	5.7	129	8.16	5.88	56.3
1/31/2007	6:45:00	5.7	129	8.15	5.72	54.7
1/31/2007	7:00:00	5.6	129	8.14	6.23	59.6
1/31/2007	7:15:00	5.6	129	8.13	6.16	58.9
1/31/2007	7:30:00	5.6	129	8.16	5.11	48.8
1/31/2007	7:45:00	5.6	129	8.14	4.86	46.4
1/31/2007	8:00:00	5.6	129	8.17	5.37	51.3
1/31/2007	8:15:00	5.6	129	8.14	6.03	57.5
1/31/2007	8:30:00	5.6	129	8.19	6.59	63.0
1/31/2007	8:45:00	5.6	128	8.15	6.35	60.7
1/31/2007	9:00:00	5.7	128	8.18	6.58	63.0
1/31/2007	9:15:00	5.8	129	8.20	6.18	59.2
1/31/2007	9:30:00	5.8	416	8.21	8.55	82.2
1/31/2007	9:45:00	5.9	416	8.21	8.01	77.2
1/31/2007	10:00:00	6.0	416	8.20	8.20	79.1
1/31/2007	10:15:00	6.0	417	8.18	8.22	79.4
1/31/2007	10:30:00	6.1	418	8.18	8.50	82.3
1/31/2007	10:45:00	6.2	419	8.20	8.79	85.4
1/31/2007	11:00:00	6.3	416	8.13	9.33	90.9
1/31/2007	11:15:00	6.4	419	8.26	9.56	93.3
1/31/2007	11:30:00	6.4	418	8.26	9.54	93.2
1/31/2007	11:45:00	6.5	418	8.26	9.56	93.4
1/31/2007	12:00:00	6.5	419	8.26	9.58	93.6
1/31/2007	12:15:00	6.5	418	8.26	9.61	94.0
1/31/2007	12:30:00	6.5	418	8.26	9.56	93.6
1/31/2007	12:45:00	6.6	418	8.26	9.58	93.9
1/31/2007	13:00:00	6.7	418	8.26	9.53	93.6
1/31/2007	13:15:00	6.8	418	8.26	9.55	94.0
1/31/2007	13:30:00	6.9	419	8.26	9.56	94.5
1/31/2007	13:45:00	7.0	419	8.26	9.52	94.3
1/31/2007	14:00:00	7.0	419	8.26	9.50	94.2
1/31/2007	14:15:00	7.1	419	8.26	9.48	94.1
1/31/2007	14:30:00	7.1	419	8.26	9.50	94.3
1/31/2007	14:45:00	7.2	419	8.26	9.49	94.4
1/31/2007	15:00:00	7.3	419	8.26	9.50	94.7
1/31/2007	15:15:00	7.3	419	8.26	9.38	93.6
1/31/2007	15:30:00	7.4	419	8.26	9.40	94.0
1/31/2007	15:45:00	7.4	420	8.26	9.45	94.4
1/31/2007	16:00:00	7.4	420	8.26	9.37	93.7
1/31/2007	16:15:00	7.4	420	8.26	9.42	94.2
1/31/2007	16:30:00	7.4	421	8.26	9.40	94.0
1/31/2007	16:45:00	7.4	421	8.26	9.42	94.1
1/31/2007	17:00:00	7.3	421	8.27	9.39	93.8
1/31/2007	17:15:00	7.3	421	8.26	9.38	93.6
1/31/2007	17:30:00	7.3	421	8.26	9.32	92.9

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2007	17:45:00	7.2	422	8.26	9.37	93.4
1/31/2007	18:00:00	7.2	422	8.26	9.34	93.0
1/31/2007	18:15:00	7.2	422	8.26	9.37	93.3
1/31/2007	18:30:00	7.2	422	8.26	9.39	93.4
1/31/2007	18:45:00	7.2	423	8.27	9.31	92.6
1/31/2007	19:00:00	7.1	423	8.26	9.36	93.0
1/31/2007	19:15:00	7.1	423	8.26	9.25	91.9
1/31/2007	19:30:00	7.1	423	8.26	9.35	92.8
1/31/2007	19:45:00	7.0	423	8.26	9.32	92.4
1/31/2007	20:00:00	7.0	423	8.25	9.29	92.0
1/31/2007	20:15:00	6.9	423	8.25	9.25	91.5
1/31/2007	20:30:00	6.9	422	8.25	9.26	91.5
1/31/2007	20:45:00	6.8	423	8.25	9.32	91.9
1/31/2007	21:00:00	6.8	422	8.25	9.26	91.3
1/31/2007	21:15:00	6.7	422	8.24	9.21	90.7
1/31/2007	21:30:00	6.7	422	8.24	9.25	90.9
1/31/2007	21:45:00	6.7	422	8.24	9.34	91.7
1/31/2007	22:00:00	6.6	422	8.24	9.35	91.7
1/31/2007	22:15:00	6.5	421	8.24	9.31	91.2
1/31/2007	22:30:00	6.5	421	8.24	9.31	91.0
1/31/2007	22:45:00	6.4	421	8.24	9.31	90.9
1/31/2007	23:00:00	6.4	420	8.24	9.29	90.6
1/31/2007	23:15:00	6.3	420	8.24	9.34	91.0
1/31/2007	23:30:00	6.3	420	8.24	9.33	90.7
1/31/2007	23:45:00	6.2	420	8.23	9.30	90.2
2/1/2007	0:00:00	6.1	419	8.23	9.23	89.5
2/1/2007	0:15:00	6.1	419	8.24	9.36	90.6
2/1/2007	0:30:00	6.0	419	8.24	9.40	90.9
2/1/2007	0:45:00	6.0	419	8.22	9.37	90.4
2/1/2007	1:00:00	5.9	418	8.23	9.40	90.6
2/1/2007	1:15:00	5.9	418	8.26	9.48	91.2
2/1/2007	1:30:00	5.8	417	8.27	9.41	90.4
2/1/2007	1:45:00	5.8	417	8.21	9.47	90.9
2/1/2007	2:00:00	5.7	417	8.20	9.35	89.7
2/1/2007	2:15:00	5.7	417	8.20	9.38	89.9
2/1/2007	2:30:00	5.6	417	8.25	9.41	90.1
2/1/2007	2:45:00	5.6	417	8.26	9.41	90.0
2/1/2007	3:00:00	5.6	417	8.21	9.44	90.1
2/1/2007	3:15:00	5.5	412	8.23	9.44	90.0
2/1/2007	3:30:00	5.5	124	8.17	6.61	62.9
2/1/2007	3:45:00	5.5	122	8.16	6.40	61.0
2/1/2007	4:00:00	5.4	120	8.23	6.20	59.0
2/1/2007	4:15:00	5.2	418	8.22	9.64	91.3
2/1/2007	4:30:00	5.2	419	8.23	9.56	90.4
2/1/2007	4:45:00	5.1	420	8.23	9.57	90.4
2/1/2007	5:00:00	5.1	421	8.23	9.64	90.9

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/1/2007	5:15:00	5.0	421	8.21	8.68	81.8
2/1/2007	5:30:00	5.1	119	8.18	6.29	59.2
2/1/2007	5:45:00	5.1	118	8.17	5.74	54.1
2/1/2007	6:00:00	5.1	118	8.18	5.98	56.4
2/1/2007	6:15:00	5.1	118	8.21	6.10	57.5
2/1/2007	6:30:00	4.9	423	8.25	9.46	88.7
2/1/2007	6:45:00	4.8	425	8.25	9.40	88.1
2/1/2007	7:00:00	4.8	129	8.24	6.73	63.0
2/1/2007	7:15:00	4.8	126	8.21	6.60	61.8
2/1/2007	7:30:00	4.8	125	8.22	7.33	68.7
2/1/2007	7:45:00	4.8	124	8.23	5.99	56.1
2/1/2007	8:00:00	4.8	125	8.22	7.25	67.8
2/1/2007	8:15:00	4.8	124	8.22	5.88	55.0
2/1/2007	8:30:00	4.8	124	8.20	5.93	55.5
2/1/2007	8:45:00	4.7	430	8.24	9.77	91.3
2/1/2007	9:00:00	4.8	431	8.24	9.70	90.8
2/1/2007	9:15:00	4.8	432	8.24	9.71	90.9
2/1/2007	9:30:00	4.8	121	8.20	7.57	70.8
2/1/2007	9:45:00	4.8	119	8.21	7.05	66.0
2/1/2007	10:00:00	4.8	119	8.22	7.11	66.5
2/1/2007	10:15:00	4.9	118	8.21	6.84	64.1
2/1/2007	10:30:00	4.9	119	8.22	7.16	67.1
2/1/2007	10:45:00	4.9	119	8.24	6.28	58.9
2/1/2007	11:00:00	5.0	120	8.22	6.47	60.8
2/1/2007	11:15:00	5.0	131	8.22	7.59	71.4
2/1/2007	11:30:00	5.0	131	8.23	5.65	53.2
2/1/2007	11:45:00	5.0	130	8.20	5.84	55.0
2/1/2007	12:00:00	5.0	130	8.21	5.45	51.3
2/1/2007	12:15:00	5.0	130	8.20	5.43	51.1
2/1/2007	12:30:00	5.1	130	8.19	5.48	51.6
2/1/2007	12:45:00	5.1	129	8.18	5.14	48.4
2/1/2007	13:00:00	5.1	129	8.17	5.35	50.4
2/1/2007	13:15:00	5.1	129	8.17	5.77	54.4
2/1/2007	13:30:00	5.2	130	8.19	4.84	45.7
2/1/2007	13:45:00	5.2	130	8.15	4.81	45.5
2/1/2007	14:00:00	5.2	129	8.18	4.50	42.5
2/1/2007	14:15:00	5.3	130	8.15	4.58	43.4
2/1/2007	14:30:00	5.3	130	8.16	4.83	45.7
2/1/2007	14:45:00	5.3	130	8.13	5.30	50.2
2/1/2007	15:00:00	5.4	131	8.15	7.47	71.1
2/1/2007	15:15:00	5.7	131	8.28	7.24	69.2
2/1/2007	15:30:00	5.7	131	8.19	5.51	52.7
2/1/2007	15:45:00	5.7	130	8.21	6.05	57.9
2/1/2007	16:00:00	5.7	130	8.19	5.59	53.6
2/1/2007	16:15:00	5.7	130	8.18	5.60	53.6
2/1/2007	16:30:00	5.7	130	8.18	5.10	48.9

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/1/2007	16:45:00	5.7	130	8.15	5.11	49.0
2/1/2007	17:00:00	5.8	130	8.13	4.75	45.6
2/1/2007	17:15:00	5.7	130	8.17	4.70	45.1
2/1/2007	17:30:00	5.7	129	8.15	4.61	44.1
2/1/2007	17:45:00	5.7	129	8.19	4.70	45.1
2/1/2007	18:00:00	5.7	129	8.11	5.06	48.5
2/1/2007	18:15:00	5.7	130	8.12	4.50	43.1
2/1/2007	18:30:00	5.7	129	8.15	4.44	42.5
2/1/2007	18:45:00	5.7	129	8.17	4.49	43.0
2/1/2007	19:00:00	5.7	129	8.17	4.01	38.4
2/1/2007	19:15:00	5.7	129	8.09	4.17	39.9
2/1/2007	19:30:00	5.7	129	8.08	4.12	39.5
2/1/2007	19:45:00	5.7	129	8.12	4.64	44.4
2/1/2007	20:00:00	5.7	129	8.13	4.31	41.3
2/1/2007	20:15:00	5.7	129	8.16	3.98	38.1
2/1/2007	20:30:00	5.7	129	8.09	4.21	40.3
2/1/2007	20:45:00	5.7	129	8.12	3.95	37.8
2/1/2007	21:00:00	5.7	129	8.17	4.10	39.2
2/1/2007	21:15:00	5.7	129	8.13	4.19	40.1
2/1/2007	21:30:00	5.7	129	8.12	3.85	36.8
2/1/2007	21:45:00	5.7	129	8.11	3.63	34.7
2/1/2007	22:00:00	5.6	129	8.10	3.90	37.3
2/1/2007	22:15:00	5.6	128	8.17	4.45	42.5
2/1/2007	22:30:00	5.6	128	8.08	5.40	51.5
2/1/2007	22:45:00	5.5	128	8.07	5.81	55.4
2/1/2007	23:00:00	5.5	128	8.14	4.76	45.4
2/1/2007	23:15:00	5.5	128	8.08	5.20	49.5
2/1/2007	23:30:00	5.4	128	8.06	5.10	48.4
2/1/2007	23:45:00	5.4	128	8.09	4.33	41.1
2/2/2007	0:00:00	5.4	128	8.11	4.55	43.3
2/2/2007	0:15:00	5.4	128	8.11	4.14	39.3
2/2/2007	0:30:00	5.4	127	8.05	4.05	38.5
2/2/2007	0:45:00	5.3	127	8.07	4.10	38.9
2/2/2007	1:00:00	5.3	127	8.05	4.13	39.2
2/2/2007	1:15:00	5.2	126	8.03	5.67	53.6
2/2/2007	1:30:00	5.1	125	8.11	6.49	61.3
2/2/2007	1:45:00	5.1	125	8.14	6.89	65.0
2/2/2007	2:00:00	4.8	124	8.15	7.14	66.8
2/2/2007	2:15:00	4.5	437	8.20	6.62	61.6
2/2/2007	2:30:00	4.5	130	8.23	7.33	68.1
2/2/2007	2:45:00	4.7	128	8.23	6.81	63.6
2/2/2007	3:00:00	4.7	126	8.21	6.58	61.4
2/2/2007	3:15:00	4.6	126	8.21	6.76	62.9
2/2/2007	3:30:00	4.5	126	8.20	6.96	64.7
2/2/2007	3:45:00	4.3	126	8.20	6.95	64.1
2/2/2007	4:00:00	4.2	126	8.21	7.65	70.4

Table 5.25. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/2/2007	4:15:00	4.1	126	8.23	7.28	66.9
2/2/2007	4:30:00	4.2	125	8.21	6.95	63.9
2/2/2007	4:45:00	4.2	125	8.21	6.72	61.9
2/2/2007	5:00:00	4.2	124	8.20	7.00	64.6
2/2/2007	5:15:00	4.2	124	8.20	6.67	61.5
2/2/2007	5:30:00	4.2	124	8.19	6.46	59.6
2/2/2007	5:45:00	4.2	124	8.19	5.44	50.1
2/2/2007	6:00:00	4.2	123	8.17	6.43	59.2
2/2/2007	6:15:00	4.1	123	8.13	6.52	59.8
2/2/2007	6:30:00	4.0	123	8.14	6.25	57.3
2/2/2007	6:45:00	4.0	123	8.19	7.01	64.2
2/2/2007	7:00:00	4.0	123	8.21	5.65	51.7
2/2/2007	7:15:00	4.0	123	8.21	5.22	47.8
2/2/2007	7:30:00	4.0	123	8.22	5.32	48.8
2/2/2007	7:45:00	4.0	123	8.19	5.53	50.6
2/2/2007	8:00:00	3.9	123	8.20	5.06	46.3
2/2/2007	8:15:00	3.9	123	8.19	4.90	44.8
2/2/2007	8:30:00	4.0	123	8.20	4.55	41.6
2/2/2007	8:45:00	4.0	123	8.19	4.43	40.6
2/2/2007	9:00:00	4.0	123	8.19	4.42	40.5
2/2/2007	9:15:00	4.0	123	8.19	4.40	40.3
2/2/2007	9:30:00	4.0	122	8.19	4.36	39.9
2/2/2007	9:45:00	4.0	123	8.14	4.64	42.5

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:22:02
Report from file:	...\SN45475 2007-01-22 100000 Site3_1_21_2007.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45475	
Firmware Version	1.58	
Unit name:	Athena	
Barometric Pressure:		629.511
Test defined on:	1/21/2007	17:11:49
Test scheduled for:	1/22/2007	10:00:00
Test started on:	1/22/2007	10:00:00
Test stopped on:	4/13/2007	5:01:47
Data gathered using linear testing		
Time between data points		900 seconds
Number of data samples:		7757

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
1/26/2007	16:30:00	6.7	10.25	101.3
1/26/2007	16:45:00	6.7	10.22	101.1
1/26/2007	17:00:00	6.7	10.20	101.0
1/26/2007	17:15:00	6.7	10.19	100.7
1/26/2007	17:30:00	6.7	10.17	100.6
1/26/2007	17:45:00	6.7	10.16	100.4
1/26/2007	18:00:00	6.6	10.15	100.2
1/26/2007	18:15:00	6.6	10.15	100.1
1/26/2007	18:30:00	6.5	10.15	99.9
1/26/2007	18:45:00	6.5	10.15	99.8
1/26/2007	19:00:00	6.4	10.16	99.5
1/26/2007	19:15:00	6.2	10.16	99.3
1/26/2007	19:30:00	6.1	10.17	99.1
1/26/2007	19:45:00	6.0	10.17	98.9
1/26/2007	20:00:00	6.0	10.18	98.8
1/26/2007	20:15:00	5.9	10.19	98.7
1/26/2007	20:30:00	5.8	10.21	98.6
1/26/2007	20:45:00	5.7	10.22	98.5
1/26/2007	21:00:00	5.6	10.23	98.4
1/26/2007	21:15:00	5.5	10.24	98.3
1/26/2007	21:30:00	5.5	10.26	98.2
1/26/2007	21:45:00	5.4	10.27	98.2
1/26/2007	22:00:00	5.3	10.29	98.1
1/26/2007	22:15:00	5.2	10.31	98.0
1/26/2007	22:30:00	5.1	10.32	97.9
1/26/2007	22:45:00	5.0	10.34	97.8
1/26/2007	23:00:00	4.9	10.36	97.8
1/26/2007	23:15:00	4.8	10.38	97.7
1/26/2007	23:30:00	4.7	10.41	97.7

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2007	23:45:00	4.6	10.43	97.8
1/27/2007	0:00:00	4.6	10.45	97.8
1/27/2007	0:15:00	4.5	10.47	97.8
1/27/2007	0:30:00	4.4	10.49	97.8
1/27/2007	0:45:00	4.4	10.50	97.8
1/27/2007	1:00:00	4.3	10.52	97.8
1/27/2007	1:15:00	4.3	10.53	97.8
1/27/2007	1:30:00	4.2	10.55	97.8
1/27/2007	1:45:00	4.2	10.56	97.9
1/27/2007	2:00:00	4.1	10.57	97.9
1/27/2007	2:15:00	4.1	10.59	97.9
1/27/2007	2:30:00	4.0	10.61	97.9
1/27/2007	2:45:00	4.0	10.63	98.0
1/27/2007	3:00:00	3.9	10.64	98.0
1/27/2007	3:15:00	3.9	10.66	98.1
1/27/2007	3:30:00	3.9	10.67	98.1
1/27/2007	3:45:00	3.8	10.68	98.1
1/27/2007	4:00:00	3.8	10.69	98.1
1/27/2007	4:15:00	3.8	10.70	98.2
1/27/2007	4:30:00	3.8	10.71	98.2
1/27/2007	4:45:00	3.8	10.72	98.2
1/27/2007	5:00:00	3.7	10.73	98.3
1/27/2007	5:15:00	3.7	10.74	98.3
1/27/2007	5:30:00	3.7	10.75	98.3
1/27/2007	5:45:00	3.7	10.75	98.3
1/27/2007	6:00:00	3.7	10.76	98.3
1/27/2007	6:15:00	3.6	10.77	98.4
1/27/2007	6:30:00	3.6	10.77	98.4
1/27/2007	6:45:00	3.6	10.78	98.4
1/27/2007	7:00:00	3.6	10.78	98.4
1/27/2007	7:15:00	3.6	10.79	98.4
1/27/2007	7:30:00	3.6	10.79	98.4
1/27/2007	7:45:00	3.6	10.80	98.4
1/27/2007	8:00:00	3.5	10.80	98.4
1/27/2007	8:15:00	3.6	10.81	98.5
1/27/2007	8:30:00	3.5	10.81	98.6
1/27/2007	8:45:00	3.6	10.82	98.6
1/27/2007	9:00:00	3.6	10.82	98.7
1/27/2007	9:15:00	3.6	10.83	98.8
1/27/2007	9:30:00	3.6	10.84	98.9
1/27/2007	9:45:00	3.6	10.84	99.0
1/27/2007	10:00:00	3.7	10.85	99.2
1/27/2007	10:15:00	3.7	10.85	99.3
1/27/2007	10:30:00	3.8	10.86	99.5
1/27/2007	10:45:00	3.8	10.86	99.7
1/27/2007	11:00:00	3.9	10.86	100.0
1/27/2007	11:15:00	4.0	10.86	100.3

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2007	11:30:00	4.2	10.85	100.5
1/27/2007	11:45:00	4.4	10.85	101.0
1/27/2007	12:00:00	4.6	10.84	101.5
1/27/2007	12:15:00	4.9	10.82	102.0
1/27/2007	12:30:00	5.1	10.79	102.4
1/27/2007	12:45:00	5.3	10.77	102.7
1/27/2007	13:00:00	5.4	10.75	102.8
1/27/2007	13:15:00	5.6	10.72	103.1
1/27/2007	13:30:00	5.9	10.69	103.5
1/27/2007	13:45:00	6.1	10.66	103.7
1/27/2007	14:00:00	6.2	10.62	103.7
1/27/2007	14:15:00	6.5	10.58	103.9
1/27/2007	14:30:00	6.6	10.54	104.0
1/27/2007	14:45:00	6.7	10.50	103.9
1/27/2007	15:00:00	6.9	10.47	103.9
1/27/2007	15:15:00	6.9	10.42	103.7
1/27/2007	15:30:00	7.0	10.39	103.5
1/27/2007	15:45:00	7.0	10.36	103.3
1/27/2007	16:00:00	7.1	10.34	103.1
1/27/2007	16:15:00	7.1	10.31	103.0
1/27/2007	16:30:00	7.1	10.29	102.7
1/27/2007	16:45:00	7.1	10.28	102.5
1/27/2007	17:00:00	7.0	10.26	102.3
1/27/2007	17:15:00	7.0	10.24	102.0
1/27/2007	17:30:00	7.0	10.23	101.8
1/27/2007	17:45:00	6.9	10.21	101.5
1/27/2007	18:00:00	6.9	10.20	101.3
1/27/2007	18:15:00	6.8	10.18	101.1
1/27/2007	18:30:00	6.8	10.17	100.8
1/27/2007	18:45:00	6.7	10.17	100.6
1/27/2007	19:00:00	6.7	10.16	100.4
1/27/2007	19:15:00	6.6	10.16	100.2
1/27/2007	19:30:00	6.5	10.15	100.0
1/27/2007	19:45:00	6.5	10.15	99.8
1/27/2007	20:00:00	6.4	10.15	99.6
1/27/2007	20:15:00	6.3	10.15	99.4
1/27/2007	20:30:00	6.3	10.15	99.3
1/27/2007	20:45:00	6.2	10.16	99.1
1/27/2007	21:00:00	6.1	10.17	99.0
1/27/2007	21:15:00	6.0	10.17	98.8
1/27/2007	21:30:00	5.9	10.18	98.7
1/27/2007	21:45:00	5.8	10.20	98.6
1/27/2007	22:00:00	5.7	10.21	98.5
1/27/2007	22:15:00	5.6	10.22	98.4
1/27/2007	22:30:00	5.5	10.24	98.3
1/27/2007	22:45:00	5.5	10.25	98.3
1/27/2007	23:00:00	5.4	10.27	98.2

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2007	23:15:00	5.3	10.29	98.1
1/27/2007	23:30:00	5.2	10.31	98.1
1/27/2007	23:45:00	5.1	10.33	98.0
1/28/2007	0:00:00	5.0	10.35	98.0
1/28/2007	0:15:00	4.9	10.37	98.0
1/28/2007	0:30:00	4.8	10.40	97.9
1/28/2007	0:45:00	4.7	10.42	97.9
1/28/2007	1:00:00	4.6	10.45	97.9
1/28/2007	1:15:00	4.5	10.47	97.9
1/28/2007	1:30:00	4.4	10.49	97.8
1/28/2007	1:45:00	4.3	10.52	97.8
1/28/2007	2:00:00	4.2	10.54	97.8
1/28/2007	2:15:00	4.1	10.57	97.7
1/28/2007	2:30:00	4.0	10.59	97.7
1/28/2007	2:45:00	3.9	10.61	97.6
1/28/2007	3:00:00	3.8	10.63	97.6
1/28/2007	3:15:00	3.7	10.65	97.5
1/28/2007	3:30:00	3.6	10.67	97.5
1/28/2007	3:45:00	3.6	10.68	97.4
1/28/2007	4:00:00	3.5	10.70	97.4
1/28/2007	4:15:00	3.4	10.72	97.3
1/28/2007	4:30:00	3.3	10.73	97.2
1/28/2007	4:45:00	3.3	10.75	97.2
1/28/2007	5:00:00	3.2	10.76	97.1
1/28/2007	5:15:00	3.1	10.78	97.1
1/28/2007	5:30:00	3.1	10.79	97.1
1/28/2007	5:45:00	3.0	10.81	97.1
1/28/2007	6:00:00	2.9	10.82	97.0
1/28/2007	6:15:00	2.9	10.84	97.0
1/28/2007	6:30:00	2.8	10.85	96.9
1/28/2007	6:45:00	2.7	10.87	96.9
1/28/2007	7:00:00	2.7	10.88	96.9
1/28/2007	7:15:00	2.6	10.89	96.9
1/28/2007	7:30:00	2.6	10.91	96.9
1/28/2007	7:45:00	2.6	10.92	96.9
1/28/2007	8:00:00	2.5	10.94	97.0
1/28/2007	8:15:00	2.5	10.95	97.1
1/28/2007	8:30:00	2.5	10.97	97.3
1/28/2007	8:45:00	2.6	10.99	97.6
1/28/2007	9:00:00	2.6	11.01	97.9
1/28/2007	9:15:00	2.7	11.02	98.3
1/28/2007	9:30:00	2.9	11.04	98.7
1/28/2007	9:45:00	3.0	11.05	99.1
1/28/2007	10:00:00	3.1	11.05	99.6
1/28/2007	10:15:00	3.3	11.05	100.1
1/28/2007	10:30:00	3.5	11.05	100.6
1/28/2007	10:45:00	3.7	11.04	101.1

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2007	11:00:00	4.0	11.03	101.6
1/28/2007	11:15:00	4.3	11.01	102.2
1/28/2007	11:30:00	4.5	11.00	102.8
1/28/2007	11:45:00	4.8	10.97	103.4
1/28/2007	12:00:00	5.1	10.94	103.9
1/28/2007	12:15:00	5.4	10.90	104.4
1/28/2007	12:30:00	5.7	10.86	104.8
1/28/2007	12:45:00	6.0	10.82	105.2
1/28/2007	13:00:00	6.4	10.77	105.5
1/28/2007	13:15:00	6.6	10.72	105.8
1/28/2007	13:30:00	6.9	10.66	106.0
1/28/2007	13:45:00	7.2	10.61	106.2
1/28/2007	14:00:00	7.4	10.55	106.2
1/28/2007	14:15:00	7.6	10.49	106.1
1/28/2007	14:30:00	7.8	10.43	105.9
1/28/2007	14:45:00	7.9	10.38	105.6
1/28/2007	15:00:00	8.0	10.32	105.4
1/28/2007	15:15:00	8.1	10.27	105.2
1/28/2007	15:30:00	8.2	10.22	105.0
1/28/2007	15:45:00	8.3	10.18	104.8
1/28/2007	16:00:00	8.4	10.13	104.5
1/28/2007	16:15:00	8.5	10.10	104.3
1/28/2007	16:30:00	8.5	10.06	104.0
1/28/2007	16:45:00	8.5	10.03	103.6
1/28/2007	17:00:00	8.4	10.00	103.3
1/28/2007	17:15:00	8.4	9.98	102.9
1/28/2007	17:30:00	8.3	9.96	102.6
1/28/2007	17:45:00	8.3	9.94	102.2
1/28/2007	18:00:00	8.2	9.93	101.8
1/28/2007	18:15:00	8.1	9.91	101.5
1/28/2007	18:30:00	8.0	9.90	101.2
1/28/2007	18:45:00	7.9	9.89	100.9
1/28/2007	19:00:00	7.9	9.89	100.6
1/28/2007	19:15:00	7.8	9.88	100.4
1/28/2007	19:30:00	7.7	9.88	100.2
1/28/2007	19:45:00	7.6	9.88	99.9
1/28/2007	20:00:00	7.5	9.88	99.7
1/28/2007	20:15:00	7.4	9.88	99.5
1/28/2007	20:30:00	7.3	9.89	99.4
1/28/2007	20:45:00	7.2	9.90	99.2
1/28/2007	21:00:00	7.2	9.91	99.1
1/28/2007	21:15:00	7.1	9.92	99.0
1/28/2007	21:30:00	7.0	9.93	98.9
1/28/2007	21:45:00	6.9	9.94	98.7
1/28/2007	22:00:00	6.8	9.96	98.6
1/28/2007	22:15:00	6.7	9.97	98.6
1/28/2007	22:30:00	6.6	9.99	98.5

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2007	22:45:00	6.5	10.01	98.4
1/28/2007	23:00:00	6.4	10.03	98.4
1/28/2007	23:15:00	6.3	10.05	98.4
1/28/2007	23:30:00	6.2	10.07	98.4
1/28/2007	23:45:00	6.1	10.09	98.3
1/29/2007	0:00:00	6.0	10.11	98.3
1/29/2007	0:15:00	5.9	10.14	98.3
1/29/2007	0:30:00	5.8	10.16	98.3
1/29/2007	0:45:00	5.7	10.18	98.2
1/29/2007	1:00:00	5.6	10.21	98.2
1/29/2007	1:15:00	5.5	10.23	98.2
1/29/2007	1:30:00	5.5	10.25	98.2
1/29/2007	1:45:00	5.4	10.28	98.2
1/29/2007	2:00:00	5.3	10.30	98.2
1/29/2007	2:15:00	5.2	10.32	98.1
1/29/2007	2:30:00	5.1	10.35	98.1
1/29/2007	2:45:00	5.0	10.37	98.1
1/29/2007	3:00:00	4.9	10.39	98.1
1/29/2007	3:15:00	4.8	10.41	98.1
1/29/2007	3:30:00	4.7	10.43	98.0
1/29/2007	3:45:00	4.7	10.45	98.0
1/29/2007	4:00:00	4.6	10.46	98.0
1/29/2007	4:15:00	4.5	10.48	98.0
1/29/2007	4:30:00	4.4	10.49	97.9
1/29/2007	4:45:00	4.4	10.51	97.9
1/29/2007	5:00:00	4.3	10.53	97.8
1/29/2007	5:15:00	4.2	10.54	97.8
1/29/2007	5:30:00	4.2	10.55	97.8
1/29/2007	5:45:00	4.1	10.56	97.7
1/29/2007	6:00:00	4.1	10.57	97.7
1/29/2007	6:15:00	4.0	10.59	97.7
1/29/2007	6:30:00	4.0	10.60	97.6
1/29/2007	6:45:00	3.9	10.61	97.6
1/29/2007	7:00:00	3.9	10.61	97.6
1/29/2007	7:15:00	3.8	10.62	97.5
1/29/2007	7:30:00	3.8	10.63	97.6
1/29/2007	7:45:00	3.7	10.65	97.5
1/29/2007	8:00:00	3.7	10.66	97.6
1/29/2007	8:15:00	3.7	10.67	97.7
1/29/2007	8:30:00	3.8	10.68	97.9
1/29/2007	8:45:00	3.8	10.70	98.2
1/29/2007	9:00:00	3.9	10.71	98.5
1/29/2007	9:15:00	4.0	10.72	98.8
1/29/2007	9:30:00	4.1	10.72	99.2
1/29/2007	9:45:00	4.3	10.72	99.5
1/29/2007	10:00:00	4.4	10.72	100.0
1/29/2007	10:15:00	4.7	10.72	100.7

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2007	10:30:00	4.9	10.70	100.9
1/29/2007	10:45:00	5.1	10.68	101.3
1/29/2007	11:00:00	5.2	10.66	101.5
1/29/2007	11:15:00	5.3	10.64	101.5
1/29/2007	11:30:00	5.5	10.62	102.0
1/29/2007	11:45:00	5.8	10.61	102.6
1/29/2007	12:00:00	6.0	10.56	102.6
1/29/2007	12:15:00	6.2	10.54	103.0
1/29/2007	12:30:00	6.5	10.52	103.6
1/29/2007	12:45:00	6.8	10.48	103.8
1/29/2007	13:00:00	7.0	10.45	104.2
1/29/2007	13:15:00	7.2	10.41	104.2
1/29/2007	13:30:00	7.4	10.38	104.6
1/29/2007	13:45:00	7.6	10.34	104.5
1/29/2007	14:00:00	7.8	10.31	104.6
1/29/2007	14:15:00	7.9	10.26	104.5
1/29/2007	14:30:00	8.0	10.23	104.4
1/29/2007	14:45:00	8.0	10.19	104.1
1/29/2007	15:00:00	8.2	10.15	104.3
1/29/2007	15:15:00	8.4	10.11	104.3
1/29/2007	15:30:00	8.7	10.06	104.6
1/29/2007	15:45:00	8.9	10.00	104.3
1/29/2007	16:00:00	9.1	9.95	104.2
1/29/2007	16:15:00	9.2	9.89	103.9
1/29/2007	16:30:00	9.2	9.85	103.5
1/29/2007	16:45:00	9.2	9.81	103.2
1/29/2007	17:00:00	9.2	9.78	103.0
1/29/2007	17:15:00	9.2	9.76	102.5
1/29/2007	17:30:00	9.1	9.74	102.1
1/29/2007	17:45:00	9.0	9.72	101.9
1/29/2007	18:00:00	9.0	9.70	101.6
1/29/2007	18:15:00	9.0	9.68	101.4
1/29/2007	18:30:00	9.0	9.66	101.0
1/29/2007	18:45:00	8.9	9.65	100.7
1/29/2007	19:00:00	8.7	9.64	100.3
1/29/2007	19:15:00	8.6	9.65	100.0
1/29/2007	19:30:00	8.4	9.66	99.7
1/29/2007	19:45:00	8.2	9.68	99.4
1/29/2007	20:00:00	8.0	9.70	99.2
1/29/2007	20:15:00	7.8	9.72	98.9
1/29/2007	20:30:00	7.7	9.74	98.7
1/29/2007	20:45:00	7.5	9.76	98.5
1/29/2007	21:00:00	7.4	9.77	98.4
1/29/2007	21:15:00	7.3	9.78	98.3
1/29/2007	21:30:00	7.2	9.79	98.2
1/29/2007	21:45:00	7.2	9.80	98.1
1/29/2007	22:00:00	7.1	9.82	98.0

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2007	22:15:00	7.0	9.83	97.9
1/29/2007	22:30:00	6.9	9.85	97.8
1/29/2007	22:45:00	6.8	9.87	97.7
1/29/2007	23:00:00	6.6	9.89	97.7
1/29/2007	23:15:00	6.5	9.92	97.6
1/29/2007	23:30:00	6.4	9.94	97.5
1/29/2007	23:45:00	6.3	9.97	97.5
1/30/2007	0:00:00	6.1	10.00	97.5
1/30/2007	0:15:00	6.0	10.03	97.5
1/30/2007	0:30:00	5.9	10.06	97.4
1/30/2007	0:45:00	5.8	10.09	97.4
1/30/2007	1:00:00	5.6	10.12	97.4
1/30/2007	1:15:00	5.5	10.15	97.4
1/30/2007	1:30:00	5.4	10.18	97.3
1/30/2007	1:45:00	5.3	10.21	97.3
1/30/2007	2:00:00	5.1	10.23	97.2
1/30/2007	2:15:00	5.0	10.26	97.2
1/30/2007	2:30:00	4.9	10.29	97.2
1/30/2007	2:45:00	4.8	10.31	97.2
1/30/2007	3:00:00	4.7	10.34	97.1
1/30/2007	3:15:00	4.6	10.36	97.1
1/30/2007	3:30:00	4.5	10.38	97.1
1/30/2007	3:45:00	4.4	10.41	97.0
1/30/2007	4:00:00	4.3	10.43	97.0
1/30/2007	4:15:00	4.3	10.45	97.1
1/30/2007	4:30:00	4.2	10.47	97.1
1/30/2007	4:45:00	4.2	10.48	97.1
1/30/2007	5:00:00	4.1	10.50	97.1
1/30/2007	5:15:00	4.0	10.51	97.1
1/30/2007	5:30:00	4.0	10.53	97.0
1/30/2007	5:45:00	3.9	10.54	97.0
1/30/2007	6:00:00	3.9	10.55	96.9
1/30/2007	6:15:00	3.8	10.56	97.0
1/30/2007	6:30:00	3.8	10.58	97.0
1/30/2007	6:45:00	3.8	10.59	97.0
1/30/2007	7:00:00	3.7	10.60	97.1
1/30/2007	7:15:00	3.7	10.60	97.0
1/30/2007	7:30:00	3.7	10.61	97.1
1/30/2007	7:45:00	3.7	10.62	97.2
1/30/2007	8:00:00	3.7	10.63	97.3
1/30/2007	8:15:00	3.7	10.64	97.5
1/30/2007	8:30:00	3.8	10.65	97.7
1/30/2007	8:45:00	3.8	10.66	97.8
1/30/2007	9:00:00	3.9	10.67	98.1
1/30/2007	9:15:00	3.9	10.68	98.2
1/30/2007	9:30:00	4.0	10.68	98.4
1/30/2007	9:45:00	4.0	10.68	98.5

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2007	10:00:00	4.0	10.68	98.5
1/30/2007	10:15:00	4.1	10.68	98.7
1/30/2007	10:30:00	4.1	10.68	98.8
1/30/2007	10:45:00	4.2	10.67	98.9
1/30/2007	11:00:00	4.3	10.66	99.0
1/30/2007	11:15:00	4.3	10.66	99.2
1/30/2007	11:30:00	4.5	10.66	99.6
1/30/2007	11:45:00	4.7	10.64	100.0
1/30/2007	12:00:00	4.8	10.63	100.2
1/30/2007	12:15:00	5.0	10.62	100.5
1/30/2007	12:30:00	5.2	10.60	100.8
1/30/2007	12:45:00	5.3	10.58	100.9
1/30/2007	13:00:00	5.4	10.57	101.1
1/30/2007	13:15:00	5.5	10.55	101.1
1/30/2007	13:30:00	5.6	10.53	101.1
1/30/2007	13:45:00	5.6	10.50	101.1
1/30/2007	14:00:00	5.7	10.48	101.1
1/30/2007	14:15:00	5.8	10.46	101.1
1/30/2007	14:30:00	5.9	10.44	101.1
1/30/2007	14:45:00	6.0	10.42	101.2
1/30/2007	15:00:00	6.0	10.40	101.2
1/30/2007	15:15:00	6.1	10.39	101.1
1/30/2007	15:30:00	6.1	10.37	101.1
1/30/2007	15:45:00	6.1	10.36	101.0
1/30/2007	16:00:00	6.1	10.34	100.8
1/30/2007	16:15:00	6.1	10.33	100.7
1/30/2007	16:30:00	6.2	10.32	100.7
1/30/2007	16:45:00	6.2	10.31	100.6
1/30/2007	17:00:00	6.2	10.29	100.5
1/30/2007	17:15:00	6.2	10.28	100.5
1/30/2007	17:30:00	6.2	10.27	100.3
1/30/2007	17:45:00	6.2	10.25	100.2
1/30/2007	18:00:00	6.2	10.25	100.1
1/30/2007	18:15:00	6.2	10.24	99.9
1/30/2007	18:30:00	6.2	10.23	99.8
1/30/2007	18:45:00	6.1	10.23	99.7
1/30/2007	19:00:00	6.1	10.23	99.6
1/30/2007	19:15:00	6.1	10.22	99.5
1/30/2007	19:30:00	6.1	10.22	99.4
1/30/2007	19:45:00	6.0	10.21	99.3
1/30/2007	20:00:00	6.0	10.21	99.3
1/30/2007	20:15:00	6.0	10.21	99.2
1/30/2007	20:30:00	6.0	10.20	99.2
1/30/2007	20:45:00	6.0	10.20	99.2
1/30/2007	21:00:00	6.0	10.20	99.2
1/30/2007	21:15:00	6.0	10.20	99.1
1/30/2007	21:30:00	6.0	10.20	99.1

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2007	21:45:00	6.0	10.20	99.0
1/30/2007	22:00:00	6.0	10.20	99.0
1/30/2007	22:15:00	5.9	10.21	99.0
1/30/2007	22:30:00	5.9	10.21	99.0
1/30/2007	22:45:00	5.9	10.22	99.0
1/30/2007	23:00:00	5.9	10.22	99.0
1/30/2007	23:15:00	5.8	10.23	99.0
1/30/2007	23:30:00	5.8	10.24	99.0
1/30/2007	23:45:00	5.8	10.25	98.9
1/31/2007	0:00:00	5.7	10.26	98.9
1/31/2007	0:15:00	5.7	10.27	98.9
1/31/2007	0:30:00	5.6	10.28	98.9
1/31/2007	0:45:00	5.6	10.29	98.9
1/31/2007	1:00:00	5.5	10.30	98.8
1/31/2007	1:15:00	5.5	10.31	98.8
1/31/2007	1:30:00	5.5	10.31	98.8
1/31/2007	1:45:00	5.4	10.32	98.8
1/31/2007	2:00:00	5.4	10.33	98.8
1/31/2007	2:15:00	5.4	10.34	98.9
1/31/2007	2:30:00	5.4	10.34	98.8
1/31/2007	2:45:00	5.3	10.35	98.8
1/31/2007	3:00:00	5.3	10.35	98.7
1/31/2007	3:15:00	5.2	10.36	98.6
1/31/2007	3:30:00	5.2	10.37	98.5
1/31/2007	3:45:00	5.1	10.37	98.4
1/31/2007	4:00:00	5.0	10.38	98.3
1/31/2007	4:15:00	4.9	10.39	98.2
1/31/2007	4:30:00	4.9	10.39	98.1
1/31/2007	4:45:00	4.9	10.40	98.2
1/31/2007	5:00:00	4.9	10.40	98.2
1/31/2007	5:15:00	4.9	10.40	98.1
1/31/2007	5:30:00	4.8	10.40	98.1
1/31/2007	5:45:00	4.8	10.40	98.0
1/31/2007	6:00:00	4.8	10.41	98.0
1/31/2007	6:15:00	4.8	10.41	98.0
1/31/2007	6:30:00	4.8	10.41	97.9
1/31/2007	6:45:00	4.7	10.41	97.8
1/31/2007	7:00:00	4.7	10.41	97.7
1/31/2007	7:15:00	4.7	10.41	97.7
1/31/2007	7:30:00	4.6	10.41	97.6
1/31/2007	7:45:00	4.6	10.41	97.6
1/31/2007	8:00:00	4.6	10.42	97.6
1/31/2007	8:15:00	4.6	10.42	97.7
1/31/2007	8:30:00	4.6	10.43	97.8
1/31/2007	8:45:00	4.7	10.44	98.1
1/31/2007	9:00:00	4.7	10.45	98.3
1/31/2007	9:15:00	4.8	10.45	98.5

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2007	9:30:00	4.9	10.46	98.8
1/31/2007	9:45:00	5.0	10.46	99.2
1/31/2007	10:00:00	5.2	10.47	99.5
1/31/2007	10:15:00	5.3	10.47	99.9
1/31/2007	10:30:00	5.5	10.46	100.3
1/31/2007	10:45:00	5.8	10.46	101.1
1/31/2007	11:00:00	6.0	10.43	101.3
1/31/2007	11:15:00	6.3	10.41	101.8
1/31/2007	11:30:00	6.5	10.38	102.1
1/31/2007	11:45:00	6.7	10.35	102.3
1/31/2007	12:00:00	6.7	10.32	102.1
1/31/2007	12:15:00	6.8	10.30	102.0
1/31/2007	12:30:00	6.8	10.27	101.7
1/31/2007	12:45:00	6.8	10.24	101.6
1/31/2007	13:00:00	7.0	10.21	101.7
1/31/2007	13:15:00	7.0	10.18	101.5
1/31/2007	13:30:00	7.1	10.16	101.4
1/31/2007	13:45:00	7.2	10.13	101.5
1/31/2007	14:00:00	7.4	10.09	101.4
1/31/2007	14:15:00	7.4	10.06	101.3
1/31/2007	14:30:00	7.6	10.02	101.3
1/31/2007	14:45:00	7.7	9.99	101.3
1/31/2007	15:00:00	7.8	9.96	101.2
1/31/2007	15:15:00	7.9	9.93	101.1
1/31/2007	15:30:00	7.9	9.90	100.9
1/31/2007	15:45:00	8.0	9.88	100.8
1/31/2007	16:00:00	8.0	9.86	100.6
1/31/2007	16:15:00	8.0	9.83	100.4
1/31/2007	16:30:00	8.0	9.82	100.2
1/31/2007	16:45:00	8.0	9.80	100.1
1/31/2007	17:00:00	8.0	9.78	99.9
1/31/2007	17:15:00	8.0	9.76	99.8
1/31/2007	17:30:00	8.0	9.74	99.6
1/31/2007	17:45:00	8.0	9.73	99.4
1/31/2007	18:00:00	8.0	9.73	99.2
1/31/2007	18:15:00	7.9	9.73	99.1
1/31/2007	18:30:00	7.8	9.73	99.0
1/31/2007	18:45:00	7.8	9.73	98.8
1/31/2007	19:00:00	7.6	9.74	98.6
1/31/2007	19:15:00	7.5	9.75	98.4
1/31/2007	19:30:00	7.4	9.77	98.3
1/31/2007	19:45:00	7.2	9.79	98.1
1/31/2007	20:00:00	7.1	9.80	97.9
1/31/2007	20:15:00	7.0	9.82	97.8
1/31/2007	20:30:00	6.9	9.83	97.6
1/31/2007	20:45:00	6.8	9.84	97.4
1/31/2007	21:00:00	6.7	9.85	97.3

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2007	21:15:00	6.6	9.85	97.2
1/31/2007	21:30:00	6.6	9.85	97.1
1/31/2007	21:45:00	6.5	9.86	97.0
1/31/2007	22:00:00	6.4	9.86	96.9
1/31/2007	22:15:00	6.4	9.87	96.8
1/31/2007	22:30:00	6.3	9.88	96.8
1/31/2007	22:45:00	6.3	9.89	96.8
1/31/2007	23:00:00	6.2	9.91	96.8
1/31/2007	23:15:00	6.2	9.92	96.8
1/31/2007	23:30:00	6.1	9.94	96.7
1/31/2007	23:45:00	6.0	9.96	96.7
2/1/2007	0:00:00	5.9	9.98	96.7
2/1/2007	0:15:00	5.8	10.00	96.7
2/1/2007	0:30:00	5.7	10.02	96.7
2/1/2007	0:45:00	5.6	10.04	96.7
2/1/2007	1:00:00	5.6	10.06	96.7
2/1/2007	1:15:00	5.5	10.08	96.6
2/1/2007	1:30:00	5.4	10.10	96.6
2/1/2007	1:45:00	5.3	10.11	96.6
2/1/2007	2:00:00	5.3	10.13	96.5
2/1/2007	2:15:00	5.2	10.14	96.4
2/1/2007	2:30:00	5.1	10.16	96.4
2/1/2007	2:45:00	5.0	10.17	96.4
2/1/2007	3:00:00	4.9	10.19	96.3
2/1/2007	3:15:00	4.9	10.21	96.3
2/1/2007	3:30:00	4.8	10.22	96.2
2/1/2007	3:45:00	4.7	10.24	96.1
2/1/2007	4:00:00	4.6	10.26	96.1
2/1/2007	4:15:00	4.5	10.28	96.0
2/1/2007	4:30:00	4.4	10.29	96.0
2/1/2007	4:45:00	4.4	10.31	96.0
2/1/2007	5:00:00	4.3	10.32	96.0
2/1/2007	5:15:00	4.2	10.34	96.0
2/1/2007	5:30:00	4.2	10.35	95.9
2/1/2007	5:45:00	4.1	10.37	96.0
2/1/2007	6:00:00	4.1	10.39	96.0
2/1/2007	6:15:00	4.0	10.41	96.1
2/1/2007	6:30:00	4.0	10.43	96.2
2/1/2007	6:45:00	4.0	10.44	96.3
2/1/2007	7:00:00	4.0	10.45	96.4
2/1/2007	7:15:00	4.0	10.46	96.4
2/1/2007	7:30:00	4.0	10.48	96.5
2/1/2007	7:45:00	4.0	10.49	96.6
2/1/2007	8:00:00	3.9	10.50	96.7
2/1/2007	8:15:00	4.0	10.52	96.9
2/1/2007	8:30:00	4.0	10.53	97.1
2/1/2007	8:45:00	4.1	10.54	97.4

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/1/2007	9:00:00	4.2	10.55	97.7
2/1/2007	9:15:00	4.3	10.55	98.0
2/1/2007	9:30:00	4.3	10.55	98.1
2/1/2007	9:45:00	4.4	10.55	98.4
2/1/2007	10:00:00	4.5	10.55	98.6
2/1/2007	10:15:00	4.6	10.54	98.8
2/1/2007	10:30:00	4.7	10.53	99.0
2/1/2007	10:45:00	4.7	10.53	99.0
2/1/2007	11:00:00	4.8	10.52	99.1
2/1/2007	11:15:00	4.9	10.51	99.2
2/1/2007	11:30:00	5.0	10.50	99.4
2/1/2007	11:45:00	5.1	10.50	99.7
2/1/2007	12:00:00	5.3	10.48	100.0
2/1/2007	12:15:00	5.4	10.47	100.1
2/1/2007	12:30:00	5.4	10.45	100.1
2/1/2007	12:45:00	5.5	10.44	100.0
2/1/2007	13:00:00	5.5	10.43	100.0
2/1/2007	13:15:00	5.5	10.41	99.9
2/1/2007	13:30:00	5.5	10.40	99.8
2/1/2007	13:45:00	5.5	10.39	99.8
2/1/2007	14:00:00	5.5	10.38	99.6
2/1/2007	14:15:00	5.6	10.37	99.6
2/1/2007	14:30:00	5.7	10.36	99.7
2/1/2007	14:45:00	5.9	10.36	100.4
2/1/2007	15:00:00	6.0	10.31	100.2
2/1/2007	15:15:00	6.0	10.31	100.1
2/1/2007	15:30:00	6.2	10.30	100.5
2/1/2007	15:45:00	6.2	10.28	100.5
2/1/2007	16:00:00	6.3	10.26	100.5
2/1/2007	16:15:00	6.3	10.25	100.2
2/1/2007	16:30:00	6.2	10.24	99.9
2/1/2007	16:45:00	6.1	10.24	99.8
2/1/2007	17:00:00	6.0	10.23	99.5
2/1/2007	17:15:00	5.9	10.23	99.2
2/1/2007	17:30:00	5.8	10.23	98.9
2/1/2007	17:45:00	5.7	10.23	98.6
2/1/2007	18:00:00	5.6	10.23	98.4
2/1/2007	18:15:00	5.5	10.23	98.2
2/1/2007	18:30:00	5.5	10.23	98.1
2/1/2007	18:45:00	5.4	10.23	98.0
2/1/2007	19:00:00	5.4	10.23	97.9
2/1/2007	19:15:00	5.4	10.24	97.9
2/1/2007	19:30:00	5.4	10.24	97.9
2/1/2007	19:45:00	5.3	10.25	97.8
2/1/2007	20:00:00	5.2	10.26	97.7
2/1/2007	20:15:00	5.2	10.27	97.7
2/1/2007	20:30:00	5.1	10.28	97.6

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/1/2007	20:45:00	5.0	10.30	97.5
2/1/2007	21:00:00	5.0	10.31	97.5
2/1/2007	21:15:00	4.9	10.32	97.4
2/1/2007	21:30:00	4.8	10.34	97.4
2/1/2007	21:45:00	4.8	10.35	97.4
2/1/2007	22:00:00	4.7	10.36	97.3
2/1/2007	22:15:00	4.6	10.38	97.2
2/1/2007	22:30:00	4.5	10.40	97.3
2/1/2007	22:45:00	4.5	10.41	97.3
2/1/2007	23:00:00	4.4	10.43	97.2
2/1/2007	23:15:00	4.4	10.44	97.2
2/1/2007	23:30:00	4.3	10.45	97.2
2/1/2007	23:45:00	4.3	10.46	97.2
2/2/2007	0:00:00	4.2	10.48	97.2
2/2/2007	0:15:00	4.2	10.49	97.1
2/2/2007	0:30:00	4.1	10.50	97.1
2/2/2007	0:45:00	4.0	10.51	97.0
2/2/2007	1:00:00	4.0	10.52	96.9
2/2/2007	1:15:00	3.9	10.54	96.9
2/2/2007	1:30:00	3.8	10.56	96.9
2/2/2007	1:45:00	3.7	10.57	96.8
2/2/2007	2:00:00	3.6	10.58	96.6
2/2/2007	2:15:00	3.5	10.59	96.4
2/2/2007	2:30:00	3.4	10.60	96.3
2/2/2007	2:45:00	3.3	10.62	96.1
2/2/2007	3:00:00	3.2	10.64	96.1
2/2/2007	3:15:00	3.1	10.66	96.1
2/2/2007	3:30:00	3.1	10.68	96.0
2/2/2007	3:45:00	3.0	10.69	96.1
2/2/2007	4:00:00	3.0	10.71	96.1
2/2/2007	4:15:00	2.9	10.73	96.1
2/2/2007	4:30:00	2.8	10.75	96.1
2/2/2007	4:45:00	2.8	10.77	96.1
2/2/2007	5:00:00	2.7	10.79	96.1
2/2/2007	5:15:00	2.6	10.82	96.1
2/2/2007	5:30:00	2.5	10.83	96.0
2/2/2007	5:45:00	2.4	10.85	95.9
2/2/2007	6:00:00	2.3	10.87	95.9
2/2/2007	6:15:00	2.2	10.89	95.8
2/2/2007	6:30:00	2.2	10.92	95.8
2/2/2007	6:45:00	2.1	10.93	95.8
2/2/2007	7:00:00	2.0	10.95	95.7
2/2/2007	7:15:00	1.9	10.97	95.6
2/2/2007	7:30:00	1.9	10.98	95.7
2/2/2007	7:45:00	1.8	11.00	95.7
2/2/2007	8:00:00	1.8	11.02	95.8
2/2/2007	8:15:00	1.8	11.03	96.0

Table 5.26. Water quality measurements at Site 6, Rio Grande near San Antonio New Mexico, during January 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

2/2/2007	8:30:00	1.8	11.05	96.2
2/2/2007	8:45:00	1.9	11.07	96.5
2/2/2007	9:00:00	1.9	11.09	96.8

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**Site6_1_26-2007**
Setup	**Date**	**(MMDDYY)**	**:**	**1/26/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**12:07:00**
Starting	**Date**	**(MMDDYY)**	**:**	**1/26/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**13:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**2/5/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**9:00:00**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

***Meter was not programed to collect dissolved oxygen data, only dissolved oxygen saturation. Used DO saturation, barometric pressure - 633 mm Hg, and temperature with DO Tables to calculate DO.

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	Calculated DO (mg/L)	DO Saturation (%)
1/26/2007	13:00:00	5.5	460	8.17	11.01	107.7
1/26/2007	13:15:00	5.7	0	8.18	10.92	107.4
1/26/2007	13:30:00	5.8	3	8.19	10.94	107.8
1/26/2007	13:45:00	5.8	0	8.19	10.81	106.6
1/26/2007	14:00:00	5.8	0	8.20	10.86	107.1
1/26/2007	14:15:00	5.9	0	8.20	10.84	107.0
1/26/2007	14:30:00	5.9	28	8.20	10.77	106.4
1/26/2007	14:45:00	5.9	0	8.21	10.72	106.0
1/26/2007	15:00:00	6.0	0	8.20	10.74	106.3
1/26/2007	15:15:00	6.1	0	8.21	10.72	106.3
1/26/2007	15:30:00	6.1	3	8.21	10.72	106.4
1/26/2007	15:45:00	6.2	6	8.21	10.70	106.3
1/26/2007	16:00:00	6.2	2	8.21	10.67	106.1
1/26/2007	16:15:00	6.3	1	8.22	10.63	105.8
1/26/2007	16:30:00	6.3	19	8.22	10.56	105.2
1/26/2007	16:45:00	6.3	2	8.22	10.56	105.2
1/26/2007	17:00:00	6.3	2	8.22	10.55	105.1
1/26/2007	17:15:00	6.3	1	8.22	10.58	105.4
1/26/2007	17:30:00	6.3	5	8.22	10.49	104.5
1/26/2007	17:45:00	6.2	2	8.22	10.57	105.2
1/26/2007	18:00:00	6.2	2	8.22	10.52	104.6
1/26/2007	18:15:00	6.2	1	8.23	10.43	103.6
1/26/2007	18:30:00	6.1	2	8.23	10.50	104.1
1/26/2007	18:45:00	6.0	3	8.23	10.46	103.6
1/26/2007	19:00:00	5.9	2	8.23	10.49	103.7
1/26/2007	19:15:00	5.8	3	8.23	10.51	103.6
1/26/2007	19:30:00	5.7	16	8.23	10.47	103.0
1/26/2007	19:45:00	5.6	2	8.23	10.46	102.7
1/26/2007	20:00:00	5.5	51	8.23	10.50	102.9

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/26/2007	20:15:00	5.4	3	8.23	10.56	103.3
1/26/2007	20:30:00	5.4	3	8.23	10.58	103.3
1/26/2007	20:45:00	5.3	2	8.23	10.50	102.4
1/26/2007	21:00:00	5.2	2	8.23	10.60	103.2
1/26/2007	21:15:00	5.1	13	8.23	10.58	102.8
1/26/2007	21:30:00	5.0	3	8.23	10.67	103.5
1/26/2007	21:45:00	4.9	20	8.23	10.69	103.4
1/26/2007	22:00:00	4.8	4	8.23	10.77	104.0
1/26/2007	22:15:00	4.7	3	8.23	10.78	103.9
1/26/2007	22:30:00	4.6	2	8.23	10.65	102.4
1/26/2007	22:45:00	4.5	13	8.23	10.76	103.3
1/26/2007	23:00:00	4.4	7	8.23	10.77	103.2
1/26/2007	23:15:00	4.3	32	8.23	10.74	102.7
1/26/2007	23:30:00	4.3	3	8.23	10.86	103.7
1/26/2007	23:45:00	4.2	5	8.23	10.92	104.1
1/27/2007	0:00:00	4.1	49	8.22	10.85	103.2
1/27/2007	0:15:00	4.1	3	8.22	10.83	102.9
1/27/2007	0:30:00	4.0	4	8.22	10.91	103.5
1/27/2007	0:45:00	3.9	14	8.22	10.96	103.9
1/27/2007	1:00:00	3.9	2	8.22	10.95	103.7
1/27/2007	1:15:00	3.8	2	8.22	10.98	103.9
1/27/2007	1:30:00	3.8	1	8.23	10.96	103.6
1/27/2007	1:45:00	3.7	3	8.23	10.99	103.8
1/27/2007	2:00:00	3.7	22	8.23	11.06	104.3
1/27/2007	2:15:00	3.6	4	8.23	11.04	104.0
1/27/2007	2:30:00	3.6	2	8.22	11.04	103.9
1/27/2007	2:45:00	3.5	7	8.23	11.05	103.9
1/27/2007	3:00:00	3.5	5	8.23	11.06	103.9
1/27/2007	3:15:00	3.5	2	8.23	11.10	104.2
1/27/2007	3:30:00	3.4	90	8.23	11.12	104.4
1/27/2007	3:45:00	3.4	27	8.23	11.05	103.6
1/27/2007	4:00:00	3.4	226	8.23	10.98	102.9
1/27/2007	4:15:00	3.3	5	8.23	11.11	104.1
1/27/2007	4:30:00	3.3	328	8.23	11.01	103.1
1/27/2007	4:45:00	3.3	195	8.23	11.03	103.3
1/27/2007	5:00:00	3.3	21	8.23	11.17	104.5
1/27/2007	5:15:00	3.3	377	8.23	11.10	103.8
1/27/2007	5:30:00	3.3	333	8.23	11.11	103.9
1/27/2007	5:45:00	3.2	76	8.23	11.11	103.8
1/27/2007	6:00:00	3.2	179	8.23	11.06	103.4
1/27/2007	6:15:00	3.2	19	8.23	11.12	103.9
1/27/2007	6:30:00	3.2	34	8.24	11.10	103.6
1/27/2007	6:45:00	3.2	373	8.23	11.11	103.7
1/27/2007	7:00:00	3.2	145	8.23	11.09	103.5
1/27/2007	7:15:00	3.1	316	8.24	11.02	102.8

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/27/2007	7:30:00	3.1	257	8.24	11.08	103.3
1/27/2007	7:45:00	3.1	343	8.24	11.17	104.1
1/27/2007	8:00:00	3.1	327	8.23	11.17	104.1
1/27/2007	8:15:00	3.1	353	8.24	11.07	103.2
1/27/2007	8:30:00	3.1	282	8.23	11.18	104.2
1/27/2007	8:45:00	3.1	327	8.24	11.16	104.1
1/27/2007	9:00:00	3.1	440	8.24	11.13	103.8
1/27/2007	9:15:00	3.1	351	8.24	11.17	104.2
1/27/2007	9:30:00	3.2	449	8.24	11.19	104.4
1/27/2007	9:45:00	3.2	456	8.24	11.18	104.4
1/27/2007	10:00:00	3.2	452	8.24	11.18	104.5
1/27/2007	10:15:00	3.3	361	8.24	11.20	104.7
1/27/2007	10:30:00	3.3	434	8.24	11.20	104.9
1/27/2007	10:45:00	3.4	387	8.24	11.22	105.2
1/27/2007	11:00:00	3.5	435	8.24	11.18	105.0
1/27/2007	11:15:00	3.6	397	8.24	11.19	105.4
1/27/2007	11:30:00	3.7	366	8.24	11.16	105.4
1/27/2007	11:45:00	3.9	398	8.24	11.13	105.5
1/27/2007	12:00:00	4.1	451	8.24	11.16	106.3
1/27/2007	12:15:00	4.4	361	8.24	11.19	107.2
1/27/2007	12:30:00	4.6	443	8.24	11.09	106.6
1/27/2007	12:45:00	4.8	446	8.24	11.09	107.1
1/27/2007	13:00:00	5.0	449	8.24	11.07	107.2
1/27/2007	13:15:00	5.2	422	8.24	11.04	107.4
1/27/2007	13:30:00	5.5	450	8.24	11.04	108.0
1/27/2007	13:45:00	5.6	454	8.29	10.87	106.8
1/27/2007	14:00:00	5.8	452	8.29	10.88	107.2
1/27/2007	14:15:00	6.0	451	8.29	10.90	108.0
1/27/2007	14:30:00	6.2	453	8.29	10.79	107.3
1/27/2007	14:45:00	6.3	452	8.29	10.78	107.4
1/27/2007	15:00:00	6.4	451	8.29	10.70	106.9
1/27/2007	15:15:00	6.5	452	8.29	10.69	107.0
1/27/2007	15:30:00	6.6	451	8.28	10.67	107.0
1/27/2007	15:45:00	6.6	453	8.29	10.52	105.5
1/27/2007	16:00:00	6.6	452	8.30	10.62	106.6
1/27/2007	16:15:00	6.7	450	8.28	10.56	106.0
1/27/2007	16:30:00	6.7	449	8.29	10.45	104.9
1/27/2007	16:45:00	6.6	450	8.28	10.31	103.5
1/27/2007	17:00:00	6.6	449	8.29	10.53	105.6
1/27/2007	17:15:00	6.6	445	8.29	10.63	106.5
1/27/2007	17:30:00	6.5	445	8.29	10.52	105.4
1/27/2007	17:45:00	6.5	445	8.29	10.59	106.0
1/27/2007	18:00:00	6.5	443	8.29	10.33	103.3
1/27/2007	18:15:00	6.4	443	8.30	10.56	105.5
1/27/2007	18:30:00	6.4	439	8.32	10.50	104.8

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/27/2007	18:45:00	6.3	432	8.29	10.46	104.3
1/27/2007	19:00:00	6.3	436	8.30	10.52	104.7
1/27/2007	19:15:00	6.2	434	8.30	10.55	104.9
1/27/2007	19:30:00	6.1	439	8.29	10.55	104.7
1/27/2007	19:45:00	6.1	436	8.30	10.47	103.8
1/27/2007	20:00:00	6.0	224	8.31	8.36	82.7
1/27/2007	20:15:00	5.9	186	8.28	9.01	89.0
1/27/2007	20:30:00	5.8	179	8.28	9.36	92.3
1/27/2007	20:45:00	5.8	180	8.27	9.27	91.3
1/27/2007	21:00:00	5.7	177	8.26	8.93	87.8
1/27/2007	21:15:00	5.6	177	8.26	8.35	81.9
1/27/2007	21:30:00	5.5	195	8.26	8.78	86.0
1/27/2007	21:45:00	5.4	178	8.26	8.28	80.9
1/27/2007	22:00:00	5.3	170	8.27	8.27	80.7
1/27/2007	22:15:00	5.2	176	8.27	8.43	82.1
1/27/2007	22:30:00	5.1	176	8.27	8.32	80.8
1/27/2007	22:45:00	5.0	172	8.26	8.24	79.9
1/27/2007	23:00:00	5.0	172	8.26	7.95	77.0
1/27/2007	23:15:00	4.9	172	8.26	8.03	77.6
1/27/2007	23:30:00	4.8	171	8.26	7.74	74.7
1/27/2007	23:45:00	4.7	171	8.26	8.13	78.3
1/28/2007	0:00:00	4.6	171	8.26	7.69	73.9
1/28/2007	0:15:00	4.5	171	8.26	7.58	72.7
1/28/2007	0:30:00	4.4	171	8.25	7.62	72.9
1/28/2007	0:45:00	4.3	171	8.25	7.44	71.1
1/28/2007	1:00:00	4.2	172	8.25	7.92	75.5
1/28/2007	1:15:00	4.1	171	8.25	7.74	73.6
1/28/2007	1:30:00	4.0	172	8.25	7.56	71.8
1/28/2007	1:45:00	3.9	172	8.25	7.82	74.1
1/28/2007	2:00:00	3.8	172	8.25	7.62	72.0
1/28/2007	2:15:00	3.7	172	8.25	7.50	70.8
1/28/2007	2:30:00	3.6	172	8.24	7.26	68.4
1/28/2007	2:45:00	3.5	172	8.25	7.33	68.9
1/28/2007	3:00:00	3.4	172	8.25	7.59	71.2
1/28/2007	3:15:00	3.3	173	8.27	8.68	81.2
1/28/2007	3:30:00	3.2	173	8.27	8.72	81.5
1/28/2007	3:45:00	3.1	173	8.26	8.91	83.1
1/28/2007	4:00:00	3.1	173	8.25	8.89	82.8
1/28/2007	4:15:00	3.0	173	8.24	8.87	82.5
1/28/2007	4:30:00	2.9	194	8.28	10.81	100.3
1/28/2007	4:45:00	2.8	189	8.28	9.85	91.3
1/28/2007	5:00:00	2.7	371	8.27	11.23	103.9
1/28/2007	5:15:00	2.6	312	8.27	9.55	88.2
1/28/2007	5:30:00	2.6	295	8.27	9.06	83.6
1/28/2007	5:45:00	2.5	251	8.26	9.25	85.2

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/28/2007	6:00:00	2.5	277	8.26	9.67	89.0
1/28/2007	6:15:00	2.4	250	8.26	9.64	88.6
1/28/2007	6:30:00	2.3	237	8.26	8.93	82.0
1/28/2007	6:45:00	2.3	456	8.28	9.46	86.7
1/28/2007	7:00:00	2.2	454	8.28	9.56	87.6
1/28/2007	7:15:00	2.2	450	8.28	8.93	81.7
1/28/2007	7:30:00	2.1	411	8.27	9.06	82.8
1/28/2007	7:45:00	2.1	314	8.26	9.31	85.0
1/28/2007	8:00:00	2.1	438	8.27	11.20	102.3
1/28/2007	8:15:00	2.1	230	8.27	10.42	95.1
1/28/2007	8:30:00	2.1	241	8.27	10.10	92.2
1/28/2007	8:45:00	2.1	205	8.26	9.21	84.2
1/28/2007	9:00:00	2.2	204	8.26	9.71	88.9
1/28/2007	9:15:00	2.3	240	8.26	10.41	95.4
1/28/2007	9:30:00	2.4	231	8.26	9.95	91.4
1/28/2007	9:45:00	2.5	204	8.26	9.43	86.8
1/28/2007	10:00:00	2.7	196	8.24	9.06	83.7
1/28/2007	10:15:00	2.8	196	8.23	9.71	90.0
1/28/2007	10:30:00	3.0	196	8.24	9.44	87.9
1/28/2007	10:45:00	3.3	195	8.25	9.42	88.1
1/28/2007	11:00:00	3.5	195	8.25	9.22	86.6
1/28/2007	11:15:00	3.8	195	8.25	9.15	86.5
1/28/2007	11:30:00	4.1	195	8.28	8.86	84.2
1/28/2007	11:45:00	4.3	195	8.26	8.04	76.8
1/28/2007	12:00:00	4.5	195	8.25	7.88	75.6
1/28/2007	12:15:00	4.8	195	8.23	7.79	75.2
1/28/2007	12:30:00	5.1	195	8.24	7.22	70.1
1/28/2007	12:45:00	5.5	194	8.22	8.61	84.4
1/28/2007	13:00:00	5.9	375	8.28	11.19	110.6
1/28/2007	13:15:00	6.2	396	8.28	11.01	109.5
1/28/2007	13:30:00	6.5	394	8.29	10.71	107.2
1/28/2007	13:45:00	6.8	303	8.29	10.36	104.3
1/28/2007	14:00:00	7.0	228	8.30	9.83	99.5
1/28/2007	14:15:00	7.2	214	8.28	9.53	96.8
1/28/2007	14:30:00	7.3	213	8.26	9.50	96.7
1/28/2007	14:45:00	7.4	205	8.28	8.76	89.5
1/28/2007	15:00:00	7.6	202	8.28	7.26	74.3
1/28/2007	15:15:00	7.7	202	8.26	6.82	70.0
1/28/2007	15:30:00	7.8	221	8.28	7.90	81.4
1/28/2007	15:45:00	7.9	217	8.28	7.92	81.7
1/28/2007	16:00:00	8.0	204	8.30	6.75	69.8
1/28/2007	16:15:00	8.0	202	8.28	5.97	61.8
1/28/2007	16:30:00	8.1	202	8.29	5.50	56.9
1/28/2007	16:45:00	8.0	203	8.28	4.71	48.8
1/28/2007	17:00:00	8.0	226	8.29	4.28	44.3

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/28/2007	17:15:00	8.0	221	8.27	3.76	38.9
1/28/2007	17:30:00	7.9	207	8.29	4.07	42.0
1/28/2007	17:45:00	7.9	198	8.28	3.71	38.2
1/28/2007	18:00:00	7.8	194	8.28	3.49	35.9
1/28/2007	18:15:00	7.7	192	8.28	3.75	38.5
1/28/2007	18:30:00	7.6	191	8.26	3.33	34.1
1/28/2007	18:45:00	7.5	191	8.25	3.24	33.2
1/28/2007	19:00:00	7.4	190	8.25	3.04	31.0
1/28/2007	19:15:00	7.4	190	8.26	2.94	30.0
1/28/2007	19:30:00	7.3	189	8.23	3.05	31.1
1/28/2007	19:45:00	7.2	190	8.22	2.76	28.0
1/28/2007	20:00:00	7.1	189	8.21	2.77	28.1
1/28/2007	20:15:00	7.0	188	8.20	2.74	27.7
1/28/2007	20:30:00	6.9	188	8.19	2.88	29.1
1/28/2007	20:45:00	6.8	189	8.19	2.78	28.0
1/28/2007	21:00:00	6.7	187	8.17	2.65	26.6
1/28/2007	21:15:00	6.6	186	8.18	2.41	24.2
1/28/2007	21:30:00	6.6	186	8.16	2.42	24.2
1/28/2007	21:45:00	6.5	186	8.15	2.34	23.4
1/28/2007	22:00:00	6.4	186	8.16	2.35	23.5
1/28/2007	22:15:00	6.3	186	8.17	2.36	23.5
1/28/2007	22:30:00	6.3	187	8.15	2.54	25.3
1/28/2007	22:45:00	6.1	190	8.16	2.64	26.2
1/28/2007	23:00:00	6.0	190	8.16	2.65	26.2
1/28/2007	23:15:00	5.9	190	8.15	2.70	26.7
1/28/2007	23:30:00	6.0	190	8.16	2.77	27.4
1/28/2007	23:45:00	5.8	190	8.16	2.75	27.1
1/29/2007	0:00:00	5.6	189	8.16	2.49	24.4
1/29/2007	0:15:00	5.5	188	8.14	2.42	23.7
1/29/2007	0:30:00	5.4	187	8.13	3.94	38.5
1/29/2007	0:45:00	5.3	187	8.14	4.34	42.3
1/29/2007	1:00:00	5.2	186	8.13	4.90	47.7
1/29/2007	1:15:00	5.1	183	8.17	4.27	41.5
1/29/2007	1:30:00	5.0	183	8.15	3.56	34.5
1/29/2007	1:45:00	4.9	183	8.14	3.69	35.7
1/29/2007	2:00:00	4.8	183	8.13	4.26	41.2
1/29/2007	2:15:00	4.8	183	8.13	4.21	40.6
1/29/2007	2:30:00	4.7	183	8.16	4.19	40.4
1/29/2007	2:45:00	4.8	183	8.18	3.80	36.6
1/29/2007	3:00:00	4.8	183	8.19	3.53	34.1
1/29/2007	3:15:00	4.8	186	8.19	3.27	31.6
1/29/2007	3:30:00	4.8	188	8.19	3.15	30.4
1/29/2007	3:45:00	4.8	189	8.19	3.00	29.0
1/29/2007	4:00:00	4.8	189	8.19	2.85	27.5
1/29/2007	4:15:00	4.8	189	8.19	2.67	25.8

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/29/2007	4:30:00	4.8	188	8.18	2.58	24.9
1/29/2007	4:45:00	4.8	188	8.17	2.44	23.6
1/29/2007	5:00:00	4.8	191	8.17	2.33	22.5
1/29/2007	5:15:00	4.8	191	8.17	2.31	22.3
1/29/2007	5:30:00	4.8	191	8.16	2.19	21.1
1/29/2007	5:45:00	4.8	190	8.16	2.10	20.3
1/29/2007	6:00:00	4.8	190	8.15	2.02	19.5
1/29/2007	6:15:00	4.8	190	8.15	1.99	19.2
1/29/2007	6:30:00	4.8	190	8.14	1.89	18.2
1/29/2007	6:45:00	4.8	190	8.13	1.86	18.0
1/29/2007	7:00:00	4.8	190	8.13	1.78	17.2
1/29/2007	7:15:00	4.8	190	8.12	1.71	16.5
1/29/2007	7:30:00	4.8	190	8.12	1.73	16.7
1/29/2007	7:45:00	4.8	190	8.11	1.67	16.1
1/29/2007	8:00:00	4.8	190	8.10	1.61	15.5
1/29/2007	8:15:00	4.8	190	8.10	1.59	15.3
1/29/2007	8:30:00	4.8	190	8.09	1.55	14.9
1/29/2007	8:45:00	4.7	190	8.09	1.52	14.7
1/29/2007	9:00:00	4.7	191	8.09	1.54	14.8
1/29/2007	9:15:00	4.7	191	8.09	1.42	13.7
1/29/2007	9:30:00	4.7	191	8.09	1.41	13.6
1/29/2007	9:45:00	4.7	191	8.10	1.41	13.6
1/29/2007	10:00:00	4.7	191	8.10	1.41	13.6
1/29/2007	10:15:00	4.7	191	8.10	1.39	13.4
1/29/2007	10:30:00	4.6	191	8.10	1.36	13.1
1/29/2007	10:45:00	4.6	191	8.10	1.25	12.0
1/29/2007	11:00:00	4.6	191	8.10	1.24	11.9
1/29/2007	11:15:00	4.6	191	8.09	1.23	11.8
1/29/2007	11:30:00	4.6	191	8.09	1.12	10.8
1/29/2007	11:45:00	4.6	191	8.09	1.10	10.6
1/29/2007	12:00:00	4.5	191	8.09	1.11	10.7
1/29/2007	12:15:00	4.5	191	8.09	1.05	10.1
1/29/2007	12:30:00	4.5	191	8.08	1.04	10.0
1/29/2007	12:45:00	4.5	191	8.08	1.01	9.7
1/29/2007	13:00:00	4.5	191	8.07	0.91	8.7
1/29/2007	13:15:00	4.5	191	8.06	0.86	8.3
1/29/2007	13:30:00	4.5	191	8.05	0.80	7.7
1/29/2007	13:45:00	4.6	191	8.03	0.75	7.2
1/29/2007	14:00:00	4.6	191	8.02	0.71	6.8
1/29/2007	14:15:00	4.6	191	8.01	0.70	6.7
1/29/2007	14:30:00	4.6	191	7.99	0.67	6.4
1/29/2007	14:45:00	4.7	191	7.98	0.64	6.2
1/29/2007	15:00:00	4.7	191	7.97	0.60	5.8
1/29/2007	15:15:00	4.7	191	7.96	0.61	5.9
1/29/2007	15:30:00	4.8	191	7.94	0.59	5.7

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/29/2007	15:45:00	4.8	192	7.91	0.60	5.8
1/29/2007	16:00:00	4.8	192	7.87	0.54	5.2
1/29/2007	16:15:00	4.9	192	7.83	0.57	5.5
1/29/2007	16:30:00	4.9	192	7.81	0.56	5.4
1/29/2007	16:45:00	5.0	192	7.80	0.45	4.4
1/29/2007	17:00:00	5.1	191	7.79	0.49	4.8
1/29/2007	17:15:00	5.2	191	7.83	0.58	5.6
1/29/2007	17:30:00	5.2	191	7.85	0.66	6.4
1/29/2007	17:45:00	5.4	190	7.88	0.76	7.4
1/29/2007	18:00:00	5.5	190	7.91	0.82	8.0
1/29/2007	18:15:00	5.7	190	7.93	0.83	8.2
1/29/2007	18:30:00	5.9	190	7.94	0.82	8.1
1/29/2007	18:45:00	6.0	190	7.96	0.77	7.6
1/29/2007	19:00:00	6.1	190	7.96	0.80	7.9
1/29/2007	19:15:00	6.2	190	7.96	0.75	7.5
1/29/2007	19:30:00	6.2	190	7.97	0.69	6.9
1/29/2007	19:45:00	6.2	191	7.97	0.63	6.3
1/29/2007	20:00:00	6.3	191	7.97	0.62	6.2
1/29/2007	20:15:00	6.3	191	7.97	0.59	5.9
1/29/2007	20:30:00	6.3	191	7.97	0.58	5.8
1/29/2007	20:45:00	6.3	191	7.97	0.60	6.0
1/29/2007	21:00:00	6.3	191	7.97	0.54	5.4
1/29/2007	21:15:00	6.4	191	7.97	0.51	5.1
1/29/2007	21:30:00	6.4	191	7.96	0.56	5.6
1/29/2007	21:45:00	6.4	191	7.98	0.51	5.1
1/29/2007	22:00:00	6.4	191	7.97	0.45	4.5
1/29/2007	22:15:00	6.4	191	7.97	0.48	4.8
1/29/2007	22:30:00	6.4	191	7.97	0.44	4.4
1/29/2007	22:45:00	6.4	191	7.97	0.42	4.2
1/29/2007	23:00:00	6.4	191	7.96	0.46	4.6
1/29/2007	23:15:00	6.4	191	7.96	0.45	4.5
1/29/2007	23:30:00	6.4	191	7.96	0.47	4.7
1/29/2007	23:45:00	6.3	192	7.96	0.38	3.8
1/30/2007	0:00:00	6.3	192	7.96	0.44	4.4
1/30/2007	0:15:00	6.3	192	7.98	0.51	5.1
1/30/2007	0:30:00	6.3	192	7.98	0.47	4.7
1/30/2007	0:45:00	6.2	192	7.98	0.39	3.9
1/30/2007	1:00:00	6.0	193	7.99	0.33	3.3
1/30/2007	1:15:00	5.9	196	7.99	0.27	2.7
1/30/2007	1:30:00	5.7	197	7.99	0.19	1.9
1/30/2007	1:45:00	5.6	198	7.99	0.22	2.2
1/30/2007	2:00:00	5.6	197	7.98	0.19	1.9
1/30/2007	2:15:00	5.5	197	7.98	0.17	1.7
1/30/2007	2:30:00	5.5	197	7.99	0.11	1.1
1/30/2007	2:45:00	5.4	196	8.00	0.10	1.0

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/30/2007	3:00:00	5.4	196	8.00	0.14	1.4
1/30/2007	3:15:00	5.4	195	8.02	0.15	1.5
1/30/2007	3:30:00	5.4	195	8.04	0.10	1.0
1/30/2007	3:45:00	5.3	195	8.04	0.15	1.5
1/30/2007	4:00:00	5.3	194	8.05	0.10	1.0
1/30/2007	4:15:00	5.3	194	8.05	0.14	1.4
1/30/2007	4:30:00	5.3	193	8.04	0.14	1.4
1/30/2007	4:45:00	5.2	192	8.04	0.08	0.8
1/30/2007	5:00:00	5.2	192	8.03	0.08	0.8
1/30/2007	5:15:00	5.2	192	8.03	0.07	0.7
1/30/2007	5:30:00	5.1	192	8.02	0.07	0.7
1/30/2007	5:45:00	5.1	192	8.01	0.12	1.2
1/30/2007	6:00:00	5.1	192	8.00	0.11	1.1
1/30/2007	6:15:00	5.0	192	7.98	0.07	0.7
1/30/2007	6:30:00	5.0	191	7.97	0.06	0.6
1/30/2007	6:45:00	4.9	191	7.97	0.07	0.7
1/30/2007	7:00:00	4.9	191	7.96	0.07	0.7
1/30/2007	7:15:00	4.9	191	7.95	0.06	0.6
1/30/2007	7:30:00	4.8	190	7.95	0.06	0.6
1/30/2007	7:45:00	4.8	190	7.95	0.07	0.7
1/30/2007	8:00:00	4.8	190	7.96	0.12	1.2
1/30/2007	8:15:00	4.8	189	7.96	0.13	1.3
1/30/2007	8:30:00	4.7	189	7.96	0.10	1.0
1/30/2007	8:45:00	4.7	189	7.96	0.07	0.7
1/30/2007	9:00:00	4.7	189	7.96	0.07	0.7
1/30/2007	9:15:00	4.6	188	7.95	0.12	1.2
1/30/2007	9:30:00	4.6	188	7.94	0.14	1.3
1/30/2007	9:45:00	4.6	188	7.94	0.09	0.9
1/30/2007	10:00:00	4.6	187	7.94	0.06	0.6
1/30/2007	10:15:00	4.5	187	7.94	0.10	1.0
1/30/2007	10:30:00	4.5	187	7.95	0.14	1.3
1/30/2007	10:45:00	4.5	187	7.94	0.08	0.8
1/30/2007	11:00:00	4.6	177	8.00	0.19	1.8
1/30/2007	11:15:00	3.9	443	8.27	10.77	102.0
1/30/2007	11:30:00	4.1	447	8.27	10.88	103.4
1/30/2007	11:45:00	4.3	444	8.27	10.92	104.2
1/30/2007	12:00:00	4.4	447	8.26	10.90	104.3
1/30/2007	12:15:00	4.6	446	8.27	10.88	104.5
1/30/2007	12:30:00	4.7	444	8.27	10.82	104.3
1/30/2007	12:45:00	4.8	444	8.27	10.83	104.6
1/30/2007	13:00:00	5.0	444	8.28	10.80	104.6
1/30/2007	13:15:00	5.1	444	8.28	10.86	105.4
1/30/2007	13:30:00	5.1	446	8.28	10.79	104.8
1/30/2007	13:45:00	5.2	440	8.28	10.76	104.8
1/30/2007	14:00:00	5.3	445	8.28	10.77	105.0

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/30/2007	14:15:00	5.4	442	8.28	10.75	105.0
1/30/2007	14:30:00	5.5	440	8.28	10.73	105.0
1/30/2007	14:45:00	5.5	442	8.28	10.69	104.8
1/30/2007	15:00:00	5.6	443	8.28	10.61	104.2
1/30/2007	15:15:00	5.7	441	8.28	10.62	104.4
1/30/2007	15:30:00	5.7	441	8.28	10.61	104.4
1/30/2007	15:45:00	5.7	440	8.28	10.66	104.9
1/30/2007	16:00:00	5.7	437	8.28	10.67	105.0
1/30/2007	16:15:00	5.7	439	8.28	10.65	104.8
1/30/2007	16:30:00	5.7	435	8.28	10.60	104.3
1/30/2007	16:45:00	5.8	441	8.28	10.59	104.3
1/30/2007	17:00:00	5.8	438	8.28	10.65	104.9
1/30/2007	17:15:00	5.8	436	8.28	10.63	104.8
1/30/2007	17:30:00	5.8	433	8.28	10.54	103.9
1/30/2007	17:45:00	5.8	435	8.29	10.58	104.3
1/30/2007	18:00:00	5.8	440	8.29	10.59	104.3
1/31/2007	18:15:00	5.8	437	8.29	10.57	104.1
1/31/2007	18:30:00	5.7	434	8.29	10.47	103.1
1/31/2007	18:45:00	5.7	436	8.29	10.54	103.7
1/31/2007	19:00:00	5.7	434	8.29	10.53	103.5
1/31/2007	19:15:00	5.7	433	8.29	10.47	102.9
1/31/2007	19:30:00	5.6	434	8.29	10.43	102.5
1/31/2007	19:45:00	5.6	434	8.29	10.51	103.2
1/31/2007	20:00:00	5.6	432	8.29	10.48	102.9
1/31/2007	20:15:00	5.6	433	8.29	10.55	103.6
1/31/2007	20:30:00	5.6	431	8.29	10.51	103.2
1/31/2007	20:45:00	5.6	432	8.29	10.57	103.8
1/31/2007	21:00:00	5.6	416	8.29	10.49	103.0
1/31/2007	21:15:00	5.6	433	8.29	10.47	102.8
1/31/2007	21:30:00	5.6	430	8.29	10.46	102.6
1/31/2007	21:45:00	5.6	225	8.28	10.56	103.5
1/31/2007	22:00:00	5.5	237	8.29	10.42	102.1
1/31/2007	22:15:00	5.5	430	8.29	10.47	102.6
1/31/2007	22:30:00	5.5	433	8.29	10.45	102.3
1/31/2007	22:45:00	5.5	417	8.28	10.44	102.2
1/31/2007	23:00:00	5.4	435	8.29	10.41	101.8
1/31/2007	23:15:00	5.4	433	8.28	10.59	103.5
1/31/2007	23:30:00	5.4	273	8.28	10.42	101.8
1/31/2007	23:45:00	5.3	231	8.28	10.32	100.7
1/31/2007	0:00:00	5.3	436	8.28	10.50	102.4
1/31/2007	0:15:00	5.2	431	8.28	10.57	103.0
1/31/2007	0:30:00	5.2	435	8.28	10.59	103.1
1/31/2007	0:45:00	5.2	429	8.28	10.57	102.8
1/31/2007	1:00:00	5.1	415	8.28	10.57	102.6
1/31/2007	1:15:00	5.0	429	8.29	10.63	103.1

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/31/2007	1:30:00	5.0	436	8.28	10.59	102.7
1/31/2007	1:45:00	5.0	438	8.29	10.53	102.1
1/31/2007	2:00:00	5.0	432	8.28	10.50	101.8
1/31/2007	2:15:00	5.0	336	8.28	10.50	101.7
1/31/2007	2:30:00	4.9	278	8.28	10.54	102.0
1/31/2007	2:45:00	4.9	439	8.28	10.63	102.8
1/31/2007	3:00:00	4.8	444	8.28	10.63	102.6
1/31/2007	3:15:00	4.8	445	8.28	10.69	103.1
1/31/2007	3:30:00	4.7	445	8.28	10.77	103.8
1/31/2007	3:45:00	4.6	441	8.29	10.61	102.1
1/31/2007	4:00:00	4.6	443	8.29	10.55	101.3
1/31/2007	4:15:00	4.5	442	8.28	10.61	101.8
1/31/2007	4:30:00	4.5	443	8.29	10.60	101.6
1/31/2007	4:45:00	4.5	437	8.28	10.67	102.2
1/31/2007	5:00:00	4.5	437	8.28	10.54	101.0
1/31/2007	5:15:00	4.4	443	8.29	10.64	101.9
1/31/2007	5:30:00	4.4	446	8.29	10.64	101.9
1/31/2007	5:45:00	4.4	440	8.29	10.59	101.3
1/31/2007	6:00:00	4.4	442	8.28	10.58	101.2
1/31/2007	6:15:00	4.4	443	8.29	10.58	101.2
1/31/2007	6:30:00	4.3	447	8.29	10.61	101.4
1/31/2007	6:45:00	4.3	435	8.28	10.64	101.6
1/31/2007	7:00:00	4.3	445	8.28	10.70	102.1
1/31/2007	7:15:00	4.2	446	8.28	10.66	101.7
1/31/2007	7:30:00	4.2	445	8.28	10.69	101.9
1/31/2007	7:45:00	4.2	445	8.28	10.69	101.8
1/31/2007	8:00:00	4.2	443	8.28	10.68	101.7
1/31/2007	8:15:00	4.2	442	8.28	10.74	102.3
1/31/2007	8:30:00	4.2	443	8.28	10.67	101.7
1/31/2007	8:45:00	4.3	440	8.29	10.63	101.5
1/31/2007	9:00:00	4.3	441	8.28	10.61	101.4
1/31/2007	9:15:00	4.4	438	8.29	10.69	102.3
1/31/2007	9:30:00	4.5	444	8.28	10.75	103.1
1/31/2007	9:45:00	4.6	444	8.28	10.72	103.0
1/31/2007	10:00:00	4.7	444	8.29	10.73	103.4
1/31/2007	10:15:00	4.9	445	8.29	10.76	104.0
1/31/2007	10:30:00	5.1	445	8.29	10.76	104.4
1/31/2007	10:45:00	5.4	448	8.29	10.75	105.0
1/31/2007	11:00:00	5.6	442	8.29	10.71	105.1
1/31/2007	11:15:00	5.8	445	8.29	10.65	105.1
1/31/2007	11:30:00	6.0	440	8.29	10.54	104.4
1/31/2007	11:45:00	6.3	425	8.29	10.58	105.3
1/31/2007	12:00:00	6.3	435	8.30	10.56	105.2
1/31/2007	12:15:00	6.3	448	8.30	10.53	105.0
1/31/2007	12:30:00	6.4	438	8.30	10.56	105.4

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

1/31/2007	12:45:00	6.4	444	8.29	10.57	105.6
1/31/2007	13:00:00	6.6	448	8.30	10.48	105.1
1/31/2007	13:15:00	6.6	445	8.30	10.41	104.4
1/31/2007	13:30:00	6.7	444	8.30	10.41	104.5
1/31/2007	13:45:00	6.8	443	8.30	10.33	104.1
1/31/2007	14:00:00	6.9	442	8.30	10.34	104.4
1/31/2007	14:15:00	7.0	441	8.30	10.31	104.4
1/31/2007	14:30:00	7.2	438	8.31	10.17	103.3
1/31/2007	14:45:00	7.3	447	8.30	10.20	103.8
1/31/2007	15:00:00	7.4	446	8.30	10.18	103.8
1/31/2007	15:15:00	7.5	447	8.31	10.17	103.9
1/31/2007	15:30:00	7.5	446	8.31	10.12	103.5
1/31/2007	15:45:00	7.5	447	8.30	10.05	102.9
1/31/2007	16:00:00	7.6	448	8.31	10.06	103.0
1/31/2007	16:15:00	7.6	450	8.31	10.16	104.0
1/31/2007	16:30:00	7.6	449	8.31	10.10	103.5
1/31/2007	16:45:00	7.6	450	8.31	10.05	103.0
1/31/2007	17:00:00	7.6	448	8.30	10.04	103.0
1/31/2007	17:15:00	7.6	447	8.31	10.03	102.9
1/31/2007	17:30:00	7.6	450	8.30	9.91	101.6
1/31/2007	17:45:00	7.6	436	8.30	10.02	102.7
1/31/2007	18:00:00	7.5	446	8.30	10.01	102.5
1/31/2007	18:15:00	7.5	429	8.30	9.96	101.8
1/31/2007	18:30:00	7.4	304	8.30	10.04	102.5
1/31/2007	18:45:00	7.3	342	8.30	9.98	101.7
1/31/2007	19:00:00	7.2	404	8.29	9.96	101.3
1/31/2007	19:15:00	7.1	444	8.31	9.98	101.2
1/31/2007	19:30:00	7.0	445	8.30	9.99	101.0
1/31/2007	19:45:00	6.8	425	8.30	9.98	100.5
1/31/2007	20:00:00	6.7	334	8.30	9.94	99.9
1/31/2007	20:15:00	6.6	271	8.30	9.96	99.8
1/31/2007	20:30:00	6.4	244	8.30	9.99	99.8
1/31/2007	20:45:00	6.3	241	8.30	9.96	99.3
1/31/2007	21:00:00	6.3	274	8.29	10.08	100.3
1/31/2007	21:15:00	6.2	294	8.29	10.05	99.9
1/31/2007	21:30:00	6.1	260	8.29	9.99	99.2
1/31/2007	21:45:00	6.1	256	8.29	10.02	99.3
1/31/2007	22:00:00	6.0	217	8.29	10.00	99.0
1/31/2007	22:15:00	6.0	213	8.29	10.01	99.0
1/31/2007	22:30:00	5.9	210	8.29	9.99	98.7
1/31/2007	22:45:00	5.9	206	8.29	9.92	97.9
1/31/2007	23:00:00	5.8	206	8.29	10.00	98.6
1/31/2007	23:15:00	5.7	205	8.29	9.98	98.2
1/31/2007	23:30:00	5.7	204	8.29	9.95	97.8
1/31/2007	23:45:00	5.6	203	8.29	9.97	97.8

Table 5.27. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico in January 2007. [Temp (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), calculated *** dissolved oxygen in milligrams/Liter; %, measured percent dissolved oxygen saturation; *, probe likely buried or repositioned; shading identifies nighttime between dusk to dawn (*** see narrative for information).]

2/1/2007	0:00:00	5.5	203	8.29	10.03	98.2
2/1/2007	0:15:00	5.4	202	8.29	10.01	97.8
2/1/2007	0:30:00	5.3	202	8.29	10.18	99.3
2/1/2007	0:45:00	5.2	202	8.29	10.22	99.5
2/1/2007	1:00:00	5.1	202	8.29	10.14	98.6
2/1/2007	1:15:00	5.1	201	8.29	10.12	98.2
2/1/2007	1:30:00	5.0	201	8.29	10.11	98.0
2/1/2007	1:45:00	4.9	201	8.28	10.12	97.9
2/1/2007	2:00:00	4.8	201	8.29	10.22	98.7
2/1/2007	2:15:00	4.7	201	8.29	10.25	98.8
2/1/2007	2:30:00	4.7	201	8.29	10.20	98.2
2/1/2007	2:45:00	4.6	201	8.29	10.18	97.8
2/1/2007	3:00:00	4.5	201	8.28	10.21	97.9
2/1/2007	3:15:00	4.4	201	8.28	10.24	98.0
2/1/2007	3:30:00	4.3	201	8.28	10.29	98.3
2/1/2007	3:45:00	4.2	201	8.28	10.41	99.3
2/1/2007	4:00:00	4.2	201	8.29	10.41	99.2
2/1/2007	4:15:00	4.1	201	8.28	10.24	97.4
2/1/2007	4:30:00	4.0	201	8.28	10.32	98.0
2/1/2007	4:45:00	3.9	201	8.28	10.26	97.3
2/1/2007	5:00:00	3.9	202	8.28	10.29	97.4
2/1/2007	5:15:00	3.8	202	8.28	10.32	97.5
2/1/2007	5:30:00	3.7	202	8.29	10.43	98.5
2/1/2007	5:45:00	3.7	202	8.28	10.28	96.9
2/1/2007	6:00:00	3.6	202	8.28	10.34	97.4
2/1/2007	6:15:00	3.6	202	8.28	10.40	97.9
2/1/2007	6:30:00	3.6	202	8.28	10.28	96.8
2/1/2007	6:45:00	3.6	202	8.29	10.37	97.6
2/1/2007	7:00:00	3.5	202	8.29	10.57	99.4
2/1/2007	7:15:00	3.5	202	8.28	10.42	97.9
2/1/2007	7:30:00	3.5	202	8.28	10.49	98.6
2/1/2007	7:45:00	3.5	202	8.28	10.42	97.9
2/1/2007	8:00:00	3.5	202	8.29	10.45	98.2
2/1/2007	8:15:00	3.5	202	8.29	10.49	98.6
2/1/2007	8:30:00	3.6	203	8.28	10.51	98.9
2/1/2007	8:45:00	3.6	203	8.29	10.54	99.3
2/1/2007	9:00:00	3.7	203	8.29	10.57	99.8
2/1/2007	9:15:00	3.8	203	8.29	10.50	99.3
2/1/2007	9:30:00	3.9	203	8.29	10.55	99.9
2/1/2007	9:45:00	4.0	203	8.29	10.55	100.1
2/1/2007	10:00:00	4.1	204	8.29	10.59	100.7
2/1/2007	10:15:00	4.2	204	8.29	10.66	101.6
2/1/2007	10:30:00	4.3	204	8.29	10.55	100.7
2/1/2007	10:45:00	4.3	204	8.29	10.48	100.1
2/1/2007	11:00:00	4.4	204	8.31	10.39	99.4

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**site1_4-20-07**
Setup	**Date**	**(MMDDYY)**	**:**	**4/20/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**14:39:00**
Starting	**Date**	**(MMDDYY)**	**:**	**4/20/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**141513**
Stopping	**Date**	**(MMDDYY)**	**:**	**4/27/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**13:00**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYY)	Time HHMMSS	Temp (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
4/20/2007	14:45:13	13.2	232	7.95	8.31	95.4
4/20/2007	15:00:13	13.4	230	7.97	8.28	95.4
4/20/2007	15:15:13	13.6	227	7.99	8.35	96.7
4/20/2007	15:30:13	13.7	223	8.01	8.17	95.0
4/20/2007	15:45:13	13.9	223	8.03	8.16	95.1
4/20/2007	16:00:13	14.0	216	8.04	8.14	95.2
4/20/2007	16:15:13	14.2	212	8.05	8.13	95.4
4/20/2007	16:30:13	14.3	212	8.07	8.04	94.5
4/20/2007	16:45:13	14.4	216	8.09	8.07	95.1
4/20/2007	17:00:13	14.4	213	8.10	8.05	95.0
4/20/2007	17:15:13	14.5	213	8.10	7.71	91.1
4/20/2007	17:30:13	14.6	210	8.11	6.45	76.3
4/20/2007	17:45:13	14.6	211	8.12	6.08	71.9
4/20/2007	18:00:13	14.6	213	8.12	5.95	70.4
4/20/2007	18:15:13	14.5	214	8.12	5.81	68.7
4/20/2007	18:30:13	14.5	209	8.13	5.20	61.5
4/20/2007	18:45:13	14.5	210	8.15	5.41	63.9
4/20/2007	19:00:13	14.4	210	8.18	5.43	64.1
4/20/2007	19:15:13	14.4	210	8.19	5.46	64.4
4/20/2007	19:30:13	14.4	211	8.21	5.50	64.7
4/20/2007	19:45:13	14.3	209	8.23	5.41	63.7
4/20/2007	20:00:13	14.3	206	8.24	4.35	51.2
4/20/2007	20:15:13	14.3	204	8.26	4.25	50.0
4/20/2007	20:30:13	14.3	203	8.28	3.82	44.9*
4/20/2007	20:45:13	14.3	205	8.30	3.29	38.7
4/20/2007	21:00:13	14.3	207	8.33	3.87	45.6
4/20/2007	21:15:13	14.3	207	8.36	4.20	49.4
4/20/2007	21:30:13	14.3	208	8.39	4.14	48.7
4/20/2007	21:45:13	14.3	209	8.42	4.94	58.1
4/20/2007	22:00:13	14.4	210	8.44	4.78	56.2
4/20/2007	22:15:13	14.4	210	8.46	4.59	54.1

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/20/2007	22:30:13	14.4	211	8.49	4.53	53.3
4/20/2007	22:45:13	14.4	208	8.52	4.27	50.3
4/20/2007	23:00:13	14.4	204	8.55	3.44	40.5
4/20/2007	23:15:13	14.3	207	8.57	3.20	37.7
4/20/2007	23:30:13	14.3	204	8.60	2.98	35.0
4/20/2007	23:45:13	14.3	208	8.63	2.92	34.3
4/21/2007	0:15:13	14.2	208	8.67	3.58	42.0
4/21/2007	0:30:13	14.2	208	8.69	3.75	44.0
4/21/2007	0:45:13	14.2	205	8.71	3.77	44.2
4/21/2007	1:00:13	14.1	208	8.73	3.42	40.0
4/21/2007	2:00:13	13.9	205	8.78	3.65	42.5
4/21/2007	2:15:13	13.8	207	8.79	3.35	39.0
4/21/2007	2:30:13	13.7	204	8.79	3.50	40.7
4/21/2007	2:45:13	13.6	204	8.79	3.15	36.5
4/21/2007	3:00:13	13.5	203	8.79	2.94	34.0
4/21/2007	3:15:13	13.4	204	8.79	2.89	33.4
4/21/2007	3:30:13	13.3	208	8.78	2.80	32.2
4/21/2007	3:45:13	13.2	205	8.78	3.11	35.7
4/21/2007	4:00:13	13.1	203	8.77	2.85	32.7
4/21/2007	4:15:13	12.9	205	8.75	2.79	31.9
4/21/2007	4:30:13	12.8	207	8.74	3.18	36.2
4/21/2007	4:45:13	12.7	206	8.72	2.93	33.2
4/21/2007	5:00:13	12.5	205	8.70	2.86	32.3
4/21/2007	5:15:13	12.4	205	8.68	2.81	31.7
4/21/2007	5:30:13	12.2	208	8.65	2.85	32.0
4/21/2007	5:45:13	12.1	199	8.62	2.87	32.2
4/21/2007	6:00:13	11.9	195	8.58	2.85	31.8
4/21/2007	6:15:13	11.8	199	8.55	2.80	31.2
4/21/2007	6:30:13	11.6	200	8.51	2.82	31.3
4/21/2007	6:45:13	11.5	197	8.47	2.82	31.1
4/21/2007	7:00:13	11.3	198	8.43	2.81	30.9
4/21/2007	7:15:13	11.2	198	8.39	2.81	30.9
4/21/2007	7:30:13	11.1	201	8.35	2.90	31.7
4/21/2007	7:45:13	11.0	209	8.30	3.05	33.3
4/21/2007	8:00:13	10.9	207	8.26	3.19	34.7
4/21/2007	8:15:13	10.8	202	8.22	3.25	35.4
4/21/2007	8:30:13	10.8	201	8.18	3.42	37.2
4/21/2007	8:45:13	10.7	201	8.16	3.20	34.7
4/21/2007	9:00:13	10.6	201	8.13	3.34	36.2
4/21/2007	9:15:13	10.6	199	8.11	3.34	36.2
4/21/2007	9:30:13	10.6	200	8.09	3.33	36.0
4/21/2007	9:45:13	10.5	197	8.10	3.24	35.0
4/21/2007	10:00:13	10.5	197	8.07	3.62	39.1
4/21/2007	10:15:13	10.5	203	8.07	3.26	35.2
4/21/2007	10:30:13	10.6	201	8.06	3.37	36.4

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	10:45:13	10.6	199	8.03	3.32	36.0
4/21/2007	11:00:13	10.6	198	8.04	3.33	36.1
4/21/2007	11:15:13	10.6	191	8.03	3.44	37.2
4/21/2007	11:30:13	10.6	197	8.02	3.41	36.8
4/21/2007	11:45:13	10.5	196	8.02	3.44	37.2
4/21/2007	12:00:13	10.5	198	8.03	3.55	38.3
4/21/2007	12:15:13	10.5	195	8.05	3.44	37.2
4/21/2007	12:30:13	10.6	199	8.05	3.85	41.6
4/21/2007	12:45:13	10.6	200	8.04	3.45	37.3
4/21/2007	13:00:13	10.6	200	8.05	3.53	38.3
4/21/2007	13:15:13	10.6	198	8.04	3.38	36.6
4/21/2007	13:30:13	10.7	200	8.05	3.36	36.4
4/21/2007	13:45:13	10.9	190	8.05	3.35	36.5
4/21/2007	14:00:13	10.9	204	8.05	3.45	37.6
4/21/2007	14:15:13	10.9	204	8.05	3.55	38.7
4/21/2007	14:30:13	10.9	204	8.06	3.44	37.4
4/21/2007	14:45:13	10.9	206	8.06	3.45	37.7
4/21/2007	15:00:13	10.9	206	8.07	3.49	38.0
4/21/2007	15:15:13	10.9	202	8.07	3.45	37.6
4/21/2007	15:30:13	10.9	208	8.07	3.54	38.5
4/21/2007	15:45:13	10.9	207	8.07	3.33	36.3
4/21/2007	16:45:13	11.0	204	8.08	3.49	38.1
4/21/2007	17:00:13	11.0	203	8.07	3.23	35.3
4/21/2007	17:15:13	11.0	206	8.08	3.01	32.9
4/21/2007	17:30:13	11.1	201	8.08	3.23	35.3
4/21/2007	17:45:13	11.1	205	8.09	3.11	34.1
4/21/2007	18:00:13	11.1	202	8.10	3.14	34.4
4/21/2007	18:15:13	11.1	205	8.10	3.40	37.3
4/21/2007	18:30:13	11.1	209	8.10	3.35	36.7
4/21/2007	18:45:13	11.2	208	8.11	3.58	39.3
4/21/2007	19:00:13	11.2	207	8.12	3.11	34.1
4/21/2007	19:15:13	11.2	211	8.12	3.10	34.0
4/21/2007	19:30:13	11.2	210	8.12	3.17	34.8
4/21/2007	19:45:13	11.2	209	8.13	3.02	33.1
4/21/2007	20:00:13	11.2	208	8.13	3.02	33.1
4/21/2007	20:15:13	11.2	207	8.14	3.09	33.8
4/21/2007	20:30:13	11.2	200	8.14	2.99	32.8
4/21/2007	20:45:13	11.2	209	8.16	3.32	36.4
4/21/2007	21:00:13	11.2	207	8.17	3.35	36.7
4/21/2007	21:15:13	11.2	210	8.18	3.13	34.4
4/21/2007	21:30:13	11.2	210	8.19	3.06	33.6
4/21/2007	21:45:13	11.2	210	8.20	3.19	35.0
4/21/2007	22:00:13	11.2	208	8.22	3.22	35.3
4/21/2007	22:15:13	11.2	211	8.23	3.17	34.7
4/21/2007	22:30:13	11.2	209	8.25	3.13	34.3

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	22:45:13	11.2	212	8.27	3.22	35.3
4/21/2007	23:00:13	11.2	209	8.28	2.78	30.5
4/21/2007	23:15:13	11.1	209	8.30	2.83	31.0
4/21/2007	23:30:13	11.1	210	8.31	2.89	31.6
4/21/2007	23:45:13	11.1	207	8.33	2.84	31.0
4/22/2007	0:00:13	11.0	203	8.34	2.73	29.9
4/22/2007	0:15:13	11.0	210	8.35	2.72	29.7
4/22/2007	0:30:13	11.0	210	8.37	2.74	29.9
4/22/2007	0:45:13	10.9	213	8.39	2.77	30.2
4/22/2007	1:00:13	10.9	214	8.39	2.83	30.8
4/22/2007	1:15:13	10.8	210	8.41	2.77	30.2
4/22/2007	1:30:13	10.8	206	8.43	2.68	29.2
4/22/2007	2:00:13	10.7	206	8.46	2.70	29.3
4/22/2007	2:15:13	10.7	206	8.49	2.71	29.3
4/22/2007	2:30:13	10.6	207	8.50	2.75	29.7
4/22/2007	2:45:13	10.6	212	8.51	2.68	29.0
4/22/2007	3:00:13	10.5	209	8.52	2.66	28.7
4/22/2007	3:15:13	10.5	208	8.53	2.69	29.0
4/22/2007	3:30:13	10.4	210	8.54	2.73	29.4
4/22/2007	3:45:13	10.3	211	8.54	2.71	29.2
4/22/2007	4:00:13	10.2	208	8.55	2.76	29.6
4/22/2007	4:15:13	10.2	210	8.56	2.78	29.8
4/22/2007	4:30:13	10.1	210	8.56	2.73	29.1
4/22/2007	4:45:13	10.0	208	8.56	2.72	29.0
4/22/2007	5:00:13	9.9	204	8.56	2.64	28.1
4/22/2007	5:15:13	9.7	207	8.56	2.59	27.4
4/22/2007	5:30:13	9.6	208	8.56	2.59	27.4
4/22/2007	5:45:13	9.5	206	8.56	2.60	27.4
4/22/2007	6:00:13	9.4	208	8.54	2.66	28.0
4/22/2007	6:15:13	9.3	207	8.53	2.70	28.4
4/22/2007	6:30:13	9.2	207	8.51	2.69	28.2
4/22/2007	7:30:13	8.9	209	8.40	2.82	29.4
4/22/2007	7:45:13	8.8	213	8.38	2.93	30.4
4/22/2007	8:00:13	8.8	211	8.34	2.97	30.8
4/22/2007	8:15:13	8.8	210	8.30	2.94	30.4
4/22/2007	8:30:13	8.8	209	8.26	2.90	30.1
4/22/2007	8:45:13	8.8	201	8.23	2.99	30.9
4/22/2007	9:00:13	8.8	194	8.21	2.95	30.6
4/22/2007	9:15:13	8.8	193	8.18	2.93	30.4
4/22/2007	9:30:13	8.9	196	8.16	2.89	30.1
4/22/2007	9:45:13	9.0	193	8.14	2.87	29.9
4/22/2007	10:00:13	9.1	197	8.12	2.85	29.8
4/22/2007	10:15:13	9.3	194	8.11	2.81	29.5
4/22/2007	10:30:13	9.4	200	8.09	2.85	30.0
4/22/2007	10:45:13	9.6	200	8.09	2.90	30.7

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	11:00:13	9.8	195	8.09	2.87	30.5
4/22/2007	11:15:13	10.1	196	8.08	2.85	30.4
4/22/2007	11:30:13	10.3	197	8.08	2.77	29.8
4/22/2007	11:45:13	10.5	198	8.08	2.75	29.7
4/22/2007	12:00:13	10.8	197	8.10	2.70	29.3
4/22/2007	12:15:13	11.0	198	8.09	2.62	28.6
4/22/2007	12:30:13	11.2	197	8.09	2.60	28.6
4/22/2007	12:45:13	11.5	199	8.09	2.57	28.4
4/22/2007	13:00:13	11.7	197	8.10	2.65	29.4
4/22/2007	13:15:13	11.9	197	8.10	2.67	29.8
4/22/2007	13:30:13	12.1	197	8.10	2.69	30.1
4/22/2007	13:45:13	12.3	200	8.11	2.71	30.4
4/22/2007	14:00:13	12.5	198	8.11	2.69	30.4
4/22/2007	14:15:13	12.7	198	8.12	2.60	29.6
4/22/2007	14:30:13	12.9	198	8.12	2.55	29.1
4/22/2007	14:45:13	13.1	197	8.13	2.47	28.3
4/22/2007	15:00:13	13.2	200	8.14	2.48	28.4
4/22/2007	15:15:13	13.4	197	8.14	2.43	28.0
4/22/2007	15:30:13	13.4	198	8.15	2.39	27.6
4/22/2007	15:45:13	13.6	197	8.15	2.36	27.3
4/22/2007	16:00:13	13.7	197	8.16	2.36	27.4
4/22/2007	16:15:13	13.7	196	8.17	2.38	27.7
4/22/2007	16:30:13	13.8	198	8.17	2.33	27.0
4/22/2007	16:45:13	13.9	202	8.18	2.32	27.1
4/22/2007	17:00:13	14.0	202	8.19	2.25	26.3
4/22/2007	17:15:13	14.1	215	8.20	2.23	26.1
4/22/2007	17:30:13	14.2	216	8.20	2.19	25.7
4/22/2007	17:45:13	14.2	210	8.21	2.13	25.0
4/22/2007	18:00:13	14.3	209	8.22	2.08	24.5
4/22/2007	18:15:13	14.3	216	8.23	2.03	23.8
4/22/2007	18:30:13	14.3	214	8.24	2.02	23.8
4/22/2007	18:45:13	14.2	214	8.24	2.00	23.4
4/22/2007	19:00:13	14.2	212	8.25	1.95	22.8
4/22/2007	19:15:13	14.2	217	8.26	1.97	23.2
4/22/2007	19:30:13	14.2	212	8.27	1.97	23.1
4/22/2007	19:45:13	14.2	212	8.28	1.93	22.6
4/22/2007	20:00:13	14.1	211	8.30	1.88	22.0
4/22/2007	20:15:13	14.1	215	8.31	1.89	22.2
4/22/2007	20:30:13	14.1	213	8.33	1.88	22.0
4/22/2007	20:45:13	14.0	214	8.35	1.94	22.7
4/22/2007	21:00:13	14.0	212	8.37	1.91	22.3
4/22/2007	21:15:13	14.0	211	8.39	1.92	22.4
4/22/2007	22:15:13	13.9	211	8.49	1.79	20.8
4/22/2007	22:30:13	13.9	213	8.52	1.83	21.4
4/22/2007	22:45:13	13.9	213	8.55	1.81	21.1

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	23:00:13	13.8	213	8.58	1.81	21.0
4/22/2007	23:15:13	13.8	207	8.61	1.79	20.8
4/22/2007	23:30:13	13.8	208	8.63	1.79	20.8
4/22/2007	23:45:13	13.7	211	8.66	1.74	20.2
4/23/2007	0:00:13	13.7	210	8.68	1.78	20.6
4/23/2007	0:15:13	13.7	213	8.70	1.78	20.6
4/23/2007	0:30:13	13.7	211	8.73	1.75	20.3
4/23/2007	0:45:13	13.7	208	8.75	1.72	20.0
4/23/2007	1:00:13	13.7	209	8.76	1.74	20.2
4/23/2007	1:15:13	13.6	208	8.78	1.71	19.9
4/23/2007	1:30:13	13.6	210	8.80	1.67	19.4
4/23/2007	1:45:13	13.6	209	8.81	1.68	19.4
4/23/2007	2:00:13	13.5	211	8.82	1.68	19.5
4/23/2007	2:15:13	13.5	208	8.83	1.64	18.9
4/23/2007	2:30:13	13.4	211	8.83	1.65	19.0
4/23/2007	2:45:13	13.3	212	8.84	1.62	18.6
4/23/2007	3:00:13	13.2	212	8.84	1.61	18.5
4/23/2007	3:15:13	13.2	210	8.84	1.57	18.0
4/23/2007	3:45:13	12.9	212	8.83	1.63	18.6
4/23/2007	4:00:13	12.8	214	8.83	1.65	18.8
4/23/2007	4:15:13	12.7	213	8.83	1.67	19.0
4/23/2007	4:30:13	12.6	212	8.81	1.73	19.6
4/23/2007	4:45:13	12.5	210	8.80	1.70	19.3
4/23/2007	5:00:13	12.4	211	8.79	1.74	19.6
4/23/2007	5:15:13	12.2	206	8.77	1.79	20.1
4/23/2007	5:30:13	12.1	209	8.76	1.81	20.2
4/23/2007	5:45:13	11.9	207	8.74	1.80	20.1
4/23/2007	6:00:13	11.8	206	8.72	1.79	19.9
4/23/2007	6:15:13	11.6	207	8.69	1.82	20.2
4/23/2007	6:30:13	11.5	206	8.65	1.85	20.4
4/23/2007	6:45:13	11.3	208	8.61	1.92	21.1
4/23/2007	7:00:13	11.2	208	8.57	1.97	21.6
4/23/2007	7:15:13	11.0	207	8.53	2.00	21.8
4/23/2007	7:30:13	10.9	209	8.49	2.06	22.4
4/23/2007	7:45:13	10.8	217	8.45	2.05	22.3
4/23/2007	8:00:13	10.7	217	8.40	2.09	22.7
4/23/2007	8:15:13	10.7	213	8.37	2.14	23.2
4/23/2007	8:30:13	10.7	215	8.32	2.14	23.2
4/23/2007	8:45:13	10.7	216	8.30	2.17	23.6
4/23/2007	9:00:13	10.7	208	8.25	2.19	23.8
4/23/2007	9:15:13	10.7	208	8.23	2.22	24.1
4/23/2007	9:30:13	10.8	214	8.20	2.25	24.5
4/23/2007	9:45:13	10.9	215	8.19	2.25	24.5
4/23/2007	10:00:13	10.9	213	8.17	2.22	24.2
4/23/2007	10:15:13	11.1	210	8.15	2.23	24.4

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	10:30:13	11.1	211	8.14	2.25	24.6
4/23/2007	10:45:13	11.2	213	8.13	2.27	24.9
4/23/2007	11:00:13	11.4	213	8.13	2.27	25.0
4/23/2007	11:15:13	11.5	212	8.12	2.20	24.3
4/23/2007	11:30:13	11.6	218	8.12	2.16	23.9
4/23/2007	11:45:13	11.8	211	8.12	2.14	23.8
4/23/2007	12:00:13	11.9	213	8.12	2.14	23.8
4/23/2007	12:15:13	12.1	208	8.12	2.07	23.2
4/23/2007	12:30:13	12.3	216	8.12	2.06	23.2
4/23/2007	12:45:13	12.6	212	8.12	2.02	22.9
4/23/2007	13:00:13	12.7	212	8.13	1.99	22.6
4/23/2007	13:15:13	13.0	212	8.13	2.02	23.0
4/23/2007	13:30:13	13.1	210	8.13	2.02	23.1
4/23/2007	13:45:13	13.2	218	8.13	2.03	23.3
4/23/2007	14:00:13	13.4	215	8.14	2.00	23.1
4/23/2007	14:15:13	13.6	212	8.14	1.97	22.9
4/23/2007	14:30:13	13.8	219	8.14	1.95	22.7
4/23/2007	14:45:13	13.9	217	8.15	1.90	22.1
4/23/2007	15:00:13	13.9	217	8.15	1.88	21.9
4/23/2007	15:15:13	13.9	217	8.15	1.89	22.1
4/23/2007	15:30:13	14.0	221	8.16	1.89	22.0
4/23/2007	15:45:13	14.0	219	8.16	1.89	22.1
4/23/2007	16:00:13	13.9	221	8.17	1.86	21.7
4/23/2007	16:15:13	13.9	216	8.17	1.88	22.0
4/23/2007	16:30:13	14.0	213	8.17	1.85	21.7
4/23/2007	16:45:13	13.9	218	8.17	1.86	21.7
4/23/2007	17:00:13	13.9	217	8.18	1.82	21.3
4/23/2007	17:15:13	13.8	216	8.18	1.81	21.1
4/23/2007	17:30:13	13.8	217	8.18	1.81	21.0
4/23/2007	17:45:13	13.7	219	8.19	1.84	21.4
4/23/2007	18:00:13	13.7	218	8.20	1.91	22.2
4/23/2007	18:15:13	13.6	220	8.20	1.95	22.6
4/23/2007	18:30:13	13.6	220	8.21	1.98	22.9
4/23/2007	18:45:13	13.6	220	8.22	1.96	22.7
4/23/2007	19:00:13	13.5	218	8.23	1.93	22.3
4/23/2007	19:15:13	13.5	221	8.23	1.96	22.6
4/23/2007	19:30:13	13.4	215	8.24	1.95	22.5
4/23/2007	19:45:13	13.3	212	8.25	1.93	22.2
4/23/2007	20:00:13	13.3	213	8.25	1.92	22.1
4/23/2007	20:15:13	13.2	211	8.26	1.93	22.1
4/23/2007	20:30:13	13.2	208	8.27	1.91	21.9
4/23/2007	20:45:13	13.1	205	8.29	1.89	21.6
4/23/2007	21:00:13	13.1	208	8.30	1.91	21.9
4/23/2007	21:15:13	13.0	206	8.31	1.89	21.7
4/23/2007	21:30:13	13.0	209	8.33	1.86	21.2

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	21:45:13	12.9	204	8.34	1.90	21.7
4/23/2007	22:00:13	12.9	213	8.36	1.87	21.4
4/23/2007	22:15:13	12.8	204	8.37	1.88	21.4
4/23/2007	22:30:13	12.8	208	8.39	1.90	21.6
4/23/2007	22:45:13	12.8	207	8.41	1.85	21.1
4/23/2007	23:00:13	12.8	205	8.43	1.89	21.5
4/23/2007	23:15:13	12.8	208	8.46	1.89	21.5
4/23/2007	23:30:13	12.7	207	8.47	1.88	21.4
4/23/2007	23:45:13	12.7	204	8.50	1.91	21.7
4/24/2007	0:00:13	12.6	204	8.52	1.89	21.4
4/24/2007	0:15:13	12.6	206	8.54	1.85	21.0
4/24/2007	0:30:13	12.6	202	8.56	1.84	20.8
4/24/2007	0:45:13	12.5	199	8.58	1.82	20.6
4/24/2007	1:00:13	12.5	202	8.61	1.82	20.6
4/24/2007	1:15:13	12.5	208	8.62	1.82	20.5
4/24/2007	1:30:13	12.4	199	8.64	1.83	20.7
4/24/2007	1:45:13	12.4	203	8.66	1.76	19.8
4/24/2007	2:00:13	12.4	199	8.67	1.75	19.7
4/24/2007	2:15:13	12.3	197	8.69	1.70	19.1
4/24/2007	2:30:13	12.3	199	8.70	1.67	18.7
4/24/2007	2:45:13	12.2	203	8.72	1.65	18.5
4/24/2007	3:00:13	12.1	202	8.72	1.66	18.6
4/24/2007	3:15:13	12.0	196	8.73	1.63	18.2
4/24/2007	3:30:13	11.9	195	8.74	1.65	18.4
4/24/2007	3:45:13	11.8	194	8.74	1.66	18.4
4/24/2007	4:00:13	11.7	196	8.74	1.70	18.9
4/24/2007	4:15:13	11.6	194	8.74	1.73	19.1
4/24/2007	4:30:13	11.5	193	8.73	1.78	19.7
4/24/2007	4:45:13	11.4	202	8.73	1.80	19.9
4/24/2007	5:00:13	11.2	206	8.72	1.85	20.3
4/24/2007	5:15:13	11.1	210	8.71	1.87	20.4
4/24/2007	5:30:13	11.0	205	8.69	1.89	20.6
4/24/2007	5:45:13	10.8	207	8.67	1.90	20.7
4/24/2007	6:00:13	10.7	207	8.66	1.89	20.5
4/24/2007	6:15:13	10.6	209	8.64	1.89	20.4
4/24/2007	6:30:13	10.5	206	8.62	1.88	20.3
4/24/2007	6:45:13	10.4	203	8.60	1.86	20.0
4/24/2007	7:00:13	10.3	203	8.57	1.82	19.6
4/24/2007	7:15:13	10.2	201	8.54	1.82	19.5
4/24/2007	7:30:13	10.1	196	8.51	1.79	19.2
4/24/2007	7:45:13	10.1	199	8.47	1.80	19.2
4/24/2007	8:00:13	10.0	193	8.44	1.78	18.9
4/24/2007	8:15:13	9.9	198	8.40	1.81	19.2
4/24/2007	8:30:13	9.8	197	8.36	1.81	19.2
4/24/2007	8:45:13	9.7	202	8.32	1.78	18.9

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	9:00:13	9.7	200	8.29	1.82	19.3
4/24/2007	9:15:13	9.6	201	8.26	1.82	19.2
4/24/2007	9:30:13	9.7	199	8.23	1.89	20.0
4/24/2007	9:45:13	9.6	203	8.21	1.88	19.8
4/24/2007	10:00:13	9.6	199	8.19	1.89	20.0
4/24/2007	10:15:13	9.6	206	8.17	1.94	20.5
4/24/2007	10:30:13	9.6	205	8.16	1.96	20.8
4/24/2007	10:45:13	9.7	203	8.15	1.97	20.8
4/24/2007	11:00:13	9.7	204	8.14	1.96	20.8
4/24/2007	11:15:13	9.8	203	8.13	1.92	20.4
4/24/2007	11:30:13	9.9	204	8.13	1.96	20.8
4/24/2007	11:45:13	9.9	208	8.12	2.04	21.7
4/24/2007	12:00:13	10.2	207	8.12	2.13	22.8
4/24/2007	12:15:13	10.2	207	8.12	2.18	23.4
4/24/2007	12:30:13	10.2	208	8.12	2.17	23.3
4/24/2007	12:45:13	10.2	201	8.12	2.13	22.9
4/24/2007	13:00:13	10.3	203	8.12	2.11	22.7
4/24/2007	13:15:13	10.4	207	8.12	2.04	22.0
4/24/2007	13:30:13	10.5	209	8.12	2.01	21.6
4/24/2007	13:45:13	10.6	204	8.12	1.95	21.1
4/24/2007	14:00:13	10.7	201	8.12	1.93	20.9
4/24/2007	14:15:13	10.8	197	8.13	1.90	20.6
4/24/2007	14:30:13	10.9	194	8.13	1.90	20.7
4/24/2007	14:45:13	11.0	203	8.13	1.90	20.8
4/24/2007	15:00:13	11.1	209	8.15	1.96	21.4
4/24/2007	15:15:13	11.2	211	8.15	2.01	22.1
4/24/2007	15:30:13	11.4	204	8.16	1.99	22.0
4/24/2007	15:45:13	11.5	203	8.17	2.02	22.4
4/24/2007	16:00:13	11.6	208	8.17	2.01	22.2
4/24/2007	16:15:13	11.7	205	8.17	2.00	22.2
4/24/2007	16:30:13	11.9	209	8.18	1.99	22.2
4/24/2007	16:45:13	12.0	202	8.18	1.95	21.7
4/24/2007	17:00:13	12.0	209	8.18	1.97	22.0
4/24/2007	17:15:13	12.0	197	8.18	1.92	21.5
4/24/2007	17:30:13	12.1	200	8.19	1.90	21.3
4/24/2007	17:45:13	12.1	208	8.19	1.93	21.6
4/24/2007	18:00:13	12.1	202	8.19	1.89	21.2
4/24/2007	18:15:13	12.1	196	8.20	1.88	21.0
4/24/2007	18:30:13	12.0	201	8.20	1.85	20.7
4/24/2007	18:45:13	12.0	200	8.20	1.85	20.7
4/24/2007	19:00:13	11.9	198	8.21	1.85	20.7
4/24/2007	19:15:13	11.9	199	8.22	1.84	20.5
4/24/2007	19:30:13	11.9	206	8.22	1.90	21.2
4/24/2007	19:45:13	11.8	205	8.22	1.94	21.6
4/24/2007	20:00:13	11.8	207	8.23	1.95	21.7

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	20:15:13	11.7	205	8.24	1.94	21.6
4/24/2007	20:30:13	11.7	201	8.25	1.90	21.1
4/24/2007	20:45:13	11.7	200	8.26	1.85	20.6
4/24/2007	21:00:13	11.7	207	8.27	1.87	20.7
4/24/2007	21:15:13	11.7	203	8.28	1.89	20.9
4/24/2007	21:30:13	11.7	202	8.29	1.84	20.4
4/24/2007	21:45:13	11.8	203	8.31	1.81	20.1
4/24/2007	22:00:13	11.8	203	8.33	1.76	19.6
4/24/2007	22:15:13	11.8	203	8.34	1.73	19.3
4/24/2007	22:30:13	11.8	206	8.36	1.72	19.1
4/24/2007	22:45:13	11.8	204	8.37	1.72	19.1
4/24/2007	23:00:13	11.7	205	8.38	1.75	19.4
4/24/2007	23:15:13	11.7	205	8.40	1.77	19.6
4/24/2007	23:30:13	11.7	199	8.42	1.75	19.5
4/24/2007	23:45:13	11.7	198	8.45	1.76	19.6
4/25/2007	0:00:13	11.7	196	8.47	1.72	19.1
4/25/2007	0:15:13	11.7	194	8.49	1.69	18.8
4/25/2007	0:30:13	11.7	191	8.51	1.71	19.0
4/25/2007	0:45:13	11.7	194	8.54	1.70	18.9
4/25/2007	1:00:13	11.7	196	8.56	1.74	19.4
4/25/2007	1:15:13	11.7	203	8.58	1.71	19.0
4/25/2007	1:30:13	11.7	199	8.61	1.73	19.2
4/25/2007	1:45:13	11.7	196	8.63	1.69	18.8
4/25/2007	2:00:13	11.7	197	8.65	1.72	19.2
4/25/2007	2:15:13	11.7	198	8.66	1.73	19.2
4/25/2007	2:30:13	11.7	198	8.67	1.72	19.1
4/25/2007	2:45:13	11.7	197	8.68	1.78	19.7
4/25/2007	3:00:13	11.6	200	8.69	1.76	19.5
4/25/2007	3:15:13	11.5	204	8.69	1.73	19.1
4/25/2007	3:30:13	11.4	202	8.70	1.74	19.2
4/25/2007	3:45:13	11.4	203	8.70	1.71	18.8
4/25/2007	4:00:13	11.3	203	8.70	1.67	18.4
4/25/2007	4:15:13	11.2	194	8.70	1.68	18.4
4/25/2007	4:30:13	11.1	192	8.69	1.66	18.1
4/25/2007	4:45:13	11.1	190	8.69	1.73	18.9
4/25/2007	5:00:13	11.0	187	8.68	1.72	18.8
4/25/2007	5:15:13	10.9	195	8.66	1.72	18.7
4/25/2007	5:30:13	10.7	202	8.65	1.74	18.9
4/25/2007	5:45:13	10.6	204	8.64	1.81	19.6
4/25/2007	6:00:13	10.5	197	8.61	1.79	19.3
4/25/2007	6:15:13	10.4	199	8.59	1.79	19.3
4/25/2007	6:30:13	10.2	197	8.56	1.78	19.0
4/25/2007	6:45:13	10.1	194	8.53	1.78	19.0
4/25/2007	7:00:13	10.0	192	8.49	1.82	19.5
4/25/2007	7:15:13	9.9	195	8.46	1.90	20.2

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	7:30:13	9.8	199	8.43	1.95	20.8
4/25/2007	7:45:13	9.8	200	8.39	1.92	20.4
4/25/2007	8:00:13	9.8	201	8.35	1.97	20.9
4/25/2007	8:15:13	9.7	209	8.32	2.05	21.7
4/25/2007	8:30:13	9.7	209	8.29	2.08	22.1
4/25/2007	8:45:13	9.8	213	8.27	2.12	22.5
4/25/2007	9:00:13	9.8	216	8.25	2.10	22.3
4/25/2007	9:15:13	9.9	205	8.23	2.12	22.6
4/25/2007	9:30:13	10.0	196	8.21	2.10	22.5
4/25/2007	9:45:13	10.1	199	8.20	2.11	22.5
4/25/2007	10:00:13	10.3	204	8.19	2.00	21.5
4/25/2007	10:15:13	10.4	204	8.18	1.98	21.4
4/25/2007	10:30:13	10.6	201	8.17	1.96	21.2
4/25/2007	10:45:13	10.8	203	8.16	1.98	21.6
4/25/2007	11:00:13	11.0	209	8.16	1.93	21.0
4/25/2007	11:15:13	11.2	215	8.16	1.85	20.3
4/25/2007	11:30:13	11.4	213	8.16	1.77	19.5
4/25/2007	11:45:13	11.7	214	8.16	1.69	18.7
4/25/2007	12:00:13	11.9	214	8.15	1.67	18.7
4/25/2007	12:15:13	12.2	209	8.15	1.62	18.2
4/25/2007	12:30:13	12.4	207	8.15	1.61	18.2
4/25/2007	12:45:13	12.7	206	8.15	1.56	17.7
4/25/2007	13:00:13	13.0	203	8.16	1.51	17.3
4/25/2007	13:15:13	13.2	201	8.16	1.48	17.0
4/25/2007	13:30:13	13.4	203	8.16	1.42	16.4
4/25/2007	13:45:13	13.7	202	8.16	1.41	16.4
4/25/2007	14:00:13	13.9	205	8.16	1.35	15.7
4/25/2007	14:15:13	14.1	208	8.17	1.32	15.4
4/25/2007	14:30:13	14.4	210	8.17	1.28	15.1
4/25/2007	14:45:13	14.6	210	8.17	1.25	14.8
4/25/2007	15:00:13	14.8	210	8.18	1.24	14.8
4/25/2007	15:15:13	15.0	211	8.18	1.24	14.8
4/25/2007	15:30:13	15.2	207	8.19	1.21	14.5
4/25/2007	15:45:13	15.4	212	8.19	1.17	14.1
4/25/2007	16:00:13	15.5	218	8.20	1.16	14.0
4/25/2007	16:15:13	15.7	215	8.20	1.14	13.8
4/25/2007	16:30:13	15.8	215	8.20	1.09	13.3
4/25/2007	16:45:13	15.9	209	8.21	1.08	13.2
4/25/2007	17:00:13	16.0	206	8.21	1.06	12.9
4/25/2007	17:15:13	16.0	210	8.22	1.06	12.9
4/25/2007	17:30:13	16.1	211	8.22	1.03	12.6
4/25/2007	17:45:13	16.1	211	8.23	1.00	12.2
4/25/2007	18:00:13	16.1	211	8.23	0.98	12.0
4/25/2007	18:15:13	16.1	207	8.24	1.00	12.2
4/25/2007	18:30:13	16.0	202	8.25	0.97	11.9

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	18:45:13	16.0	207	8.26	0.96	11.7
4/25/2007	19:00:13	15.9	208	8.26	0.93	11.3
4/25/2007	19:15:13	15.8	211	8.26	0.94	11.4
4/25/2007	19:30:13	15.7	206	8.27	0.90	10.9
4/25/2007	19:45:13	15.6	216	8.28	0.88	10.6
4/25/2007	20:00:13	15.5	216	8.29	0.88	10.7
4/25/2007	20:15:13	15.5	211	8.30	0.85	10.3
4/25/2007	20:30:13	15.4	205	8.32	0.88	10.6
4/25/2007	20:45:13	15.4	204	8.33	0.84	10.1
4/25/2007	21:00:13	15.3	198	8.35	0.83	10.0
4/25/2007	21:15:13	15.3	205	8.37	0.84	10.1
4/25/2007	21:30:13	15.2	206	8.38	0.84	10.1
4/25/2007	21:45:13	15.2	209	8.40	0.84	10.0
4/25/2007	22:00:13	15.1	215	8.42	0.83	10.0
4/25/2007	22:15:13	15.1	215	8.45	0.84	10.1
4/25/2007	22:30:13	15.1	214	8.47	0.82	9.8
4/25/2007	22:45:13	15.0	208	8.49	0.80	9.6
4/25/2007	23:00:13	15.0	211	8.51	0.80	9.5
4/25/2007	23:15:13	14.9	208	8.54	0.77	9.2
4/25/2007	23:30:13	14.9	203	8.56	0.83	9.9
4/25/2007	23:45:13	14.9	205	8.59	0.84	10.0
4/26/2007	0:00:13	14.8	209	8.62	0.84	10.0
4/26/2007	0:15:13	14.8	209	8.64	0.83	9.8
4/26/2007	0:30:13	14.8	199	8.67	0.82	9.8
4/26/2007	0:45:13	14.7	207	8.68	0.79	9.3
4/26/2007	1:00:13	14.7	201	8.70	0.76	9.0
4/26/2007	1:15:13	14.6	198	8.72	0.75	8.9
4/26/2007	1:30:13	14.6	197	8.74	0.76	9.0
4/26/2007	1:45:13	14.5	196	8.75	0.76	9.0
4/26/2007	2:00:13	14.4	197	8.77	0.76	9.0
4/26/2007	2:15:13	14.3	202	8.78	0.72	8.5
4/26/2007	2:30:13	14.3	196	8.79	0.72	8.5
4/26/2007	2:45:13	14.2	199	8.80	0.68	8.0
4/26/2007	3:00:13	14.1	196	8.81	0.70	8.2
4/26/2007	3:15:13	14.0	198	8.82	0.72	8.4
4/26/2007	3:30:13	13.9	206	8.83	0.72	8.4
4/26/2007	3:45:13	13.8	199	8.83	0.70	8.1
4/26/2007	4:00:13	13.7	199	8.83	0.75	8.6
4/26/2007	4:15:13	13.5	200	8.83	0.74	8.5
4/26/2007	4:30:13	13.4	203	8.83	0.76	8.7
4/26/2007	4:45:13	13.2	201	8.83	0.76	8.8
4/26/2007	5:00:13	13.1	199	8.82	0.78	8.9
4/26/2007	5:15:13	12.9	204	8.81	0.81	9.2
4/26/2007	5:30:13	12.7	205	8.80	0.85	9.6
4/26/2007	5:45:13	12.5	198	8.79	0.87	9.9

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	6:00:13	12.3	193	8.78	0.91	10.2
4/26/2007	6:15:13	12.1	202	8.76	0.91	10.2
4/26/2007	6:30:13	11.9	195	8.74	0.87	9.7
4/26/2007	6:45:13	11.7	192	8.72	0.89	9.8
4/26/2007	7:00:13	11.5	195	8.70	0.85	9.4
4/26/2007	7:15:13	11.3	199	8.68	0.86	9.5
4/26/2007	7:30:13	11.2	202	8.65	0.89	9.8
4/26/2007	7:45:13	11.0	207	8.62	0.90	9.9
4/26/2007	8:00:13	10.9	200	8.59	0.92	10.1
4/26/2007	8:15:13	10.9	202	8.56	0.91	9.9
4/26/2007	8:30:13	10.8	200	8.53	0.91	9.9
4/26/2007	8:45:13	10.7	199	8.48	0.93	10.1
4/26/2007	9:00:13	10.8	197	8.44	0.94	10.2
4/26/2007	9:15:13	10.8	202	8.42	0.98	10.6
4/26/2007	9:30:13	10.8	208	8.37	0.98	10.7
4/26/2007	9:45:13	10.9	197	8.34	1.00	10.9
4/26/2007	10:00:13	11.0	198	8.31	0.97	10.6
4/26/2007	10:15:13	11.1	202	8.28	1.00	11.0
4/26/2007	10:30:13	11.2	204	8.26	1.02	11.2
4/26/2007	10:45:13	11.4	206	8.24	1.01	11.2
4/26/2007	11:00:13	11.5	210	8.22	0.97	10.7
4/26/2007	11:15:13	11.7	210	8.21	0.96	10.7
4/26/2007	11:30:13	11.9	204	8.20	0.95	10.6
4/26/2007	11:45:13	12.1	207	8.19	0.96	10.7
4/26/2007	12:00:13	12.3	201	8.18	0.93	10.4
4/26/2007	12:15:13	12.6	210	8.17	0.90	10.2
4/26/2007	12:30:13	12.8	204	8.17	0.93	10.6
4/26/2007	12:45:13	13.0	210	8.16	0.90	10.3
4/26/2007	13:00:13	13.2	214	8.16	0.86	9.9
4/26/2007	13:15:13	13.4	211	8.16	0.85	9.9
4/26/2007	13:30:13	13.7	214	8.16	0.84	9.7
4/26/2007	13:45:13	14.0	202	8.16	0.78	9.1
4/26/2007	14:00:13	14.2	208	8.16	0.78	9.1
4/26/2007	14:15:13	14.3	203	8.17	0.73	8.6
4/26/2007	14:30:13	14.6	208	8.17	0.72	8.5
4/26/2007	14:45:13	14.8	210	8.17	0.75	8.9
4/26/2007	15:00:13	15.0	208	8.17	0.74	8.9
4/26/2007	15:15:13	15.2	211	8.17	0.73	8.8
4/26/2007	15:30:13	15.5	206	8.17	0.67	8.1
4/26/2007	15:45:13	15.6	198	8.18	0.64	7.7
4/26/2007	16:00:13	15.8	201	8.18	0.66	8.0
4/26/2007	16:15:13	16.0	204	8.18	0.65	7.9
4/26/2007	16:30:13	16.1	205	8.18	0.67	8.2
4/26/2007	16:45:13	16.2	206	8.19	0.66	8.1
4/26/2007	17:00:13	16.3	207	8.19	0.68	8.3

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	17:15:13	16.4	207	8.20	0.60	7.4
4/26/2007	17:30:13	16.5	208	8.20	0.54	6.7
4/26/2007	17:45:13	16.6	208	8.20	0.48	6.0
4/26/2007	18:00:13	16.5	208	8.20	0.40	5.0
4/26/2007	18:15:13	16.5	208	8.20	0.35	4.3
4/26/2007	18:30:13	16.4	208	8.21	0.32	3.9
4/26/2007	18:45:13	16.4	207	8.21	0.29	3.6
4/26/2007	19:00:13	16.3	208	8.21	0.31	3.7
4/26/2007	19:15:13	16.2	208	8.21	0.27	3.3
4/26/2007	19:30:13	16.2	209	8.22	0.24	3.0
4/26/2007	19:45:13	16.1	209	8.22	0.23	2.8
4/26/2007	20:00:13	16.1	209	8.23	0.23	2.8
4/26/2007	20:15:13	16.1	209	8.24	0.24	3.0
4/26/2007	20:30:13	16.0	209	8.25	0.26	3.2
4/26/2007	20:45:13	16.0	209	8.26	0.24	2.9
4/26/2007	21:00:13	16.0	209	8.27	0.23	2.8
4/26/2007	21:15:13	15.9	209	8.28	0.21	2.6
4/26/2007	21:30:13	15.9	209	8.30	0.22	2.7
4/26/2007	21:45:13	15.9	210	8.31	0.25	3.1
4/26/2007	22:00:13	15.9	210	8.33	0.27	3.3
4/26/2007	22:15:13	15.9	208	8.35	0.28	3.4
4/26/2007	22:30:13	15.8	218	8.37	0.27	3.2
4/26/2007	22:45:13	15.8	217	8.39	0.27	3.3
4/26/2007	23:00:13	15.8	220	8.41	0.26	3.2
4/26/2007	23:15:13	15.8	217	8.43	0.29	3.5
4/26/2007	23:30:13	15.7	216	8.45	0.29	3.5
4/26/2007	23:45:13	15.7	206	8.47	0.32	3.9
4/27/2007	0:00:13	15.7	207	8.50	0.35	4.3
4/27/2007	0:15:13	15.7	210	8.52	0.37	4.5
4/27/2007	0:30:13	15.6	211	8.54	0.36	4.4
4/27/2007	0:45:13	15.5	212	8.56	0.36	4.3
4/27/2007	1:00:13	15.5	204	8.58	0.37	4.5
4/27/2007	1:15:13	15.4	207	8.60	0.38	4.6
4/27/2007	1:30:13	15.3	216	8.62	0.39	4.7
4/27/2007	1:45:13	15.2	212	8.63	0.40	4.8
4/27/2007	2:00:13	15.1	216	8.65	0.41	4.9
4/27/2007	2:15:13	14.9	213	8.66	0.40	4.8
4/27/2007	2:30:13	14.8	215	8.68	0.40	4.8
4/27/2007	2:45:13	14.7	209	8.69	0.41	4.9
4/27/2007	3:00:13	14.6	214	8.70	0.43	5.0
4/27/2007	3:15:13	14.5	211	8.71	0.47	5.6
4/27/2007	3:30:13	14.4	213	8.72	0.51	6.0
4/27/2007	3:45:13	14.3	212	8.73	0.59	6.9
4/27/2007	4:00:13	14.1	207	8.73	0.60	7.0
4/27/2007	4:15:13	14.0	212	8.74	0.63	7.3

Table 5.28. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/27/2007	4:30:13	13.9	205	8.74	0.66	7.7
4/27/2007	4:45:13	13.8	198	8.74	0.65	7.6
4/27/2007	5:00:13	13.7	201	8.74	0.65	7.5
4/27/2007	5:15:13	13.6	210	8.74	0.63	7.3
4/27/2007	5:30:13	13.4	207	8.72	0.61	7.0
4/27/2007	5:45:13	13.3	206	8.71	0.57	6.6
4/27/2007	6:00:13	13.2	207	8.69	0.56	6.4
4/27/2007	6:15:13	13.0	204	8.68	0.54	6.2
4/27/2007	6:30:13	12.9	205	8.66	0.57	6.5
4/27/2007	6:45:13	12.7	201	8.64	0.60	6.8
4/27/2007	7:00:13	12.5	203	8.61	0.63	7.1
4/27/2007	7:15:13	12.4	206	8.59	0.67	7.6
4/27/2007	7:30:13	12.2	205	8.57	0.72	8.0
4/27/2007	7:45:13	12.1	208	8.54	0.68	7.6
4/27/2007	8:00:13	12.0	206	8.50	0.70	7.8
4/27/2007	8:15:13	11.9	202	8.46	0.75	8.4
4/27/2007	8:30:13	11.9	210	8.43	0.83	9.2
4/27/2007	8:45:13	11.9	208	8.40	0.87	9.7
4/27/2007	9:00:13	11.9	213	8.37	0.89	9.9
4/27/2007	9:15:13	11.9	206	8.33	0.87	9.7
4/27/2007	9:30:13	11.9	211	8.29	0.87	9.7
4/27/2007	9:45:13	12.0	259	8.26	0.83	9.2
4/27/2007	10:00:13	12.1	257	8.24	1.14	12.7
4/27/2007	10:15:13	12.1	257	8.25	1.24	13.9
4/27/2007	10:30:13	12.2	259	8.24	1.27	14.2
4/27/2007	10:45:13	12.4	257	8.22	1.23	13.8
4/27/2007	11:00:13	12.5	258	8.21	1.27	14.4
4/27/2007	11:15:13	12.7	256	8.20	1.20	13.7
4/27/2007	11:30:13	12.9	256	8.19	1.19	13.5
4/27/2007	11:45:13	13.1	256	8.18	1.10	12.6

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	**Troll 9000 LTS**	
Report generated:	**7/31/2007**	**11:19:04**
Report from file:	**...\part of Site6_4_13_07.bin**	
Win-Situ Version	**4.55.3.0**	
Serial number:	**45473**	
Firmware Version	**1.58**	
Unit name:	**Nike**	
Barometric Pressure:		**626.656**
Test defined on:	**4/13/2007**	**6:51:35**
Test scheduled for:	**4/13/2007**	**10:00:00**
Test started on:	**4/13/2007**	**10:00:00**
Test stopped on:	**4/27/2007**	**12:00:00**
Data gathered using linear testing		
Time between data points	**900 seconds**	
Number of data samples:	**1352**	

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/20/2007	16:00:00	14.6	8.68	103.8
4/20/2007	16:15:00	14.6	8.72	104.4
4/20/2007	16:30:00	14.7	8.70	104.3
4/20/2007	16:45:00	14.7	8.70	104.4
4/20/2007	17:00:00	14.7	8.69	104.2
4/20/2007	17:15:00	14.7	8.67	104.0
4/20/2007	17:30:00	14.7	8.65	103.7
4/20/2007	17:45:00	14.6	8.64	103.3
4/20/2007	18:00:00	14.5	8.62	102.8
4/20/2007	18:15:00	14.4	8.60	102.4
4/20/2007	18:30:00	14.3	8.58	102.1
4/20/2007	18:45:00	14.2	8.57	101.7
4/20/2007	19:00:00	14.1	8.55	101.3
4/20/2007	19:15:00	14.1	8.54	100.9
4/20/2007	19:30:00	14.0	8.52	100.5
4/20/2007	19:45:00	13.9	8.51	100.3
4/20/2007	20:00:00	13.9	8.51	100.1
4/20/2007	20:15:00	13.8	8.50	99.9
4/20/2007	20:30:00	13.8	8.48	99.7
4/20/2007	20:45:00	13.8	8.48	99.6
4/20/2007	21:00:00	13.8	8.47	99.4
4/20/2007	21:15:00	13.7	8.46	99.3
4/20/2007	21:30:00	13.7	8.45	99.2
4/20/2007	21:45:00	13.7	8.44	99.1
4/20/2007	22:00:00	13.8	8.44	99.1
4/20/2007	22:15:00	13.8	8.43	99.0
4/20/2007	22:30:00	13.8	8.42	99.0

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/20/2007	22:45:00	13.8	8.42	98.9
4/20/2007	23:00:00	13.8	8.41	98.9
4/20/2007	23:15:00	13.8	8.41	98.9
4/20/2007	23:30:00	13.8	8.41	98.8
4/20/2007	23:45:00	13.8	8.41	98.8
4/21/2007	0:00:00	13.8	8.41	98.7
4/21/2007	0:15:00	13.8	8.41	98.7
4/21/2007	0:30:00	13.8	8.41	98.7
4/21/2007	0:45:00	13.7	8.40	98.6
4/21/2007	1:00:00	13.7	8.40	98.6
4/21/2007	1:15:00	13.7	8.40	98.5
4/21/2007	1:30:00	13.7	8.40	98.5
4/21/2007	1:45:00	13.7	8.40	98.4
4/21/2007	2:00:00	13.6	8.40	98.4
4/21/2007	2:15:00	13.6	8.40	98.3
4/21/2007	2:30:00	13.6	8.40	98.3
4/21/2007	2:45:00	13.6	8.40	98.3
4/21/2007	3:00:00	13.6	8.39	98.2
4/21/2007	3:15:00	13.6	8.39	98.2
4/21/2007	3:30:00	13.6	8.39	98.2
4/21/2007	3:45:00	13.6	8.39	98.3
4/21/2007	4:00:00	13.6	8.39	98.2
4/21/2007	4:15:00	13.6	8.40	98.2
4/21/2007	4:30:00	13.6	8.40	98.2
4/21/2007	4:45:00	13.6	8.40	98.2
4/21/2007	5:00:00	13.6	8.40	98.2
4/21/2007	5:15:00	13.6	8.40	98.2
4/21/2007	5:30:00	13.5	8.40	98.1
4/21/2007	5:45:00	13.5	8.40	98.1
4/21/2007	6:00:00	13.4	8.41	98.0
4/21/2007	6:15:00	13.4	8.41	98.0
4/21/2007	6:30:00	13.4	8.41	98.0
4/21/2007	6:45:00	13.4	8.42	98.0
4/21/2007	7:00:00	13.3	8.42	98.0
4/21/2007	7:15:00	13.3	8.39	97.5
4/21/2007	7:30:00	13.3	8.19	95.2
4/21/2007	7:45:00	13.3	8.07	93.8
4/21/2007	8:00:00	13.3	7.85	91.3
4/21/2007	8:15:00	13.2	7.60	88.1
4/21/2007	8:30:00	13.2	8.49	98.4
4/21/2007	8:45:00	13.1	8.51	98.5
4/21/2007	9:00:00	13.1	8.53	98.6
4/21/2007	9:15:00	13.0	8.54	98.6
4/21/2007	9:30:00	12.9	8.56	98.7
4/21/2007	9:45:00	12.9	8.59	98.8

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	10:00:00	12.8	8.61	98.8
4/21/2007	10:15:00	12.7	8.63	99.0
4/21/2007	10:30:00	12.7	8.65	99.2
4/21/2007	10:45:00	12.6	8.68	99.4
4/21/2007	11:00:00	12.6	8.70	99.5
4/21/2007	11:15:00	12.5	8.72	99.5
4/21/2007	11:30:00	12.4	8.74	99.5
4/21/2007	11:45:00	12.3	8.76	99.5
4/21/2007	12:00:00	12.2	8.78	99.4
4/21/2007	12:15:00	12.1	8.79	99.5
4/21/2007	12:30:00	12.1	8.81	99.7
4/21/2007	12:45:00	12.1	8.83	99.8
4/21/2007	13:00:00	12.0	8.85	99.9
4/21/2007	13:15:00	12.0	8.86	100.0
4/21/2007	13:30:00	12.1	8.88	100.5
4/21/2007	13:45:00	12.3	8.90	101.0
4/21/2007	14:00:00	12.3	8.90	101.0
4/21/2007	14:15:00	12.1	8.91	100.8
4/21/2007	14:30:00	12.1	8.92	100.9
4/21/2007	14:45:00	12.1	8.93	100.9
4/21/2007	15:00:00	12.0	8.94	100.8
4/21/2007	15:15:00	11.9	8.94	100.6
4/21/2007	15:30:00	11.9	8.96	100.7
4/21/2007	15:45:00	11.8	8.96	100.8
4/21/2007	16:00:00	11.8	8.97	100.7
4/21/2007	16:15:00	11.8	8.98	100.9
4/21/2007	16:30:00	11.9	8.99	101.2
4/21/2007	16:45:00	12.0	9.00	101.5
4/21/2007	17:00:00	11.9	9.00	101.3
4/21/2007	17:15:00	11.8	9.00	101.0
4/21/2007	17:30:00	11.8	9.00	101.2
4/21/2007	17:45:00	11.8	9.01	101.3
4/21/2007	18:00:00	11.8	8.94	100.5
4/21/2007	18:15:00	11.8	8.88	99.8
4/21/2007	18:30:00	11.8	8.82	99.1
4/21/2007	18:45:00	11.8	8.76	98.3
4/21/2007	19:00:00	11.8	8.69	97.6
4/21/2007	19:15:00	11.5	9.00	100.3
4/21/2007	19:30:00	11.4	9.00	100.1
4/21/2007	19:45:00	11.3	9.00	100.0
4/21/2007	20:00:00	11.3	9.00	99.8
4/21/2007	20:15:00	11.2	9.01	99.7
4/21/2007	20:30:00	11.1	9.01	99.5
4/21/2007	20:45:00	11.0	9.02	99.4
4/21/2007	21:00:00	10.9	9.02	99.3

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	21:15:00	10.9	9.03	99.3
4/21/2007	21:30:00	10.8	9.03	99.2
4/21/2007	21:45:00	10.8	9.04	99.1
4/21/2007	22:00:00	10.7	9.04	99.1
4/21/2007	22:15:00	10.7	9.05	99.0
4/21/2007	22:30:00	10.6	9.05	98.9
4/21/2007	22:45:00	10.6	9.06	98.9
4/21/2007	23:00:00	10.6	9.06	98.9
4/21/2007	23:15:00	10.5	9.07	98.9
4/21/2007	23:30:00	10.5	9.07	98.8
4/21/2007	23:45:00	10.5	9.08	98.8
4/22/2007	0:00:00	10.4	9.08	98.8
4/22/2007	0:15:00	10.4	9.09	98.8
4/22/2007	0:30:00	10.4	9.08	98.8
4/22/2007	0:45:00	10.4	9.09	98.7
4/22/2007	1:00:00	10.4	9.09	98.7
4/22/2007	1:15:00	10.3	9.09	98.6
4/22/2007	1:30:00	10.3	9.09	98.6
4/22/2007	1:45:00	10.3	9.10	98.6
4/22/2007	2:00:00	10.3	9.10	98.5
4/22/2007	2:15:00	10.2	9.10	98.5
4/22/2007	2:30:00	10.2	9.10	98.5
4/22/2007	2:45:00	10.2	9.10	98.4
4/22/2007	3:00:00	10.2	9.10	98.4
4/22/2007	3:15:00	10.2	9.10	98.4
4/22/2007	3:30:00	10.1	9.10	98.3
4/22/2007	3:45:00	10.1	9.10	98.3
4/22/2007	4:00:00	10.1	9.11	98.3
4/22/2007	4:15:00	10.1	9.11	98.3
4/22/2007	4:30:00	10.1	9.12	98.3
4/22/2007	4:45:00	10.0	9.12	98.3
4/22/2007	5:00:00	10.0	9.13	98.3
4/22/2007	5:15:00	10.0	9.13	98.2
4/22/2007	5:30:00	9.9	9.13	98.2
4/22/2007	5:45:00	9.9	9.14	98.2
4/22/2007	6:00:00	9.9	9.14	98.2
4/22/2007	6:15:00	9.8	9.15	98.1
4/22/2007	6:30:00	9.8	9.16	98.1
4/22/2007	6:45:00	9.8	9.16	98.2
4/22/2007	7:00:00	9.7	9.17	98.2
4/22/2007	7:15:00	9.7	9.18	98.2
4/22/2007	7:30:00	9.7	9.19	98.3
4/22/2007	7:45:00	9.7	9.21	98.4
4/22/2007	8:00:00	9.7	9.22	98.6
4/22/2007	8:15:00	9.8	9.24	98.9

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	8:30:00	9.8	9.25	99.2
4/22/2007	8:45:00	9.9	9.26	99.5
4/22/2007	9:00:00	10.0	9.28	99.9
4/22/2007	9:15:00	10.1	9.29	100.3
4/22/2007	9:30:00	10.2	9.30	100.6
4/22/2007	9:45:00	10.3	9.31	101.0
4/22/2007	10:00:00	10.4	9.32	101.4
4/22/2007	10:15:00	10.6	9.32	101.8
4/22/2007	10:30:00	10.8	9.32	102.2
4/22/2007	10:45:00	10.9	9.33	102.6
4/22/2007	11:00:00	11.1	9.32	103.0
4/22/2007	11:15:00	11.3	9.32	103.4
4/22/2007	11:30:00	11.5	9.31	103.8
4/22/2007	11:45:00	11.7	9.31	104.2
4/22/2007	12:00:00	11.9	9.30	104.6
4/22/2007	12:15:00	12.1	9.29	105.1
4/22/2007	12:30:00	12.3	9.28	105.4
4/22/2007	12:45:00	12.5	9.26	105.8
4/22/2007	13:00:00	12.7	9.25	106.1
4/22/2007	13:15:00	12.9	9.23	106.3
4/22/2007	13:30:00	13.1	9.21	106.5
4/22/2007	13:45:00	13.2	9.19	106.7
4/22/2007	14:00:00	13.4	9.17	106.9
4/22/2007	14:15:00	13.6	9.16	107.1
4/22/2007	14:30:00	13.7	9.14	107.3
4/22/2007	14:45:00	13.8	9.13	107.3
4/22/2007	15:00:00	13.9	9.11	107.2
4/22/2007	15:15:00	13.9	9.09	107.1
4/22/2007	15:30:00	13.9	9.08	106.9
4/22/2007	15:45:00	13.9	9.06	106.8
4/22/2007	16:00:00	14.0	9.04	106.7
4/22/2007	16:15:00	14.0	9.02	106.5
4/22/2007	16:30:00	14.0	9.00	106.2
4/22/2007	16:45:00	14.1	8.98	106.2
4/22/2007	17:00:00	14.2	8.95	106.1
4/22/2007	17:15:00	14.2	8.93	105.9
4/22/2007	17:30:00	14.2	8.91	105.6
4/22/2007	17:45:00	14.2	8.89	105.5
4/22/2007	18:00:00	14.2	8.87	105.2
4/22/2007	18:15:00	14.2	8.85	105.0
4/22/2007	18:30:00	14.2	8.83	104.7
4/22/2007	18:45:00	14.2	8.81	104.4
4/22/2007	19:00:00	14.1	8.79	103.9
4/22/2007	19:15:00	14.0	8.77	103.5
4/22/2007	19:30:00	13.9	8.75	103.1

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	19:45:00	13.9	8.73	102.8
4/22/2007	20:00:00	13.8	8.72	102.4
4/22/2007	20:15:00	13.7	8.70	102.0
4/22/2007	20:30:00	13.6	8.69	101.7
4/22/2007	20:45:00	13.6	8.68	101.5
4/22/2007	21:00:00	13.5	8.66	101.2
4/22/2007	21:15:00	13.5	8.65	101.0
4/22/2007	21:30:00	13.4	8.64	100.8
4/22/2007	21:45:00	13.4	8.64	100.6
4/22/2007	22:00:00	13.4	8.63	100.4
4/22/2007	22:15:00	13.3	8.62	100.2
4/22/2007	22:30:00	13.3	8.61	100.1
4/22/2007	22:45:00	13.3	8.60	99.9
4/22/2007	23:00:00	13.2	8.60	99.8
4/22/2007	23:15:00	13.2	8.59	99.7
4/22/2007	23:30:00	13.2	8.59	99.6
4/22/2007	23:45:00	13.2	8.58	99.5
4/23/2007	0:00:00	13.2	8.58	99.4
4/23/2007	0:15:00	13.2	8.58	99.4
4/23/2007	0:30:00	13.2	8.58	99.4
4/23/2007	0:45:00	13.2	8.58	99.3
4/23/2007	1:00:00	13.1	8.58	99.3
4/23/2007	1:15:00	13.1	8.57	99.3
4/23/2007	1:30:00	13.1	8.58	99.3
4/23/2007	1:45:00	13.1	8.58	99.2
4/23/2007	2:00:00	13.1	8.58	99.2
4/23/2007	2:15:00	13.1	8.58	99.2
4/23/2007	2:30:00	13.1	8.58	99.2
4/23/2007	2:45:00	13.1	8.57	99.1
4/23/2007	3:00:00	13.1	8.57	99.1
4/23/2007	3:15:00	13.1	8.57	99.1
4/23/2007	3:30:00	13.1	8.57	99.1
4/23/2007	3:45:00	13.1	8.57	99.0
4/23/2007	4:00:00	13.1	8.56	99.0
4/23/2007	4:15:00	13.1	8.56	99.0
4/23/2007	4:30:00	13.1	8.56	99.0
4/23/2007	4:45:00	13.0	8.56	98.9
4/23/2007	5:00:00	13.0	8.57	98.9
4/23/2007	5:15:00	13.0	8.57	98.8
4/23/2007	5:30:00	12.9	8.57	98.7
4/23/2007	5:45:00	12.9	8.57	98.6
4/23/2007	6:00:00	12.8	8.57	98.6
4/23/2007	6:15:00	12.8	8.57	98.5
4/23/2007	6:30:00	12.7	8.58	98.4
4/23/2007	6:45:00	12.7	8.58	98.4

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	7:00:00	12.6	8.59	98.3
4/23/2007	7:15:00	12.6	8.60	98.4
4/23/2007	7:30:00	12.6	8.61	98.4
4/23/2007	7:45:00	12.6	8.62	98.5
4/23/2007	8:00:00	12.6	8.63	98.7
4/23/2007	8:15:00	12.6	8.65	98.9
4/23/2007	8:30:00	12.7	8.66	99.2
4/23/2007	8:45:00	12.7	8.67	99.4
4/23/2007	9:00:00	12.8	8.69	99.7
4/23/2007	9:15:00	12.9	8.70	100.1
4/23/2007	9:30:00	12.9	8.71	100.5
4/23/2007	9:45:00	13.0	8.72	100.6
4/23/2007	10:00:00	13.0	8.73	100.9
4/23/2007	10:15:00	13.1	8.74	101.2
4/23/2007	10:30:00	13.2	8.75	101.5
4/23/2007	10:45:00	13.3	8.76	101.8
4/23/2007	11:00:00	13.4	8.77	102.3
4/23/2007	11:15:00	13.6	8.78	102.6
4/23/2007	11:30:00	13.7	8.78	103.0
4/23/2007	11:45:00	13.8	8.79	103.3
4/23/2007	12:00:00	13.9	8.79	103.6
4/23/2007	12:15:00	14.1	8.79	103.9
4/23/2007	12:30:00	14.2	8.79	104.3
4/23/2007	12:45:00	14.4	8.79	104.7
4/23/2007	13:00:00	14.5	8.78	104.9
4/23/2007	13:15:00	14.6	8.77	105.0
4/23/2007	13:30:00	14.6	8.77	105.0
4/23/2007	13:45:00	14.7	8.77	105.1
4/23/2007	14:00:00	14.7	8.77	105.1
4/23/2007	14:15:00	14.7	8.76	105.0
4/23/2007	14:30:00	14.7	8.74	104.8
4/23/2007	14:45:00	14.7	8.75	104.9
4/23/2007	15:00:00	14.7	8.75	104.8
4/23/2007	15:15:00	14.7	8.74	104.7
4/23/2007	15:30:00	14.6	8.73	104.6
4/23/2007	15:45:00	14.6	8.72	104.3
4/23/2007	16:00:00	14.5	8.71	104.0
4/23/2007	16:15:00	14.5	8.71	103.9
4/23/2007	16:30:00	14.4	8.70	103.7
4/23/2007	16:45:00	14.3	8.70	103.3
4/23/2007	17:00:00	14.2	8.69	103.0
4/23/2007	17:15:00	14.1	8.69	102.7
4/23/2007	17:30:00	13.9	8.68	102.3
4/23/2007	17:45:00	13.9	8.68	102.2
4/23/2007	18:00:00	13.8	8.67	101.9

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	18:15:00	13.7	8.67	101.7
4/23/2007	18:30:00	13.7	8.66	101.6
4/23/2007	18:45:00	13.7	8.65	101.4
4/23/2007	19:00:00	13.7	8.63	101.2
4/23/2007	19:15:00	13.7	8.62	101.0
4/23/2007	19:30:00	13.6	8.61	100.8
4/23/2007	19:45:00	13.6	8.60	100.6
4/23/2007	20:00:00	13.5	8.59	100.4
4/23/2007	20:15:00	13.5	8.58	100.2
4/23/2007	20:30:00	13.5	8.58	100.1
4/23/2007	20:45:00	13.4	8.58	99.9
4/23/2007	21:00:00	13.4	8.58	99.8
4/23/2007	21:15:00	13.3	8.57	99.7
4/23/2007	21:30:00	13.2	8.58	99.6
4/23/2007	21:45:00	13.2	8.58	99.4
4/23/2007	22:00:00	13.1	8.59	99.3
4/23/2007	22:15:00	13.0	8.60	99.3
4/23/2007	22:30:00	13.0	8.61	99.3
4/23/2007	22:45:00	12.9	8.61	99.2
4/23/2007	23:00:00	12.8	8.62	99.1
4/23/2007	23:15:00	12.8	8.62	99.1
4/23/2007	23:30:00	12.8	8.63	99.1
4/23/2007	23:45:00	12.7	8.64	99.0
4/24/2007	0:00:00	12.7	8.64	99.0
4/24/2007	0:15:00	12.6	8.64	99.0
4/24/2007	0:30:00	12.6	8.63	98.8
4/24/2007	0:45:00	12.6	8.53	97.7
4/24/2007	1:00:00	12.6	8.40	96.0
4/24/2007	1:15:00	12.6	8.28	94.7
4/24/2007	1:30:00	12.6	8.22	93.9
4/24/2007	1:45:00	12.5	8.11	92.6
4/24/2007	2:00:00	12.5	8.20	93.6
4/24/2007	2:15:00	12.5	8.20	93.6
4/24/2007	2:30:00	12.3	8.63	98.1
4/24/2007	2:45:00	12.2	8.68	98.5
4/24/2007	3:00:00	12.2	8.66	98.2
4/24/2007	3:15:00	12.2	8.57	97.2
4/24/2007	3:30:00	12.2	8.48	96.2
4/24/2007	3:45:00	12.2	8.40	95.3
4/24/2007	4:00:00	12.2	8.32	94.4
4/24/2007	4:15:00	12.2	8.23	93.3
4/24/2007	4:30:00	12.2	8.14	92.2
4/24/2007	4:45:00	12.2	8.04	91.1
4/24/2007	5:00:00	12.1	7.95	90.1
4/24/2007	5:15:00	12.1	7.83	88.6

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	5:30:00	12.1	7.71	87.1
4/24/2007	5:45:00	12.0	7.66	86.4
4/24/2007	6:00:00	12.0	7.62	86.0
4/24/2007	6:15:00	11.9	7.58	85.4
4/24/2007	6:30:00	11.9	7.56	85.0
4/24/2007	6:45:00	11.8	7.55	84.7
4/24/2007	7:00:00	11.7	7.53	84.5
4/24/2007	7:15:00	11.7	7.53	84.4
4/24/2007	7:30:00	11.6	7.52	84.1
4/24/2007	7:45:00	11.6	7.50	83.9
4/24/2007	8:00:00	11.6	7.50	83.7
4/24/2007	8:15:00	11.4	7.52	83.7
4/24/2007	8:30:00	11.3	7.56	84.0
4/24/2007	8:45:00	11.2	8.78	97.1
4/24/2007	9:00:00	11.1	8.76	96.9
4/24/2007	9:15:00	11.1	8.90	98.4
4/24/2007	9:30:00	11.2	8.92	98.8
4/24/2007	9:45:00	11.2	8.94	99.1
4/24/2007	10:00:00	11.3	8.95	99.3
4/24/2007	10:15:00	11.3	8.86	98.3
4/24/2007	10:30:00	11.3	8.76	97.3
4/24/2007	10:45:00	11.3	8.68	96.4
4/24/2007	11:00:00	11.3	8.61	95.6
4/24/2007	11:15:00	11.3	8.54	94.8
4/24/2007	11:30:00	11.3	8.47	94.1
4/24/2007	11:45:00	11.3	8.41	93.4
4/24/2007	12:00:00	11.3	8.35	92.7
4/24/2007	12:15:00	11.3	8.28	92.1
4/24/2007	12:30:00	11.5	8.16	91.1
4/24/2007	12:45:00	11.5	9.07	101.3
4/24/2007	13:00:00	11.4	9.07	101.1
4/24/2007	13:15:00	11.4	9.08	100.9
4/24/2007	13:30:00	11.4	9.04	100.5
4/24/2007	13:45:00	11.3	8.93	99.2
4/24/2007	14:00:00	11.3	8.84	98.3
4/24/2007	14:15:00	11.4	8.78	97.6
4/24/2007	14:30:00	11.3	8.73	97.0
4/24/2007	14:45:00	11.3	8.69	96.5
4/24/2007	15:00:00	11.3	8.64	96.0
4/24/2007	15:15:00	11.3	8.58	95.3
4/24/2007	15:30:00	11.3	9.18	102.0
4/24/2007	15:45:00	11.3	9.18	102.1
4/24/2007	16:00:00	11.4	9.19	102.2
4/24/2007	16:15:00	11.4	9.19	102.2
4/24/2007	16:30:00	11.4	9.19	102.3

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	16:45:00	11.4	9.18	102.3
4/24/2007	17:00:00	11.5	9.18	102.3
4/24/2007	17:15:00	11.6	9.17	102.5
4/24/2007	17:30:00	11.6	9.15	102.4
4/24/2007	17:45:00	11.6	9.15	102.3
4/24/2007	18:00:00	11.7	9.13	102.2
4/24/2007	18:15:00	11.6	9.13	102.2
4/24/2007	18:30:00	11.6	9.13	102.1
4/24/2007	18:45:00	11.6	9.13	101.9
4/24/2007	19:00:00	11.6	9.10	101.6
4/24/2007	19:15:00	11.5	9.02	100.7
4/24/2007	19:30:00	11.5	8.93	99.7
4/24/2007	19:45:00	11.5	8.85	98.8
4/24/2007	20:00:00	11.5	8.77	97.9
4/24/2007	20:15:00	11.5	8.67	96.8
4/24/2007	20:30:00	11.5	8.58	95.8
4/24/2007	20:45:00	11.5	8.48	94.6
4/24/2007	21:00:00	11.5	8.37	93.4
4/24/2007	21:15:00	11.5	8.26	92.2
4/24/2007	21:30:00	11.5	8.16	91.0
4/24/2007	21:45:00	11.5	8.06	89.9
4/24/2007	22:00:00	11.5	7.98	89.0
4/24/2007	22:15:00	11.5	7.92	88.3
4/24/2007	22:30:00	11.5	7.89	88.0
4/24/2007	22:45:00	11.5	7.87	87.8
4/24/2007	23:00:00	11.5	7.86	87.7
4/24/2007	23:15:00	11.5	7.85	87.6
4/24/2007	23:30:00	11.5	7.84	87.4
4/24/2007	23:45:00	11.5	7.82	87.3
4/25/2007	0:00:00	11.5	7.81	87.1
4/25/2007	0:15:00	11.5	7.79	86.9
4/25/2007	0:30:00	11.5	7.76	86.6
4/25/2007	0:45:00	11.5	7.73	86.2
4/25/2007	1:00:00	11.5	7.69	85.8
4/25/2007	1:15:00	11.5	7.64	85.3
4/25/2007	1:30:00	11.5	7.59	84.6
4/25/2007	1:45:00	11.5	7.51	83.6
4/25/2007	2:00:00	11.4	7.43	82.7
4/25/2007	2:15:00	11.4	7.37	82.1
4/25/2007	2:30:00	11.4	7.35	81.7
4/25/2007	2:45:00	11.4	7.33	81.5
4/25/2007	3:00:00	11.4	7.33	81.4
4/25/2007	3:15:00	11.3	7.32	81.3
4/25/2007	3:30:00	11.3	7.32	81.3
4/25/2007	3:45:00	11.2	7.32	81.2

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	4:00:00	11.2	7.31	81.0
4/25/2007	4:15:00	11.2	7.28	80.6
4/25/2007	4:30:00	11.1	7.26	80.3
4/25/2007	4:45:00	11.1	7.26	80.2
4/25/2007	5:00:00	11.1	7.27	80.3
4/25/2007	5:15:00	11.0	7.29	80.5
4/25/2007	5:30:00	11.0	7.31	80.6
4/25/2007	5:45:00	11.0	7.33	80.8
4/25/2007	6:00:00	11.0	7.34	80.8
4/25/2007	6:15:00	10.9	7.36	81.0
4/25/2007	6:30:00	10.9	7.38	81.2
4/25/2007	6:45:00	10.9	7.39	81.3
4/25/2007	7:00:00	10.9	7.39	81.2
4/25/2007	7:15:00	10.9	7.38	81.1
4/25/2007	7:30:00	10.8	7.37	80.9
4/25/2007	7:45:00	10.8	7.36	80.8
4/25/2007	8:00:00	10.8	7.36	80.7
4/25/2007	8:15:00	10.8	7.34	80.5
4/25/2007	8:30:00	10.8	7.32	80.3
4/25/2007	8:45:00	10.8	7.31	80.1
4/25/2007	9:00:00	10.8	7.30	80.1
4/25/2007	9:15:00	10.7	7.31	80.1
4/25/2007	9:30:00	10.7	7.31	80.1
4/25/2007	9:45:00	10.7	7.30	80.0
4/25/2007	10:00:00	10.7	7.28	79.7
4/25/2007	10:15:00	10.7	7.24	79.2
4/25/2007	10:30:00	10.7	7.20	78.7
4/25/2007	10:45:00	10.7	7.15	78.3
4/25/2007	11:00:00	10.7	7.13	77.9
4/25/2007	11:15:00	10.6	7.11	77.7
4/25/2007	11:30:00	10.7	7.09	77.6
4/25/2007	11:45:00	10.7	7.07	77.3
4/25/2007	12:00:00	10.7	7.04	77.1
4/25/2007	12:15:00	10.7	7.02	76.9
4/25/2007	12:30:00	10.7	6.99	76.6
4/25/2007	12:45:00	10.8	6.95	76.3
4/25/2007	13:00:00	10.8	6.91	75.9
4/25/2007	13:15:00	10.9	6.88	75.7
4/25/2007	13:30:00	11.0	6.88	75.8
4/25/2007	13:45:00	11.1	6.93	76.5
4/25/2007	14:00:00	11.2	6.99	77.3
4/25/2007	14:15:00	11.3	7.03	78.0
4/25/2007	14:30:00	11.4	7.06	78.6
4/25/2007	14:45:00	11.5	7.08	79.0
4/25/2007	15:00:00	11.6	7.09	79.3

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	15:15:00	11.7	7.08	79.4
4/25/2007	15:30:00	11.8	7.06	79.3
4/25/2007	15:45:00	12.0	7.01	79.0
4/25/2007	16:00:00	12.1	6.95	78.7
4/25/2007	16:15:00	12.3	6.88	78.1
4/25/2007	16:30:00	12.5	6.77	77.3
4/25/2007	16:45:00	12.8	6.69	76.9
4/25/2007	17:00:00	12.9	6.66	76.7
4/25/2007	17:15:00	13.2	6.62	76.7
4/25/2007	17:30:00	13.4	6.60	76.9
4/25/2007	17:45:00	13.7	6.60	77.4
4/25/2007	18:00:00	14.0	6.60	77.9
4/25/2007	18:15:00	14.2	6.59	78.2
4/25/2007	18:30:00	14.5	6.58	78.5
4/25/2007	18:45:00	14.7	6.57	78.7
4/25/2007	19:00:00	14.9	6.55	78.9
4/25/2007	19:15:00	15.0	6.56	79.1
4/25/2007	19:30:00	15.1	6.57	79.4
4/25/2007	19:45:00	15.2	6.56	79.5
4/25/2007	20:00:00	15.3	6.52	79.2
4/25/2007	20:15:00	15.4	6.46	78.7
4/25/2007	20:30:00	15.5	6.38	77.9
4/25/2007	20:45:00	15.6	6.29	77.0
4/25/2007	21:00:00	15.7	6.20	75.9
4/25/2007	21:15:00	15.7	6.08	74.6
4/25/2007	21:30:00	15.8	5.99	73.5
4/25/2007	21:45:00	15.8	5.93	72.7
4/25/2007	22:00:00	15.8	5.90	72.5
4/25/2007	22:15:00	15.8	5.89	72.4
4/25/2007	22:30:00	15.9	5.89	72.4
4/25/2007	22:45:00	15.9	5.88	72.3
4/25/2007	23:00:00	15.9	5.87	72.2
4/25/2007	23:15:00	15.9	5.82	71.5
4/25/2007	23:30:00	15.8	5.74	70.5
4/25/2007	23:45:00	15.8	5.71	70.2
4/26/2007	0:00:00	15.8	5.69	69.9
4/26/2007	0:15:00	15.7	5.65	69.3
4/26/2007	0:30:00	15.6	5.57	68.1
4/26/2007	0:45:00	15.6	5.49	67.1
4/26/2007	1:00:00	15.5	5.48	66.8
4/26/2007	1:15:00	15.4	5.51	67.1
4/26/2007	1:30:00	15.3	5.60	68.0
4/26/2007	1:45:00	15.2	5.69	69.0
4/26/2007	2:00:00	15.1	5.79	70.0
4/26/2007	2:15:00	15.0	5.86	70.8

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	2:30:00	15.0	5.90	71.2
4/26/2007	2:45:00	14.9	5.91	71.2
4/26/2007	3:00:00	14.9	5.91	71.1
4/26/2007	3:15:00	14.8	5.90	70.9
4/26/2007	3:30:00	14.8	5.90	70.9
4/26/2007	3:45:00	14.8	5.91	70.9
4/26/2007	4:00:00	14.7	5.91	70.9
4/26/2007	4:15:00	14.7	5.92	70.9
4/26/2007	4:30:00	14.6	5.93	70.9
4/26/2007	4:45:00	14.6	5.91	70.7
4/26/2007	5:00:00	14.5	5.89	70.3
4/26/2007	5:15:00	14.5	5.86	70.0
4/26/2007	5:30:00	14.5	5.84	69.7
4/26/2007	5:45:00	14.4	5.83	69.5
4/26/2007	6:00:00	14.4	5.81	69.2
4/26/2007	6:15:00	14.4	5.77	68.7
4/26/2007	6:30:00	14.3	5.72	68.0
4/26/2007	6:45:00	14.3	5.65	67.2
4/26/2007	7:00:00	14.3	5.60	66.5
4/26/2007	7:15:00	14.2	5.57	66.1
4/26/2007	7:30:00	14.2	5.55	65.8
4/26/2007	7:45:00	14.2	5.55	65.8
4/26/2007	8:00:00	14.1	5.58	66.0
4/26/2007	8:15:00	14.1	5.60	66.3
4/26/2007	8:30:00	14.1	5.61	66.3
4/26/2007	8:45:00	14.0	5.60	66.1
4/26/2007	9:00:00	14.0	5.60	66.1
4/26/2007	9:15:00	13.9	5.68	66.9
4/26/2007	9:30:00	13.8	5.75	67.6
4/26/2007	9:45:00	13.8	5.79	68.0
4/26/2007	10:00:00	13.8	5.79	68.1
4/26/2007	10:15:00	13.7	5.80	68.0
4/26/2007	10:30:00	13.7	5.79	67.8
4/26/2007	10:45:00	13.6	5.76	67.5
4/26/2007	11:00:00	13.5	5.73	66.9
4/26/2007	11:15:00	13.5	5.69	66.4
4/26/2007	11:30:00	13.5	5.67	66.2
4/26/2007	11:45:00	13.6	5.68	66.4
4/26/2007	12:00:00	13.6	5.70	66.7
4/26/2007	12:15:00	13.7	5.72	67.1
4/26/2007	12:30:00	13.8	5.74	67.5
4/26/2007	12:45:00	13.9	5.77	68.0
4/26/2007	13:00:00	14.0	5.82	68.7
4/26/2007	13:15:00	14.1	5.90	69.7
4/26/2007	13:30:00	14.1	6.00	71.1

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	13:45:00	14.2	6.10	72.4
4/26/2007	14:00:00	14.3	6.18	73.4
4/26/2007	14:15:00	14.3	6.22	74.0
4/26/2007	14:30:00	14.4	6.23	74.1
4/26/2007	14:45:00	14.4	6.22	74.0
4/26/2007	15:00:00	14.4	6.18	73.6
4/26/2007	15:15:00	14.5	6.14	73.2
4/26/2007	15:30:00	14.5	6.08	72.6
4/26/2007	15:45:00	14.6	6.01	71.8
4/26/2007	16:00:00	14.6	5.94	71.1
4/26/2007	16:15:00	14.7	5.85	70.1
4/26/2007	16:30:00	14.7	5.74	68.8
4/26/2007	16:45:00	14.8	5.64	67.8
4/26/2007	17:00:00	14.9	5.57	67.0
4/26/2007	17:15:00	14.9	5.47	66.0
4/26/2007	17:30:00	15.0	5.39	65.0
4/26/2007	17:45:00	15.1	5.31	64.2
4/26/2007	18:00:00	15.2	5.24	63.5
4/26/2007	18:15:00	15.3	5.17	62.8
4/26/2007	18:30:00	15.4	5.11	62.2
4/26/2007	18:45:00	15.5	5.06	61.8
4/26/2007	19:00:00	15.6	5.05	61.7
4/26/2007	19:15:00	15.7	5.03	61.7
4/26/2007	19:30:00	15.8	5.02	61.6
4/26/2007	19:45:00	15.9	4.97	61.2
4/26/2007	20:00:00	16.1	4.94	61.0
4/26/2007	20:15:00	16.2	4.94	61.1
4/26/2007	20:30:00	16.3	4.96	61.5
4/26/2007	20:45:00	16.4	4.97	61.8
4/26/2007	21:00:00	16.4	4.98	62.0
4/26/2007	21:15:00	16.5	4.97	61.9
4/26/2007	21:30:00	16.5	4.93	61.5
4/26/2007	21:45:00	16.6	4.90	61.1
4/26/2007	22:00:00	16.6	4.86	60.6
4/26/2007	22:15:00	16.6	4.84	60.5
4/26/2007	22:30:00	16.6	4.82	60.2
4/26/2007	22:45:00	16.6	4.77	59.7
4/26/2007	23:00:00	16.6	4.72	59.0
4/26/2007	23:15:00	16.6	4.69	58.6
4/26/2007	23:30:00	16.6	4.70	58.7
4/26/2007	23:45:00	16.5	4.72	58.9
4/27/2007	0:00:00	16.5	4.71	58.7
4/27/2007	0:15:00	16.5	4.72	58.8
4/27/2007	0:30:00	16.4	4.75	59.0
4/27/2007	0:45:00	16.3	4.79	59.5

Table 5.29. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/27/2007	1:00:00	16.3	4.82	59.8
4/27/2007	1:15:00	16.3	4.83	59.9
4/27/2007	1:30:00	16.2	4.82	59.8
4/27/2007	1:45:00	16.2	4.81	59.6
4/27/2007	2:00:00	16.1	4.81	59.5
4/27/2007	2:15:00	16.1	4.81	59.4
4/27/2007	2:30:00	16.0	4.80	59.2
4/27/2007	2:45:00	16.0	4.78	59.0
4/27/2007	3:00:00	16.0	4.77	58.9
4/27/2007	3:15:00	16.0	4.76	58.7
4/27/2007	3:30:00	15.9	4.77	58.8
4/27/2007	3:45:00	15.9	4.78	58.8
4/27/2007	4:00:00	15.9	4.78	58.8
4/27/2007	4:15:00	15.8	4.78	58.8
4/27/2007	4:30:00	15.8	4.79	58.8
4/27/2007	4:45:00	15.8	4.80	58.9
4/27/2007	5:00:00	15.8	4.80	58.9
4/27/2007	5:15:00	15.7	4.80	58.8
4/27/2007	5:30:00	15.7	4.79	58.7
4/27/2007	5:45:00	15.7	4.78	58.5
4/27/2007	6:00:00	15.6	4.77	58.4
4/27/2007	6:15:00	15.6	4.75	58.1
4/27/2007	6:30:00	15.5	4.74	57.8
4/27/2007	6:45:00	15.5	4.74	57.8
4/27/2007	7:00:00	15.5	4.77	58.2
4/27/2007	7:15:00	15.4	4.82	58.7
4/27/2007	7:30:00	15.4	4.87	59.2
4/27/2007	7:45:00	15.4	4.90	59.6
4/27/2007	8:00:00	15.3	4.90	59.6
4/27/2007	8:15:00	15.3	4.89	59.3
4/27/2007	8:30:00	15.2	4.86	58.9
4/27/2007	8:45:00	15.2	4.83	58.6
4/27/2007	9:00:00	15.1	4.82	58.3
4/27/2007	9:15:00	15.1	4.81	58.2
4/27/2007	9:30:00	15.0	4.81	58.0
4/27/2007	9:45:00	15.0	4.78	57.6
4/27/2007	10:00:00	14.9	4.73	57.0
4/27/2007	10:15:00	14.9	4.66	56.1
4/27/2007	10:30:00	14.8	4.58	55.1
4/27/2007	10:45:00	14.7	4.53	54.3
4/27/2007	11:00:00	14.7	4.48	53.6
4/27/2007	11:15:00	14.6	4.36	52.2

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**Site 2-4-20-2007**
Setup	**Date**	**(MMDDYY)**	**:**	**4/20/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**16:00:00**
Starting	**Date**	**(MMDDYY)**	**:**	**4/20/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**16:02:10**
Stopping	**Date**	**(MMDDYY)**	**:**	**4/27/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**11:45**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
4/20/2007	16:32:10	14.6	195	8.22	8.44	99.9
4/20/2007	16:47:10	14.6	161	8.21	8.43	99.8
4/20/2007	17:02:10	14.6	153	8.21	8.34	98.7
4/20/2007	17:17:10	14.6	154	8.21	8.32	98.4
4/20/2007	17:32:10	14.6	150	8.21	8.32	98.3
4/20/2007	17:47:10	14.5	142	8.21	8.29	97.8
4/20/2007	18:02:10	14.4	148	8.21	8.22	96.8
4/20/2007	18:17:10	14.3	161	8.20	8.23	96.7
4/20/2007	18:32:10	14.2	173	8.20	7.64	89.6
4/20/2007	18:47:10	14.1	201	8.19	8.36	98.0
4/20/2007	19:02:10	14.1	188	8.20	8.33	97.4
4/20/2007	19:17:10	14.0	224	8.21	8.35	97.4
4/20/2007	19:32:10	13.9	238	8.21	8.30	96.7
4/20/2007	19:47:10	13.8	246	8.20	8.28	96.3
4/20/2007	20:02:10	13.8	243	8.21	8.24	95.7
4/20/2007	20:17:10	13.7	244	8.21	8.17	94.8
4/20/2007	20:32:10	13.7	200	8.21	8.17	94.8
4/20/2007	20:47:10	13.7	164	8.22	8.21	95.2
4/20/2007	21:02:10	13.7	153	8.22	8.06	93.4
4/20/2007	21:17:10	13.7	167	8.22	7.86	91.1
4/20/2007	21:32:10	13.7	243	8.22	7.92	91.8
4/20/2007	21:47:10	13.7	243	8.22	7.88	91.4
4/20/2007	22:02:10	13.7	242	8.22	7.95	92.2
4/20/2007	22:17:10	13.7	228	8.23	8.03	93.1
4/20/2007	22:32:10	13.7	160	8.23	8.01	93.0
4/20/2007	22:47:10	13.7	164	8.24	8.05	93.4
4/20/2007	23:02:10	13.7	167	8.24	8.00	92.8
4/20/2007	23:17:10	13.7	172	8.24	8.08	93.7
4/20/2007	23:32:10	13.7	185	8.25	8.03	93.2
4/20/2007	23:47:10	13.7	185	8.25	7.99	92.7
4/21/2007	0:02:10	13.7	168	8.25	7.98	92.5
4/21/2007	0:17:10	13.7	166	8.26	8.01	92.9

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	0:32:10	13.7	175	8.27	8.06	93.5
4/21/2007	0:47:10	13.7	164	8.27	8.01	92.8
4/21/2007	1:02:10	13.7	180	8.28	7.99	92.6
4/21/2007	1:17:10	13.6	184	8.29	7.95	92.1
4/21/2007	1:32:10	13.6	167	8.30	7.94	91.8
4/21/2007	1:47:10	13.6	174	8.31	7.95	92.0
4/21/2007	2:02:10	13.6	173	8.32	7.96	92.1
4/21/2007	2:17:10	13.6	180	8.33	7.91	91.4
4/21/2007	2:32:10	13.5	173	8.35	7.98	92.3
4/21/2007	2:47:10	13.5	171	8.37	7.96	92.0
4/21/2007	3:02:10	13.5	179	8.39	7.99	92.4
4/21/2007	3:17:10	13.5	173	8.41	7.96	92.0
4/21/2007	3:32:10	13.5	186	8.43	7.96	92.0
4/21/2007	3:47:10	13.5	170	8.45	7.92	91.5
4/21/2007	4:02:10	13.5	167	8.47	7.92	91.5
4/21/2007	4:17:10	13.5	173	8.49	7.94	91.7
4/21/2007	4:32:10	13.5	174	8.51	7.89	91.2
4/21/2007	4:47:10	13.5	191	8.53	7.93	91.6
4/21/2007	5:02:10	13.5	174	8.56	8.00	92.3
4/21/2007	5:17:10	13.5	179	8.58	7.97	91.9
4/21/2007	5:32:10	13.4	179	8.60	7.95	91.7
4/21/2007	5:47:10	13.4	185	8.63	7.93	91.3
4/21/2007	6:02:10	13.4	196	8.65	7.98	91.9
4/21/2007	6:17:10	13.3	181	8.67	7.90	90.9
4/21/2007	6:32:10	13.3	172	8.68	7.97	91.6
4/21/2007	6:47:10	13.3	181	8.70	7.93	91.1
4/21/2007	7:02:10	13.2	183	8.72	7.92	90.9
4/21/2007	7:17:10	13.2	166	8.72	7.95	91.2
4/21/2007	7:32:10	13.2	134	8.73	7.96	91.3
4/21/2007	7:47:10	13.2	141	8.74	7.89	90.4
4/21/2007	8:02:10	13.1	113	8.73	5.33	61.0
4/21/2007	8:17:10	13.1	111	8.70	5.16	59.0
4/21/2007	8:32:10	13.1	110	8.65	4.82	55.1
4/21/2007	8:47:10	13.1	110	8.62	4.90	56.0
4/21/2007	9:02:10	13.0	109	8.65	5.04	57.6
4/21/2007	9:17:10	12.9	109	8.70	5.79	65.9
4/21/2007	9:32:10	12.9	135	8.71	5.40	61.4
4/21/2007	9:47:10	12.8	147	8.72	7.44	84.5
4/21/2007	10:02:10	12.7	142	8.72	8.05	91.3
4/21/2007	10:17:10	12.7	143	8.71	7.95	90.0
4/21/2007	10:32:10	12.6	122	8.67	5.30	59.9
4/21/2007	10:47:10	12.6	116	8.64	6.34	71.7
4/21/2007	11:02:10	12.5	148	8.65	7.75	87.5
4/21/2007	11:17:10	12.4	170	8.63	8.34	94.0
4/21/2007	11:32:10	12.3	179	8.61	8.27	93.0
4/21/2007	11:47:10	12.2	183	8.58	8.36	93.7

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	12:02:10	12.1	198	8.55	8.38	93.7
4/21/2007	12:17:10	12.0	190	8.52	8.35	93.3
4/21/2007	12:32:10	12.0	165	8.49	8.29	92.6
4/21/2007	12:47:10	12.0	182	8.47	8.35	93.2
4/21/2007	13:02:10	11.9	167	8.44	8.30	92.6
4/21/2007	13:17:10	11.9	169	8.41	8.35	93.1
4/21/2007	13:32:10	12.1	178	8.39	8.39	93.9
4/21/2007	13:47:10	12.2	187	8.37	8.44	94.7
4/21/2007	14:02:10	12.1	200	8.35	8.46	94.7
4/21/2007	14:17:10	12.0	189	8.33	8.39	93.7
4/21/2007	14:32:10	12.0	171	8.32	8.32	93.0
4/21/2007	14:47:10	12.0	175	8.30	8.37	93.4
4/21/2007	15:02:10	11.9	179	8.30	8.38	93.4
4/21/2007	15:17:10	11.8	166	8.28	8.41	93.5
4/21/2007	15:32:10	11.8	170	8.27	8.51	94.6
4/21/2007	15:47:10	11.8	180	8.27	8.51	94.5
4/21/2007	16:02:10	11.7	176	8.26	8.56	95.0
4/21/2007	16:17:10	11.8	181	8.25	8.54	94.8
4/21/2007	16:32:10	11.9	178	8.24	8.50	94.5
4/21/2007	16:47:10	11.9	180	8.24	8.51	94.7
4/21/2007	17:02:10	11.8	186	8.24	8.52	94.6
4/21/2007	17:17:10	11.7	179	8.23	8.58	95.1
4/21/2007	17:32:10	11.8	190	8.23	8.55	94.9
4/21/2007	17:47:10	11.7	155	8.23	8.40	93.2
4/21/2007	18:02:10	11.6	150	8.23	8.51	94.3
4/21/2007	18:17:10	11.6	115	8.22	7.03	77.7
4/21/2007	18:32:10	11.6	114	8.23	7.05	78.0
4/21/2007	18:47:10	11.6	113	8.22	6.53	72.2
4/21/2007	19:02:10	11.6	113	8.22	5.21	57.6
4/21/2007	19:17:10	11.6	113	8.21	5.93	65.5
4/21/2007	19:32:10	11.5	112	8.22	7.11	78.4
4/21/2007	19:47:10	11.3	192	8.20	8.57	94.1
4/21/2007	20:02:10	11.2	176	8.21	8.66	94.8
4/21/2007	20:17:10	11.1	170	8.21	8.67	94.7
4/21/2007	20:32:10	11.0	155	8.21	8.69	94.7
4/21/2007	20:47:10	10.9	160	8.21	8.66	94.3
4/21/2007	21:02:10	10.9	150	8.21	8.66	94.1
4/21/2007	21:17:10	10.8	144	8.21	8.33	90.4
4/21/2007	21:32:10	10.8	149	8.21	8.09	87.7
4/21/2007	21:47:10	10.7	116	8.22	4.21	45.7
4/21/2007	22:02:10	10.7	198	8.21	8.08	87.4
4/21/2007	22:17:10	10.6	151	8.21	8.52	92.1
4/21/2007	22:32:10	10.6	166	8.21	8.39	90.6
4/21/2007	22:47:10	10.5	157	8.21	8.52	92.0
4/21/2007	23:02:10	10.5	160	8.21	8.57	92.5
4/21/2007	23:17:10	10.5	179	8.22	8.42	90.7

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	23:32:10	10.4	157	8.23	8.48	91.3
4/21/2007	23:47:10	10.4	161	8.22	8.38	90.1
4/22/2007	0:02:10	10.4	164	8.22	8.33	89.6
4/22/2007	0:17:10	10.4	137	8.21	8.39	90.2
4/22/2007	0:32:10	10.3	179	8.22	8.55	91.9
4/22/2007	0:47:10	10.3	189	8.21	8.52	91.6
4/22/2007	1:02:10	10.3	176	8.21	8.45	90.7
4/22/2007	1:17:10	10.3	167	8.22	8.49	91.1
4/22/2007	1:32:10	10.2	164	8.22	8.59	92.0
4/22/2007	1:47:10	10.2	178	8.23	8.52	91.3
4/22/2007	2:02:10	10.2	166	8.23	8.53	91.4
4/22/2007	2:17:10	10.2	165	8.24	8.53	91.3
4/22/2007	2:32:10	10.2	157	8.24	8.47	90.6
4/22/2007	2:47:10	10.1	147	8.25	8.51	91.0
4/22/2007	3:02:10	10.1	167	8.25	8.56	91.5
4/22/2007	3:17:10	10.1	163	8.26	8.46	90.5
4/22/2007	3:32:10	10.1	153	8.27	8.46	90.4
4/22/2007	3:47:10	10.1	157	8.28	8.38	89.5
4/22/2007	4:02:10	10.0	152	8.29	8.46	90.3
4/22/2007	4:17:10	10.0	189	8.30	8.46	90.2
4/22/2007	4:32:10	10.0	159	8.30	8.47	90.2
4/22/2007	4:47:10	10.0	155	8.31	8.40	89.4
4/22/2007	5:02:10	9.9	225	8.32	8.49	90.3
4/22/2007	5:17:10	9.9	160	8.33	8.53	90.7
4/22/2007	5:32:10	9.9	164	8.34	8.53	90.7
4/22/2007	5:47:10	9.8	159	8.35	8.52	90.5
4/22/2007	6:02:10	9.8	157	8.36	8.48	90.0
4/22/2007	6:17:10	9.8	160	8.37	8.52	90.3
4/22/2007	6:32:10	9.7	160	8.38	8.52	90.3
4/22/2007	6:47:10	9.7	160	8.39	8.51	90.1
4/22/2007	7:02:10	9.7	155	8.40	8.49	89.8
4/22/2007	7:17:10	9.7	160	8.41	8.55	90.5
4/22/2007	7:32:10	9.6	164	8.43	8.52	90.1
4/22/2007	7:47:10	9.6	166	8.44	8.57	90.5
4/22/2007	8:02:10	9.7	164	8.45	8.53	90.2
4/22/2007	8:17:10	9.7	171	8.46	8.53	90.3
4/22/2007	8:32:10	9.8	169	8.47	8.63	91.4
4/22/2007	8:47:10	9.8	170	8.48	8.68	92.2
4/22/2007	9:02:10	9.9	166	8.50	8.64	92.0
4/22/2007	9:17:10	10.0	173	8.50	8.62	92.0
4/22/2007	9:32:10	10.2	179	8.51	8.62	92.2
4/22/2007	9:47:10	10.3	160	8.53	8.74	93.8
4/22/2007	10:02:10	10.4	186	8.53	8.72	93.9
4/22/2007	10:17:10	10.6	192	8.53	8.68	93.8
4/22/2007	10:32:10	10.7	191	8.53	8.75	94.9
4/22/2007	10:47:10	10.9	184	8.53	8.80	95.8

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	11:02:10	11.1	191	8.53	8.76	95.7
4/22/2007	11:17:10	11.3	179	8.52	8.69	95.4
4/22/2007	11:32:10	11.5	185	8.52	8.63	95.1
4/22/2007	11:47:10	11.6	173	8.50	8.61	95.4
4/22/2007	12:02:10	11.9	167	8.49	8.65	96.3
4/22/2007	12:17:10	12.1	158	8.48	8.65	96.6
4/22/2007	12:32:10	12.3	141	8.46	8.58	96.3
4/22/2007	12:47:10	12.5	162	8.43	8.45	95.4
4/22/2007	13:02:10	12.7	153	8.42	8.64	98.0
4/22/2007	13:17:10	12.9	153	8.40	8.65	98.5
4/22/2007	13:32:10	13.1	147	8.37	8.65	98.9
4/22/2007	13:47:10	13.2	218	8.35	8.59	98.6
4/22/2007	14:02:10	13.4	183	8.34	8.43	97.1
4/22/2007	14:17:10	13.5	166	8.32	8.34	96.4
4/22/2007	14:32:10	13.6	163	8.30	8.37	96.9
4/22/2007	14:47:10	13.8	179	8.29	8.29	96.3
4/22/2007	15:02:10	13.8	181	8.27	8.28	96.2
4/22/2007	15:17:10	13.8	179	8.27	8.34	96.9
4/22/2007	15:32:10	13.8	170	8.25	8.29	96.5
4/22/2007	15:47:10	13.9	177	8.25	8.25	96.1
4/22/2007	16:02:10	13.9	176	8.24	8.21	95.7
4/22/2007	16:17:10	13.9	179	8.24	8.28	96.5
4/22/2007	16:32:10	13.9	186	8.22	8.21	95.7
4/22/2007	16:47:10	14.0	186	8.22	8.26	96.6
4/22/2007	17:02:10	14.1	179	8.22	8.24	96.3
4/22/2007	17:17:10	14.1	169	8.22	8.11	94.9
4/22/2007	17:32:10	14.1	177	8.22	8.17	95.6
4/22/2007	17:47:10	14.2	172	8.22	8.14	95.4
4/22/2007	18:02:10	14.1	168	8.22	8.24	96.4
4/22/2007	18:17:10	14.1	168	8.22	8.10	94.8
4/22/2007	18:32:10	14.1	162	8.22	8.12	95.1
4/22/2007	18:47:10	14.1	177	8.22	8.10	94.7
4/22/2007	19:02:10	14.0	179	8.23	8.09	94.4
4/22/2007	19:17:10	13.9	182	8.21	8.08	94.1
4/22/2007	19:32:10	13.8	169	8.21	8.00	93.0
4/22/2007	19:47:10	13.8	163	8.20	8.08	93.8
4/22/2007	20:02:10	13.7	164	8.20	8.01	92.9
4/22/2007	20:17:10	13.6	173	8.21	7.90	91.4
4/22/2007	20:32:10	13.5	187	8.21	8.00	92.4
4/22/2007	20:47:10	13.5	155	8.22	8.08	93.2
4/22/2007	21:02:10	13.4	162	8.21	7.97	91.9
4/22/2007	21:17:10	13.4	177	8.22	8.02	92.4
4/22/2007	21:32:10	13.4	215	8.22	8.00	92.1
4/22/2007	21:47:10	13.3	209	8.22	8.01	92.1
4/22/2007	22:02:10	13.3	203	8.22	8.05	92.5
4/22/2007	22:17:10	13.2	197	8.23	7.93	91.1

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	22:32:10	13.2	188	8.23	7.98	91.5
4/22/2007	22:47:10	13.2	185	8.23	7.94	91.0
4/22/2007	23:02:10	13.2	173	8.24	7.96	91.3
4/22/2007	23:17:10	13.1	189	8.24	7.91	90.6
4/22/2007	23:32:10	13.1	182	8.24	8.04	92.0
4/22/2007	23:47:10	13.1	189	8.24	8.00	91.5
4/23/2007	0:02:10	13.1	193	8.24	7.98	91.3
4/23/2007	0:17:10	13.1	198	8.24	7.93	90.8
4/23/2007	0:32:10	13.1	188	8.25	7.95	91.0
4/23/2007	0:47:10	13.1	189	8.26	7.98	91.2
4/23/2007	1:02:10	13.1	191	8.27	7.97	91.2
4/23/2007	1:17:10	13.1	192	8.28	7.95	90.8
4/23/2007	1:32:10	13.0	193	8.29	7.92	90.6
4/23/2007	1:47:10	13.0	196	8.30	7.94	90.7
4/23/2007	2:02:10	13.0	205	8.31	8.05	92.0
4/23/2007	2:17:10	13.0	205	8.31	7.95	90.8
4/23/2007	2:32:10	13.0	183	8.33	7.94	90.7
4/23/2007	2:47:10	13.0	178	8.35	7.96	90.8
4/23/2007	3:02:10	13.0	172	8.36	7.97	90.9
4/23/2007	3:17:10	13.0	171	8.37	7.91	90.2
4/23/2007	3:32:10	13.0	173	8.39	7.89	90.0
4/23/2007	3:47:10	13.0	161	8.41	7.91	90.3
4/23/2007	4:02:10	13.0	170	8.43	7.93	90.6
4/23/2007	4:17:10	13.0	170	8.46	7.92	90.4
4/23/2007	4:32:10	13.0	184	8.48	7.97	90.9
4/23/2007	4:47:10	12.9	179	8.50	7.90	90.1
4/23/2007	5:02:10	12.9	162	8.53	7.88	89.8
4/23/2007	5:17:10	12.9	164	8.55	7.92	90.2
4/23/2007	5:32:10	12.8	174	8.57	7.97	90.6
4/23/2007	5:47:10	12.8	167	8.60	7.92	90.0
4/23/2007	6:02:10	12.7	165	8.63	7.90	89.7
4/23/2007	6:17:10	12.7	176	8.65	7.89	89.5
4/23/2007	6:32:10	12.7	243	8.67	8.02	90.9
4/23/2007	6:47:10	12.6	170	8.68	7.93	89.7
4/23/2007	7:02:10	12.6	171	8.70	7.95	89.9
4/23/2007	7:17:10	12.5	164	8.72	8.02	90.6
4/23/2007	7:32:10	12.5	161	8.75	7.89	89.1
4/23/2007	7:47:10	12.5	161	8.77	7.91	89.4
4/23/2007	8:02:10	12.5	169	8.76	7.96	89.9
4/23/2007	8:17:10	12.6	161	8.77	8.02	90.7
4/23/2007	8:32:10	12.6	159	8.77	7.95	89.9
4/23/2007	8:47:10	12.6	163	8.77	8.02	90.9
4/23/2007	9:02:10	12.7	165	8.78	7.98	90.5
4/23/2007	9:17:10	12.8	161	8.78	8.04	91.4
4/23/2007	9:32:10	12.9	160	8.78	8.00	91.1
4/23/2007	9:47:10	12.9	165	8.77	8.00	91.1

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	10:02:10	13.0	168	8.76	7.94	90.6
4/23/2007	10:17:10	13.1	162	8.76	7.83	89.5
4/23/2007	10:32:10	13.1	176	8.75	7.95	91.1
4/23/2007	10:47:10	13.2	177	8.74	8.18	93.9
4/23/2007	11:02:10	13.4	238	8.73	8.08	93.1
4/23/2007	11:17:10	13.5	162	8.71	8.04	92.8
4/23/2007	11:32:10	13.6	172	8.69	8.04	93.2
4/23/2007	11:47:10	13.8	174	8.67	8.05	93.4
4/23/2007	12:02:10	13.9	162	8.65	8.06	93.8
4/23/2007	12:17:10	14.0	166	8.62	8.10	94.6
4/23/2007	12:32:10	14.2	170	8.59	8.01	93.8
4/23/2007	12:47:10	14.3	171	8.56	8.06	94.7
4/23/2007	13:02:10	14.5	172	8.53	7.99	94.2
4/23/2007	13:17:10	14.5	170	8.50	8.02	94.8
4/23/2007	13:32:10	14.6	170	8.48	7.98	94.3
4/23/2007	13:47:10	14.6	175	8.45	7.98	94.3
4/23/2007	14:02:10	14.6	174	8.43	8.02	94.9
4/23/2007	14:17:10	14.6	166	8.41	8.09	95.8
4/23/2007	14:32:10	14.6	165	8.39	7.99	94.5
4/23/2007	14:47:10	14.6	172	8.37	8.01	94.7
4/23/2007	15:02:10	14.6	174	8.35	8.00	94.6
4/23/2007	15:17:10	14.6	171	8.33	7.97	94.2
4/23/2007	15:32:10	14.5	175	8.32	7.98	94.2
4/23/2007	15:47:10	14.5	175	8.31	8.06	95.1
4/23/2007	16:02:10	14.4	175	8.30	8.00	94.2
4/23/2007	16:17:10	14.4	180	8.30	7.97	93.9
4/23/2007	16:32:10	14.3	175	8.29	8.01	94.2
4/23/2007	16:47:10	14.2	175	8.28	7.93	92.9
4/23/2007	17:02:10	14.1	173	8.28	7.93	92.8
4/23/2007	17:17:10	14.0	176	8.27	7.96	92.8
4/23/2007	17:32:10	13.8	171	8.27	7.95	92.5
4/23/2007	17:47:10	13.8	170	8.27	7.93	92.0
4/23/2007	18:02:10	13.7	167	8.27	7.86	91.2
4/23/2007	18:17:10	13.6	172	8.27	7.94	92.0
4/23/2007	18:32:10	13.6	186	8.27	7.65	88.7
4/23/2007	18:47:10	13.6	165	8.26	6.12	70.8
4/23/2007	19:02:10	13.6	157	8.23	3.81*	44.1
4/23/2007	19:17:10	13.6	156	8.25	3.25	37.6
4/23/2007	19:32:10	13.6	155	8.23	2.89	33.5
4/23/2007	19:47:10	13.6	155	8.23	2.70	31.2
4/23/2007	20:02:10	13.6	156	8.22	3.64	42.1
4/23/2007	20:17:10	13.4	137	8.24	7.54	86.9
4/23/2007	20:32:10	13.4	218	8.25	8.05	92.7
4/23/2007	20:47:10	13.3	170	8.26	7.99	91.8
4/23/2007	21:02:10	13.3	165	8.26	8.04	92.4
4/23/2007	21:17:10	13.2	167	8.26	7.74	88.8

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	21:32:10	13.2	167	8.26	7.21	82.6
4/23/2007	21:47:10	13.0	167	8.26	7.26	83.0
4/23/2007	22:02:10	13.0	159	8.25	3.99	45.5
4/23/2007	22:17:10	13.0	158	8.24	4.94	56.4
4/23/2007	22:32:10	13.0	158	8.24	4.49	51.3
4/23/2007	22:47:10	13.0	157	8.23	4.06	46.4
4/23/2007	23:02:10	13.0	157	8.23	3.69	42.2
4/23/2007	23:17:10	12.9	157	8.23	4.38	50.0
4/23/2007	23:32:10	12.7	163	8.24	6.86	77.7
4/23/2007	23:47:10	12.6	158	8.22	4.63	52.5
4/24/2007	0:02:10	12.7	157	8.20	4.82	54.6
4/24/2007	0:17:10	12.7	157	8.20	5.01	56.8
4/24/2007	0:32:10	12.6	156	8.22	5.16	58.4
4/24/2007	0:47:10	12.5	156	8.22	4.92	55.5
4/24/2007	1:02:10	12.5	156	8.20	4.22	47.6
4/24/2007	1:17:10	12.5	155	8.19	3.61	40.8
4/24/2007	1:32:10	12.5	155	8.19	4.11	46.5
4/24/2007	1:47:10	12.6	155	8.18	4.39	49.6
4/24/2007	2:02:10	12.5	155	8.18	4.29	48.4
4/24/2007	2:17:10	12.5	156	8.17	4.13	46.7
4/24/2007	2:32:10	12.5	155	8.15	3.67	41.5
4/24/2007	2:47:10	12.5	155	8.15	3.09	34.9
4/24/2007	3:02:10	12.4	155	8.15	3.16	35.6
4/24/2007	3:17:10	12.4	155	8.15	3.91	44.1
4/24/2007	3:32:10	12.3	154	8.14	4.18	47.0
4/24/2007	3:47:10	12.2	154	8.14	4.16	46.7
4/24/2007	4:02:10	12.1	153	8.16	4.03	45.1
4/24/2007	4:17:10	12.0	153	8.16	4.38	48.9
4/24/2007	4:32:10	12.0	152	8.16	3.96	44.1
4/24/2007	4:47:10	11.9	152	8.17	4.03	45.0
4/24/2007	5:02:10	11.9	152	8.17	3.68	41.0
4/24/2007	5:17:10	11.9	152	8.17	4.17	46.5
4/24/2007	5:32:10	11.9	152	8.17	4.48	49.9
4/24/2007	5:47:10	11.9	152	8.16	3.92	43.7
4/24/2007	6:02:10	11.8	152	8.17	3.70	41.2
4/24/2007	6:17:10	11.8	151	8.16	3.44	38.2
4/24/2007	6:32:10	11.7	151	8.16	3.59	39.8
4/24/2007	6:47:10	11.6	151	8.16	3.62	40.1
4/24/2007	7:02:10	11.6	150	8.17	3.67	40.6
4/24/2007	7:17:10	11.6	150	8.17	4.00	44.3
4/24/2007	7:32:10	11.6	150	8.17	3.94	43.5
4/24/2007	7:47:10	11.5	150	8.18	4.13	45.6
4/24/2007	8:02:10	11.5	149	8.19	4.15	45.7
4/24/2007	8:17:10	11.4	149	8.20	3.79	41.7
4/24/2007	8:32:10	11.3	148	8.20	4.09	44.9
4/24/2007	8:47:10	11.3	148	8.20	4.59	50.4

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	9:02:10	11.3	148	8.20	4.47	49.1
4/24/2007	9:17:10	11.3	148	8.18	3.96	43.5
4/24/2007	9:32:10	11.3	148	8.18	4.31	47.3
4/24/2007	9:47:10	11.2	147	8.39	5.62	61.6
4/24/2007	10:02:10	11.2	182	8.52	6.46	70.8
4/24/2007	10:17:10	11.3	176	8.67	6.45	70.8
4/24/2007	10:32:10	11.3	163	8.66	6.63	72.8
4/24/2007	10:47:10	11.4	168	8.62	4.96	54.6
4/24/2007	11:02:10	11.5	167	8.60	4.80	53.0
4/24/2007	11:17:10	11.5	167	8.59	3.87	42.8
4/24/2007	11:32:10	11.5	166	8.56	4.02	44.4
4/24/2007	11:47:10	11.5	166	8.53	4.00	44.2
4/24/2007	12:02:10	11.5	166	8.53	4.15	45.8
4/24/2007	12:17:10	11.5	165	8.52	3.93	43.3
4/24/2007	12:32:10	11.4	165	8.50	3.32	36.6
4/24/2007	12:47:10	11.4	165	8.49	3.36	37.1
4/24/2007	13:02:10	11.4	165	8.48	3.47	38.2
4/24/2007	13:17:10	11.4	165	8.45	2.95	32.5
4/24/2007	13:32:10	11.4	165	8.44	2.72	29.9
4/24/2007	13:47:10	11.4	165	8.43	2.70	29.8
4/24/2007	14:02:10	11.4	166	8.42	2.63	28.9
4/24/2007	14:17:10	11.3	166	8.41	3.08	33.9
4/24/2007	14:32:10	11.3	166	8.41	3.49	38.4
4/24/2007	14:47:10	11.3	166	8.39	3.21	35.3
4/24/2007	15:02:10	11.3	166	8.38	3.33	36.6
4/24/2007	15:17:10	11.3	166	8.37	3.67	40.3
4/24/2007	15:32:10	11.3	166	8.37	3.18	34.9
4/24/2007	15:47:10	11.3	166	8.35	3.33	36.5
4/24/2007	16:02:10	11.3	166	8.34	3.46	38.0
4/24/2007	16:17:10	11.3	167	8.34	3.63	39.8
4/24/2007	16:32:10	11.3	167	8.33	3.60	39.6
4/24/2007	16:47:10	11.3	167	8.32	3.76	41.3
4/24/2007	17:02:10	11.3	167	8.31	3.88	42.6
4/24/2007	17:17:10	11.3	167	8.30	4.13	45.4
4/24/2007	17:32:10	11.3	167	8.29	4.26	46.8
4/24/2007	17:47:10	11.4	167	8.29	4.68	51.5
4/24/2007	18:02:10	11.5	166	8.28	4.21	46.5
4/24/2007	18:17:10	11.6	165	8.27	3.87	42.8
4/24/2007	18:32:10	11.6	165	8.26	3.69	40.8
4/24/2007	18:47:10	11.5	165	8.26	3.52	38.9
4/24/2007	19:02:10	11.5	165	8.26	4.03	44.5
4/24/2007	19:17:10	11.5	165	8.26	4.38	48.4
4/24/2007	19:32:10	11.5	164	8.27	4.42	48.7
4/24/2007	19:47:10	11.4	164	8.25	4.33	47.7
4/24/2007	20:02:10	11.4	164	8.24	4.00	44.1
4/24/2007	20:17:10	11.4	164	8.23	3.69	40.6

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	20:32:10	11.4	164	8.22	3.46	38.1
4/24/2007	20:47:10	11.4	164	8.21	3.28	36.1
4/24/2007	21:02:10	11.4	164	8.20	3.28	36.1
4/24/2007	21:17:10	11.4	164	8.19	3.17	34.9
4/24/2007	21:32:10	11.4	164	8.18	3.19	35.1
4/24/2007	21:47:10	11.4	164	8.18	3.07	33.8
4/24/2007	22:02:10	11.4	164	8.17	3.26	35.9
4/24/2007	22:17:10	11.4	164	8.17	3.34	36.8
4/24/2007	22:32:10	11.4	164	8.17	3.60	39.6
4/24/2007	22:47:10	11.4	164	8.17	3.93	43.3
4/24/2007	23:02:10	11.4	164	8.16	4.12	45.4
4/24/2007	23:17:10	11.4	164	8.16	3.99	43.9
4/24/2007	23:32:10	11.4	164	8.15	3.89	42.8
4/24/2007	23:47:10	11.4	164	8.15	3.82	42.1
4/25/2007	0:02:10	11.4	163	8.14	3.73	41.1
4/25/2007	0:17:10	11.4	164	8.13	3.48	38.3
4/25/2007	0:32:10	11.4	164	8.13	3.47	38.2
4/25/2007	0:47:10	11.4	164	8.13	3.54	39.0
4/25/2007	1:02:10	11.4	164	8.12	3.46	38.1
4/25/2007	1:17:10	11.4	164	8.12	3.36	36.9
4/25/2007	1:32:10	11.4	164	8.11	3.21	35.4
4/25/2007	1:47:10	11.4	164	8.10	3.13	34.4
4/25/2007	2:02:10	11.4	164	8.10	3.34	36.7
4/25/2007	2:17:10	11.3	164	8.10	3.47	38.2
4/25/2007	2:32:10	11.3	164	8.09	3.39	37.2
4/25/2007	2:47:10	11.3	164	8.08	3.15	34.6
4/25/2007	3:02:10	11.2	164	8.08	3.02	33.1
4/25/2007	3:17:10	11.2	164	8.07	2.84	31.1
4/25/2007	3:32:10	11.2	164	8.07	2.81	30.8
4/25/2007	3:47:10	11.2	164	8.06	2.78	30.4
4/25/2007	4:02:10	11.2	164	8.06	2.79	30.6
4/25/2007	4:17:10	11.1	164	8.06	2.72	29.7
4/25/2007	4:32:10	11.1	164	8.05	2.68	29.3
4/25/2007	4:47:10	11.1	164	8.05	2.95	32.2
4/25/2007	5:02:10	11.0	164	8.05	2.96	32.3
4/25/2007	5:17:10	11.0	164	8.04	2.92	31.9
4/25/2007	5:32:10	11.0	164	8.04	3.09	33.7
4/25/2007	5:47:10	10.9	164	8.04	3.33	36.3
4/25/2007	6:02:10	10.9	164	8.03	3.44	37.4
4/25/2007	6:17:10	10.9	164	8.03	3.24	35.3
4/25/2007	6:32:10	10.9	163	8.03	2.94	32.0
4/25/2007	6:47:10	10.9	163	8.03	3.18	34.6
4/25/2007	7:02:10	10.8	163	8.03	3.10	33.7
4/25/2007	7:17:10	10.8	163	8.02	3.15	34.2
4/25/2007	7:32:10	10.8	163	8.02	3.23	35.1
4/25/2007	7:47:10	10.8	163	8.02	3.23	35.0

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	8:02:10	10.8	163	8.01	3.23	35.0
4/25/2007	8:17:10	10.7	162	8.01	2.90	31.5
4/25/2007	8:32:10	10.7	162	8.01	3.03	32.8
4/25/2007	8:47:10	10.7	162	8.01	3.08	33.4
4/25/2007	9:02:10	10.7	162	8.01	2.95	32.0
4/25/2007	9:17:10	10.7	162	8.00	2.84	30.8
4/25/2007	9:32:10	10.7	161	8.00	2.74	29.7
4/25/2007	9:47:10	10.7	161	8.00	2.70	29.3
4/25/2007	10:02:10	10.7	161	7.99	2.64	28.6
4/25/2007	10:17:10	10.6	161	7.99	2.57	27.8
4/25/2007	10:32:10	10.6	161	7.99	2.54	27.4
4/25/2007	10:47:10	10.6	161	7.98	2.48	26.9
4/25/2007	11:02:10	10.6	161	7.98	2.54	27.4
4/25/2007	11:17:10	10.6	161	7.98	2.63	28.5
4/25/2007	11:32:10	10.6	160	7.98	2.87	31.0
4/25/2007	11:47:10	10.6	160	7.99	3.05	33.0
4/25/2007	12:02:10	10.6	160	7.98	3.07	33.2
4/25/2007	12:17:10	10.6	160	7.98	2.85	30.9
4/25/2007	12:32:10	10.6	160	7.97	2.78	30.1
4/25/2007	12:47:10	10.6	160	7.98	2.75	29.8
4/25/2007	13:02:10	10.7	160	7.97	2.64	28.5
4/25/2007	13:17:10	10.7	160	7.97	2.51	27.2
4/25/2007	13:32:10	10.7	160	7.97	2.44	26.4
4/25/2007	13:47:10	10.8	160	7.97	2.45	26.6
4/25/2007	14:02:10	10.8	160	7.97	2.66	28.9
4/25/2007	14:17:10	10.9	160	7.97	2.72	29.7
4/25/2007	14:32:10	11.0	161	7.96	2.57	28.1
4/25/2007	14:47:10	11.1	161	7.95	2.60	28.4
4/25/2007	15:02:10	11.2	161	7.95	2.64	28.9
4/25/2007	15:17:10	11.4	161	7.95	2.83	31.1
4/25/2007	15:32:10	11.5	162	7.95	2.64	29.1
4/25/2007	15:47:10	11.7	162	7.94	2.83	31.4
4/25/2007	16:02:10	11.8	162	7.95	2.88	32.0
4/25/2007	16:17:10	12.1	162	7.94	2.55	28.5
4/25/2007	16:32:10	12.2	163	7.93	2.47	27.7
4/25/2007	16:47:10	12.4	163	7.94	2.86	32.2
4/25/2007	17:02:10	12.8	164	7.93	2.68	30.5
4/25/2007	17:17:10	13.2	164	7.92	2.38	27.3
4/25/2007	17:32:10	13.3	164	7.92	2.44	28.0
4/25/2007	17:47:10	13.5	165	7.91	2.45	28.2
4/25/2007	18:02:10	13.7	165	7.91	2.50	29.0
4/25/2007	18:17:10	14.1	166	7.91	2.65	31.0
4/25/2007	18:32:10	14.4	166	7.90	2.57	30.2
4/25/2007	18:47:10	14.6	167	7.90	2.72	32.2
4/25/2007	19:02:10	14.9	167	7.89	2.87	34.1
4/25/2007	19:17:10	15.1	168	7.89	2.85	34.1

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	19:32:10	15.3	168	7.88	2.61	31.3
4/25/2007	19:47:10	15.3	168	7.88	2.30	27.6
4/25/2007	20:02:10	15.3	168	7.87	2.16	25.9
4/25/2007	20:17:10	15.3	168	7.87	2.11	25.3
4/25/2007	20:32:10	15.3	168	7.87	2.07	24.9
4/25/2007	20:47:10	15.4	169	7.87	2.06	24.8
4/25/2007	21:02:10	15.5	169	7.87	2.38	28.8
4/25/2007	21:17:10	15.6	170	7.87	2.44	29.5
4/25/2007	21:32:10	15.6	170	7.86	2.50	30.2
4/25/2007	21:47:10	15.6	170	7.86	2.38	28.7
4/25/2007	22:02:10	15.6	170	7.85	2.16	26.2
4/25/2007	22:17:10	15.6	170	7.85	2.05	24.7
4/25/2007	22:32:10	15.6	170	7.84	2.08	25.2
4/25/2007	22:47:10	15.6	170	7.84	1.92	23.3
4/25/2007	23:02:10	15.7	171	7.85	1.80	21.8
4/25/2007	23:17:10	15.7	171	7.85	1.78	21.5
4/25/2007	23:32:10	15.7	170	7.84	1.88	22.8
4/25/2007	23:47:10	15.6	170	7.84	1.90	23.0
4/26/2007	0:02:10	15.6	170	7.84	1.85	22.3
4/26/2007	0:17:10	15.6	171	7.84	1.90	22.9
4/26/2007	0:32:10	15.6	171	7.84	1.90	22.9
4/26/2007	0:47:10	15.5	171	7.84	2.34	28.2
4/26/2007	1:02:10	15.4	171	7.84	2.51	30.3
4/26/2007	1:17:10	15.3	170	7.84	2.59	31.2
4/26/2007	1:32:10	15.3	170	7.85	2.59	31.1
4/26/2007	1:47:10	15.2	170	7.86	2.70	32.4
4/26/2007	2:02:10	15.1	170	7.86	2.85	34.1
4/26/2007	2:17:10	15.1	170	7.86	2.60	31.0
4/26/2007	2:32:10	15.0	170	7.85	2.53	30.2
4/26/2007	2:47:10	14.9	170	7.85	2.48	29.6
4/26/2007	3:02:10	14.9	170	7.85	2.36	28.1
4/26/2007	3:17:10	14.8	170	7.84	2.38	28.2
4/26/2007	3:32:10	14.8	169	7.84	2.37	28.2
4/26/2007	3:47:10	14.7	170	7.84	2.29	27.1
4/26/2007	4:02:10	14.7	170	7.83	2.13	25.2
4/26/2007	4:17:10	14.6	170	7.83	2.06	24.3
4/26/2007	4:32:10	14.6	170	7.82	1.93	22.8
4/26/2007	4:47:10	14.5	170	7.82	2.04	24.1
4/26/2007	5:02:10	14.5	170	7.82	2.01	23.8
4/26/2007	5:17:10	14.4	170	7.82	1.95	22.9
4/26/2007	5:32:10	14.4	170	7.81	1.93	22.8
4/26/2007	5:47:10	14.4	170	7.82	2.10	24.7
4/26/2007	6:02:10	14.3	170	7.82	2.20	25.9
4/26/2007	6:17:10	14.3	170	7.82	2.19	25.8
4/26/2007	6:32:10	14.3	169	7.82	2.24	26.3
4/26/2007	6:47:10	14.2	170	7.82	2.12	24.8

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	7:02:10	14.2	170	7.81	2.13	25.0
4/26/2007	7:17:10	14.2	170	7.81	2.19	25.7
4/26/2007	7:32:10	14.1	170	7.81	2.04	23.9
4/26/2007	7:47:10	14.1	169	7.81	1.97	23.1
4/26/2007	8:02:10	14.1	169	7.81	2.01	23.5
4/26/2007	8:17:10	14.0	169	7.81	2.04	23.9
4/26/2007	8:32:10	14.0	169	7.81	1.94	22.7
4/26/2007	8:47:10	14.0	169	7.81	1.88	22.0
4/26/2007	9:02:10	13.9	169	7.80	1.90	22.1
4/26/2007	9:17:10	13.9	168	7.80	2.17	25.3
4/26/2007	9:32:10	13.8	168	7.81	2.23	25.9
4/26/2007	9:47:10	13.8	167	7.81	2.15	25.0
4/26/2007	10:02:10	13.7	167	7.81	2.05	23.8
4/26/2007	10:17:10	13.7	166	7.81	1.95	22.6
4/26/2007	10:32:10	13.7	166	7.81	2.04	23.6
4/26/2007	10:47:10	13.6	166	7.80	2.06	23.8
4/26/2007	11:02:10	13.6	166	7.81	1.99	23.0
4/26/2007	11:17:10	13.5	165	7.81	2.23	25.7
4/26/2007	11:32:10	13.4	165	7.82	2.62	30.2
4/26/2007	11:47:10	13.4	164	7.83	2.82	32.4
4/26/2007	12:02:10	13.4	163	7.83	2.78	32.0
4/26/2007	12:17:10	13.5	163	7.83	2.73	31.5
4/26/2007	12:32:10	13.6	163	7.84	2.75	31.9
4/26/2007	12:47:10	13.8	163	7.84	2.87	33.4
4/26/2007	13:02:10	13.9	163	7.84	2.91	34.0
4/26/2007	13:17:10	14.1	164	7.84	2.78	32.5
4/26/2007	13:32:10	14.2	163	7.84	2.70	31.6
4/26/2007	13:47:10	14.3	164	7.84	2.84	33.3
4/26/2007	14:02:10	14.4	164	7.84	2.84	33.5
4/26/2007	14:17:10	14.4	164	7.84	2.55	30.1
4/26/2007	14:32:10	14.5	164	7.83	2.34	27.6
4/26/2007	14:47:10	14.5	164	7.83	2.25	26.6
4/26/2007	15:02:10	14.6	164	7.83	2.10	24.8
4/26/2007	15:17:10	14.6	165	7.82	1.99	23.5
4/26/2007	15:32:10	14.7	165	7.82	2.08	24.7
4/26/2007	15:47:10	14.8	165	7.83	2.11	25.0
4/26/2007	16:02:10	14.8	165	7.82	1.93	22.9
4/26/2007	16:17:10	14.9	165	7.82	1.85	22.0
4/26/2007	16:32:10	14.9	165	7.82	1.97	23.4
4/26/2007	16:47:10	15.0	166	7.82	2.19	26.1
4/26/2007	17:02:10	15.1	166	7.82	2.08	24.9
4/26/2007	17:17:10	15.1	166	7.82	1.91	22.8
4/26/2007	17:32:10	15.2	166	7.82	1.81	21.7
4/26/2007	17:47:10	15.2	167	7.82	1.73	20.7
4/26/2007	18:02:10	15.3	167	7.82	1.73	20.8
4/26/2007	18:17:10	15.4	167	7.82	1.73	20.8

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	18:32:10	15.5	168	7.82	1.83	22.1
4/26/2007	18:47:10	15.6	168	7.82	1.89	22.8
4/26/2007	19:02:10	15.6	168	7.82	1.90	23.0
4/26/2007	19:17:10	15.7	169	7.82	1.79	21.7
4/26/2007	19:32:10	15.8	169	7.81	1.70	20.6
4/26/2007	19:47:10	15.8	169	7.80	1.85	22.4
4/26/2007	20:02:10	15.9	169	7.80	1.67	20.4
4/26/2007	20:17:10	16.0	169	7.80	1.65	20.1
4/26/2007	20:32:10	16.1	170	7.81	1.61	19.7
4/26/2007	20:47:10	16.2	170	7.80	1.55	19.0
4/26/2007	21:02:10	16.2	170	7.81	1.66	20.3
4/26/2007	21:17:10	16.3	170	7.82	1.81	22.2
4/26/2007	21:32:10	16.4	170	7.82	1.78	21.8
4/26/2007	21:47:10	16.4	170	7.82	1.77	21.7
4/26/2007	22:02:10	16.4	170	7.82	1.78	21.8
4/26/2007	22:17:10	16.4	171	7.83	1.79	22.0
4/26/2007	22:32:10	16.5	171	7.83	1.64	20.2
4/26/2007	22:47:10	16.5	171	7.83	1.51	18.5
4/26/2007	23:02:10	16.5	171	7.83	1.49	18.3
4/26/2007	23:17:10	16.5	171	7.82	1.42	17.5
4/26/2007	23:32:10	16.4	171	7.82	1.46	18.0
4/26/2007	23:47:10	16.4	170	7.83	1.66	20.4
4/27/2007	0:02:10	16.4	170	7.83	1.75	21.5
4/27/2007	0:17:10	16.4	171	7.83	1.68	20.7
4/27/2007	0:32:10	16.3	171	7.83	1.62	19.9
4/27/2007	0:47:10	16.3	171	7.83	1.69	20.7
4/27/2007	1:02:10	16.3	171	7.84	1.81	22.2
4/27/2007	1:17:10	16.2	171	7.84	1.74	21.3
4/27/2007	1:32:10	16.2	170	7.85	1.83	22.4
4/27/2007	1:47:10	16.1	170	7.85	1.96	24.0
4/27/2007	2:02:10	16.1	170	7.86	1.95	23.8
4/27/2007	2:17:10	16.1	170	7.86	1.99	24.3
4/27/2007	2:32:10	16.1	170	7.87	1.81	22.1
4/27/2007	2:47:10	16.1	170	7.87	1.74	21.2
4/27/2007	3:02:10	16.0	170	7.86	1.66	20.2
4/27/2007	3:17:10	16.0	170	7.85	1.65	20.2
4/27/2007	3:32:10	16.0	170	7.85	1.66	20.2
4/27/2007	3:47:10	16.0	170	7.85	1.67	20.3
4/27/2007	4:02:10	15.9	170	7.85	1.57	19.1
4/27/2007	4:17:10	15.9	170	7.85	1.58	19.2
4/27/2007	4:32:10	15.9	170	7.85	1.64	19.9
4/27/2007	4:47:10	15.8	170	7.86	1.54	18.7
4/27/2007	5:02:10	15.8	170	7.86	1.48	18.0
4/27/2007	5:17:10	15.8	170	7.86	1.49	18.1
4/27/2007	5:32:10	15.7	170	7.85	1.55	18.8
4/27/2007	5:47:10	15.7	170	7.86	1.55	18.7

Table 5.30. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/27/2007	6:02:10	15.7	170	7.86	1.56	18.9
4/27/2007	6:17:10	15.6	170	7.85	1.49	18.0
4/27/2007	6:32:10	15.6	170	7.85	1.40	16.9
4/27/2007	6:47:10	15.5	169	7.86	1.48	17.9
4/27/2007	7:02:10	15.5	169	7.86	1.70	20.5
4/27/2007	7:17:10	15.4	169	7.86	1.89	22.8
4/27/2007	7:32:10	15.4	169	7.86	1.77	21.3
4/27/2007	7:47:10	15.4	169	7.86	1.68	20.2
4/27/2007	8:02:10	15.3	169	7.86	1.65	19.9
4/27/2007	8:17:10	15.3	169	7.86	1.59	19.1
4/27/2007	8:32:10	15.2	170	7.86	1.50	18.0
4/27/2007	8:47:10	15.2	170	7.85	1.40	16.8
4/27/2007	9:02:10	15.1	169	7.85	1.43	17.0
4/27/2007	9:17:10	15.0	168	7.85	1.54	18.4
4/27/2007	9:32:10	15.0	168	7.84	1.70	20.3
4/27/2007	9:47:10	14.9	167	7.84	1.73	20.6
4/27/2007	10:02:10	14.9	167	7.84	1.72	20.4
4/27/2007	10:17:10	14.8	166	7.84	1.65	19.6
4/27/2007	10:32:10	14.7	165	7.85	1.77	20.9
4/27/2007	10:47:10	14.6	165	7.85	1.90	22.5
4/27/2007	11:02:10	14.5	165	7.86	2.03	24.0
4/27/2007	11:17:10	14.4	164	7.87	2.13	25.1
4/27/2007	11:32:10	14.4	108	7.90	2.11	24.8

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:25:58
Report from file:	...\SN45476 2007-04-13 120000 SIte5_4_13_07.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45476	
Firmware Version	1.58	
Unit name:	Apollo	
Barometric Pressure:		626.12
Test defined on:	2/14/1999	12:47:03
Test scheduled for	4/13/2007	12:00:00
Test started on:	4/13/2007	12:00:00
Test stopped on:	7/16/2007	14:51:58
Data gathered using linear testing		
Time between data points		900 seconds
Number of data samples:		9036

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/20/2007	13:15:00	15.8	8.52	104.8
4/20/2007	13:30:00	16.0	8.46	104.5
4/20/2007	13:45:00	16.1	8.42	104.2
4/20/2007	14:00:00	16.3	8.41	104.5
4/20/2007	14:15:00	16.5	8.38	104.6
4/20/2007	14:30:00	16.7	8.35	104.6
4/20/2007	14:45:00	16.8	8.33	104.6
4/20/2007	15:00:00	16.9	8.30	104.5
4/20/2007	15:15:00	17.2	8.23	104.1
4/20/2007	15:30:00	17.3	8.17	103.8
4/20/2007	15:45:00	17.5	8.12	103.5
4/20/2007	16:00:00	17.6	8.08	103.1
4/20/2007	16:15:00	17.7	8.05	103.0
4/20/2007	16:30:00	17.7	8.02	102.8
4/20/2007	16:45:00	17.7	8.00	102.5
4/20/2007	17:00:00	17.8	7.98	102.2
4/20/2007	17:15:00	17.7	7.96	101.8
4/20/2007	17:30:00	17.5	7.95	101.3
4/20/2007	17:45:00	17.4	7.93	100.8
4/20/2007	18:00:00	17.3	7.92	100.4
4/20/2007	18:15:00	17.1	7.91	100.0
4/20/2007	18:30:00	17.0	7.90	99.7
4/20/2007	18:45:00	16.9	7.89	99.2
4/20/2007	19:00:00	16.7	7.91	99.1
4/20/2007	19:15:00	16.7	7.91	99.1
4/20/2007	19:30:00	16.6	7.92	99.0
4/20/2007	19:45:00	16.5	7.92	98.8
4/20/2007	20:00:00	16.4	7.91	98.5

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/20/2007	20:15:00	16.4	7.90	98.3
4/20/2007	20:30:00	16.4	7.90	98.3
4/20/2007	20:45:00	16.3	7.90	98.1
4/20/2007	21:00:00	16.3	7.90	98.0
4/20/2007	21:15:00	16.2	7.89	97.9
4/20/2007	21:30:00	16.2	7.90	97.8
4/20/2007	21:45:00	16.1	7.90	97.7
4/20/2007	22:00:00	16.1	7.90	97.7
4/20/2007	22:15:00	16.0	7.90	97.6
4/20/2007	22:30:00	15.9	7.90	97.4
4/20/2007	22:45:00	15.9	7.91	97.3
4/20/2007	23:00:00	15.8	7.92	97.3
4/20/2007	23:15:00	15.7	7.93	97.3
4/20/2007	23:30:00	15.6	7.94	97.2
4/20/2007	23:45:00	15.6	7.95	97.1
4/21/2007	0:00:00	15.5	7.96	97.1
4/21/2007	0:15:00	15.4	7.96	97.1
4/21/2007	0:30:00	15.4	7.92	96.5
4/21/2007	0:45:00	15.3	7.86	95.6
4/21/2007	1:00:00	15.3	7.89	95.9
4/21/2007	1:15:00	15.2	7.92	96.1
4/21/2007	1:30:00	15.2	7.93	96.3
4/21/2007	1:45:00	15.2	7.98	96.8
4/21/2007	2:00:00	15.1	7.99	96.9
4/21/2007	2:15:00	15.1	8.01	96.9
4/21/2007	2:30:00	15.0	8.02	96.9
4/21/2007	2:45:00	15.0	8.03	97.0
4/21/2007	3:00:00	14.9	8.05	97.0
4/21/2007	3:15:00	14.8	8.07	97.0
4/21/2007	3:30:00	14.7	8.09	97.1
4/21/2007	3:45:00	14.6	8.11	97.1
4/21/2007	4:00:00	14.5	8.13	97.2
4/21/2007	4:15:00	14.4	8.10	96.6
4/21/2007	4:30:00	14.3	8.00	95.2
4/21/2007	4:45:00	14.2	7.75	92.0
4/21/2007	5:00:00	14.1	7.47	88.5
4/21/2007	5:15:00	14.0	7.19	84.9
4/21/2007	5:30:00	13.9	7.07	83.4
4/21/2007	5:45:00	13.8	7.00	82.3
4/21/2007	6:00:00	13.7	6.89	80.8
4/21/2007	6:15:00	13.6	6.75	79.0
4/21/2007	6:30:00	13.5	6.59	77.0
4/21/2007	6:45:00	13.4	6.45	75.2
4/21/2007	7:00:00	13.3	6.35	73.9
4/21/2007	7:15:00	13.2	6.29	73.1
4/21/2007	7:30:00	13.2	6.23	72.3

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	7:45:00	13.1	6.16	71.3
4/21/2007	8:00:00	13.1	6.08	70.4
4/21/2007	8:15:00	13.0	6.01	69.5
4/21/2007	8:30:00	13.0	5.93	68.5
4/21/2007	8:45:00	13.0	5.85	67.6
4/21/2007	9:00:00	13.0	5.76	66.5
4/21/2007	9:15:00	13.0	5.67	65.5
4/21/2007	9:30:00	13.1	5.58	64.6
4/21/2007	9:45:00	13.2	5.53	64.1
4/21/2007	10:00:00	13.2	5.52	64.1
4/21/2007	10:15:00	13.4	5.57	64.9
4/21/2007	10:30:00	13.5	5.61	65.5
4/21/2007	10:45:00	13.5	5.64	65.9
4/21/2007	11:00:00	13.4	5.66	66.0
4/21/2007	11:15:00	13.4	5.67	66.1
4/21/2007	11:30:00	13.4	5.67	66.1
4/21/2007	11:45:00	13.4	5.66	66.0
4/21/2007	12:00:00	13.3	5.66	65.8
4/21/2007	12:15:00	13.3	5.65	65.8
4/21/2007	12:30:00	13.4	5.66	65.9
4/21/2007	12:45:00	13.5	5.65	66.0
4/21/2007	13:00:00	13.5	5.65	66.0
4/21/2007	13:15:00	13.7	5.60	65.7
4/21/2007	13:30:00	13.9	5.53	65.2
4/21/2007	13:45:00	13.9	5.53	65.2
4/21/2007	14:00:00	13.8	5.50	64.6
4/21/2007	14:15:00	13.8	5.49	64.6
4/21/2007	14:30:00	13.9	5.49	64.7
4/21/2007	14:45:00	13.9	5.43	64.0
4/21/2007	15:00:00	14.0	5.42	64.1
4/21/2007	15:15:00	14.0	5.41	63.9
4/21/2007	15:30:00	13.9	5.41	63.7
4/21/2007	15:45:00	13.9	5.40	63.6
4/21/2007	16:00:00	13.9	5.38	63.4
4/21/2007	16:15:00	14.1	5.33	63.1
4/21/2007	16:30:00	14.4	5.26	62.7
4/21/2007	16:45:00	14.6	5.20	62.2
4/21/2007	17:00:00	14.6	5.18	62.0
4/21/2007	17:15:00	14.6	5.18	62.0
4/21/2007	17:30:00	14.8	5.17	62.1
4/21/2007	17:45:00	14.7	5.16	61.9
4/21/2007	18:00:00	14.7	5.15	61.8
4/21/2007	18:15:00	14.6	5.15	61.7
4/21/2007	18:30:00	14.6	5.14	61.5
4/21/2007	18:45:00	14.4	5.08	60.6
4/21/2007	19:00:00	14.3	4.89	58.2

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	19:15:00	14.2	4.81	57.2
4/21/2007	19:30:00	14.1	4.75	56.2
4/21/2007	19:45:00	14.0	4.63	54.7
4/21/2007	20:00:00	14.0	4.50	53.1
4/21/2007	20:15:00	13.9	4.43	52.2
4/21/2007	20:30:00	13.8	4.44	52.2
4/21/2007	20:45:00	13.7	4.47	52.5
4/21/2007	21:00:00	13.7	4.41	51.7
4/21/2007	21:15:00	13.5	4.39	51.3
4/21/2007	21:30:00	13.4	4.38	51.1
4/21/2007	21:45:00	13.3	4.37	50.9
4/21/2007	22:00:00	13.2	4.41	51.2
4/21/2007	22:15:00	13.1	4.47	51.8
4/21/2007	22:30:00	13.1	4.47	51.7
4/21/2007	22:45:00	12.9	4.42	51.0
4/21/2007	23:00:00	12.8	4.36	50.1
4/21/2007	23:15:00	12.7	4.31	49.5
4/21/2007	23:30:00	12.6	4.33	49.6
4/21/2007	23:45:00	12.5	4.35	49.7
4/22/2007	0:00:00	12.4	4.45	50.8
4/22/2007	0:15:00	12.3	4.39	49.9
4/22/2007	0:30:00	12.2	4.58	52.0
4/22/2007	0:45:00	12.1	4.75	53.8
4/22/2007	1:00:00	12.0	4.87	55.0
4/22/2007	1:15:00	11.9	5.01	56.5
4/22/2007	1:30:00	11.8	5.25	59.1
4/22/2007	1:45:00	11.7	5.55	62.3
4/22/2007	2:00:00	11.6	5.81	65.0
4/22/2007	2:15:00	11.6	6.04	67.6
4/22/2007	2:30:00	11.5	6.17	68.8
4/22/2007	2:45:00	11.4	6.20	69.0
4/22/2007	3:00:00	11.3	6.26	69.6
4/22/2007	3:15:00	11.2	6.31	70.0
4/22/2007	3:30:00	11.1	6.36	70.4
4/22/2007	3:45:00	11.0	6.39	70.6
4/22/2007	4:00:00	11.0	6.44	70.9
4/22/2007	4:15:00	10.9	6.46	71.0
4/22/2007	4:30:00	10.8	6.49	71.2
4/22/2007	4:45:00	10.7	6.51	71.3
4/22/2007	5:00:00	10.6	6.54	71.5
4/22/2007	5:15:00	10.4	6.58	71.7
4/22/2007	5:30:00	10.3	6.64	72.1
4/22/2007	5:45:00	10.3	6.69	72.6
4/22/2007	6:00:00	10.2	6.76	73.2
4/22/2007	6:15:00	10.1	6.84	73.8
4/22/2007	6:30:00	10.0	6.96	75.0

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	6:45:00	9.9	7.15	76.9
4/22/2007	7:00:00	9.8	7.40	79.4
4/22/2007	7:15:00	9.8	7.75	83.1
4/22/2007	7:30:00	9.7	7.89	84.5
4/22/2007	7:45:00	9.7	7.71	82.5
4/22/2007	8:00:00	9.7	7.54	80.6
4/22/2007	8:15:00	9.7	7.38	79.0
4/22/2007	8:30:00	9.8	7.22	77.5
4/22/2007	8:45:00	9.9	7.08	76.0
4/22/2007	9:00:00	9.9	6.94	74.7
4/22/2007	9:15:00	10.1	6.82	73.6
4/22/2007	9:30:00	10.2	6.69	72.5
4/22/2007	9:45:00	10.4	6.56	71.4
4/22/2007	10:00:00	10.6	6.44	70.5
4/22/2007	10:15:00	10.8	6.48	71.2
4/22/2007	10:30:00	11.0	7.96	87.9
4/22/2007	10:45:00	11.3	8.63	95.9
4/22/2007	11:00:00	11.5	8.66	96.8
4/22/2007	11:15:00	11.8	8.68	97.5
4/22/2007	11:30:00	12.1	8.66	98.0
4/22/2007	11:45:00	12.3	8.59	97.8
4/22/2007	12:00:00	12.6	8.52	97.6
4/22/2007	12:15:00	12.9	8.45	97.5
4/22/2007	12:30:00	13.2	8.36	97.1
4/22/2007	12:45:00	13.5	8.35	97.7
4/22/2007	13:00:00	13.8	8.29	97.6
4/22/2007	13:15:00	14.1	8.16	96.6
4/22/2007	13:30:00	14.4	7.98	95.1
4/22/2007	13:45:00	14.7	7.82	93.8
4/22/2007	14:00:00	14.9	7.61	91.6
4/22/2007	14:15:00	15.2	7.38	89.5
4/22/2007	14:30:00	15.5	7.13	87.0
4/22/2007	14:45:00	15.7	6.86	84.2
4/22/2007	15:00:00	16.0	6.61	81.6
4/22/2007	15:15:00	16.1	6.36	78.7
4/22/2007	15:30:00	16.2	6.09	75.5
4/22/2007	15:45:00	16.3	5.85	72.7
4/22/2007	16:00:00	16.6	5.57	69.6
4/22/2007	16:15:00	16.6	5.27	65.8
4/22/2007	16:30:00	16.6	5.06	63.3
4/22/2007	16:45:00	16.7	4.87	61.0
4/22/2007	17:00:00	16.7	4.69	58.9
4/22/2007	17:15:00	16.7	4.53	56.7
4/22/2007	17:30:00	16.7	4.37	54.7
4/22/2007	17:45:00	16.8	4.21	52.9
4/22/2007	18:00:00	16.7	4.07	50.9

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	18:15:00	16.6	3.93	49.1
4/22/2007	18:30:00	16.5	3.71	46.3
4/22/2007	18:45:00	16.4	3.59	44.7
4/22/2007	19:00:00	16.3	3.47	43.2
4/22/2007	19:15:00	16.2	3.32	41.1
4/22/2007	19:30:00	16.1	3.11	38.5
4/22/2007	19:45:00	15.9	3.02	37.3
4/22/2007	20:00:00	15.8	2.96	36.4
4/22/2007	20:15:00	15.7	2.88	35.3
4/22/2007	20:30:00	15.6	2.82	34.5
4/22/2007	20:45:00	15.5	2.74	33.5
4/22/2007	21:00:00	15.4	2.69	32.8
4/22/2007	21:15:00	15.3	2.64	32.1
4/22/2007	21:30:00	15.2	2.58	31.3
4/22/2007	21:45:00	15.2	2.52	30.5
4/22/2007	22:00:00	15.1	2.46	29.8
4/22/2007	22:15:00	15.0	2.41	29.1
4/22/2007	22:30:00	14.9	2.33	28.1
4/22/2007	22:45:00	14.9	2.27	27.4
4/22/2007	23:00:00	14.8	2.22	26.7
4/22/2007	23:15:00	14.7	2.17	26.1
4/22/2007	23:30:00	14.7	2.13	25.6
4/22/2007	23:45:00	14.6	2.10	25.1
4/23/2007	0:00:00	14.6	2.06	24.7
4/23/2007	0:15:00	14.6	2.03	24.3
4/23/2007	0:30:00	14.6	2.00	24.0
4/23/2007	0:45:00	14.5	1.98	23.7
4/23/2007	1:00:00	14.5	1.97	23.5
4/23/2007	1:15:00	14.5	1.96	23.4
4/23/2007	1:30:00	14.5	1.96	23.3
4/23/2007	1:45:00	14.4	1.95	23.3
4/23/2007	2:00:00	14.3	1.95	23.2
4/23/2007	2:15:00	14.3	1.95	23.1
4/23/2007	2:30:00	14.2	1.94	23.1
4/23/2007	2:45:00	14.1	1.95	23.0
4/23/2007	3:00:00	14.0	1.95	23.1
4/23/2007	3:15:00	13.9	1.96	23.1
4/23/2007	3:30:00	13.8	1.97	23.3
4/23/2007	3:45:00	13.7	1.99	23.4
4/23/2007	4:00:00	13.7	2.01	23.5
4/23/2007	4:15:00	13.5	2.03	23.7
4/23/2007	4:30:00	13.4	2.05	23.9
4/23/2007	4:45:00	13.3	2.07	24.1
4/23/2007	5:00:00	13.2	2.10	24.4
4/23/2007	5:15:00	13.1	2.13	24.7
4/23/2007	5:30:00	13.0	2.16	24.9

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	5:45:00	12.9	2.19	25.2
4/23/2007	6:00:00	12.8	2.22	25.5
4/23/2007	6:15:00	12.6	2.26	25.9
4/23/2007	6:30:00	12.5	2.30	26.2
4/23/2007	6:45:00	12.4	2.34	26.6
4/23/2007	7:00:00	12.3	2.38	27.0
4/23/2007	7:15:00	12.2	2.42	27.4
4/23/2007	7:30:00	12.1	2.46	27.8
4/23/2007	7:45:00	12.1	2.49	28.2
4/23/2007	8:00:00	12.1	2.53	28.7
4/23/2007	8:15:00	12.2	2.57	29.1
4/23/2007	8:30:00	12.2	2.60	29.6
4/23/2007	8:45:00	12.3	2.63	29.9
4/23/2007	9:00:00	12.4	2.66	30.3
4/23/2007	9:15:00	12.5	2.67	30.6
4/23/2007	9:30:00	12.7	2.68	30.8
4/23/2007	9:45:00	12.8	2.69	31.0
4/23/2007	10:00:00	12.9	2.70	31.1
4/23/2007	10:15:00	12.9	2.71	31.2
4/23/2007	10:30:00	13.0	2.71	31.3
4/23/2007	10:45:00	13.3	2.71	31.5
4/23/2007	11:00:00	13.5	2.69	31.5
4/23/2007	11:15:00	13.5	2.68	31.4
4/23/2007	11:30:00	13.6	2.67	31.3
4/23/2007	11:45:00	13.8	2.66	31.3
4/23/2007	12:00:00	14.2	2.63	31.2
4/23/2007	12:15:00	14.5	2.60	31.0
4/23/2007	12:30:00	14.9	2.55	30.8
4/23/2007	12:45:00	15.2	2.50	30.4
4/23/2007	13:00:00	15.5	2.44	29.8
4/23/2007	13:15:00	15.9	2.38	29.2
4/23/2007	13:30:00	16.0	2.30	28.5
4/23/2007	13:45:00	16.2	2.23	27.7
4/23/2007	14:00:00	16.3	2.15	26.7
4/23/2007	14:15:00	16.5	2.08	25.9
4/23/2007	14:30:00	16.7	2.01	25.2
4/23/2007	14:45:00	17.0	1.94	24.5
4/23/2007	15:00:00	17.0	1.88	23.7
4/23/2007	15:15:00	17.1	1.82	23.1
4/23/2007	15:30:00	17.1	1.77	22.4
4/23/2007	15:45:00	17.1	1.74	21.9
4/23/2007	16:00:00	17.1	1.70	21.5
4/23/2007	16:15:00	17.2	1.68	21.2
4/23/2007	16:30:00	17.1	1.65	20.9
4/23/2007	16:45:00	17.0	1.64	20.7
4/23/2007	17:00:00	17.0	1.63	20.6

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	17:15:00	17.0	1.62	20.4
4/23/2007	17:30:00	16.9	1.61	20.3
4/23/2007	17:45:00	16.9	1.60	20.2
4/23/2007	18:00:00	16.8	1.59	20.0
4/23/2007	18:15:00	16.6	1.59	19.8
4/23/2007	18:30:00	16.5	1.58	19.7
4/23/2007	18:45:00	16.4	1.57	19.5
4/23/2007	19:00:00	16.2	1.56	19.3
4/23/2007	19:15:00	16.0	1.55	19.1
4/23/2007	19:30:00	15.9	1.52	18.7
4/23/2007	19:45:00	15.7	1.51	18.5
4/23/2007	20:00:00	15.5	1.51	18.4
4/23/2007	20:15:00	15.3	1.52	18.5
4/23/2007	20:30:00	15.1	1.53	18.5
4/23/2007	20:45:00	15.0	1.52	18.4
4/23/2007	21:00:00	14.9	1.53	18.4
4/23/2007	21:15:00	14.8	1.55	18.6
4/23/2007	21:30:00	14.7	1.57	18.9
4/23/2007	21:45:00	14.6	1.60	19.1
4/23/2007	22:00:00	14.5	1.62	19.4
4/23/2007	22:15:00	14.5	1.64	19.6
4/23/2007	22:30:00	14.5	1.67	20.0
4/23/2007	22:45:00	14.4	1.70	20.3
4/23/2007	23:00:00	14.2	1.73	20.6
4/23/2007	23:15:00	14.1	1.76	20.9
4/23/2007	23:30:00	14.1	1.79	21.2
4/23/2007	23:45:00	14.1	1.80	21.3
4/24/2007	0:00:00	14.0	1.81	21.4
4/24/2007	0:15:00	14.1	1.81	21.5
4/24/2007	0:30:00	14.0	1.83	21.6
4/24/2007	0:45:00	14.0	1.83	21.6
4/24/2007	1:00:00	13.9	1.84	21.7
4/24/2007	1:15:00	13.8	1.82	21.4
4/24/2007	1:30:00	13.8	1.82	21.4
4/24/2007	1:45:00	13.7	1.85	21.7
4/24/2007	2:00:00	13.6	1.86	21.8
4/24/2007	2:15:00	13.5	1.89	22.1
4/24/2007	2:30:00	13.4	1.93	22.5
4/24/2007	2:45:00	13.3	1.95	22.7
4/24/2007	3:00:00	13.1	1.95	22.6
4/24/2007	3:15:00	13.0	1.95	22.6
4/24/2007	3:30:00	12.9	1.97	22.7
4/24/2007	3:45:00	12.8	2.00	23.0
4/24/2007	4:00:00	12.7	2.03	23.3
4/24/2007	4:15:00	12.6	2.04	23.4
4/24/2007	4:30:00	12.5	2.07	23.6

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	4:45:00	12.4	2.12	24.1
4/24/2007	5:00:00	12.3	2.16	24.5
4/24/2007	5:15:00	12.2	2.15	24.3
4/24/2007	5:30:00	12.0	2.20	24.8
4/24/2007	5:45:00	11.9	2.25	25.4
4/24/2007	6:00:00	11.8	2.28	25.6
4/24/2007	6:15:00	11.7	2.29	25.6
4/24/2007	6:30:00	11.6	2.30	25.8
4/24/2007	6:45:00	11.5	2.27	25.3
4/24/2007	7:00:00	11.4	2.30	25.6
4/24/2007	7:15:00	11.3	2.34	26.0
4/24/2007	7:30:00	11.2	2.36	26.1
4/24/2007	7:45:00	11.1	2.39	26.4
4/24/2007	8:00:00	11.1	2.41	26.7
4/24/2007	8:15:00	11.1	2.44	27.0
4/24/2007	8:30:00	11.1	2.46	27.2
4/24/2007	8:45:00	11.0	2.49	27.5
4/24/2007	9:00:00	11.1	2.54	28.1
4/24/2007	9:15:00	11.1	2.60	28.7
4/24/2007	9:30:00	11.2	2.62	29.1
4/24/2007	9:45:00	11.3	2.64	29.3
4/24/2007	10:00:00	11.4	2.67	29.7
4/24/2007	10:15:00	11.7	2.70	30.2
4/24/2007	10:30:00	11.7	2.72	30.5
4/24/2007	10:45:00	11.9	2.76	31.1
4/24/2007	11:00:00	12.1	2.78	31.5
4/24/2007	11:15:00	12.6	2.80	32.1
4/24/2007	11:30:00	12.7	2.79	32.0
4/24/2007	11:45:00	12.7	8.72*	100.0
4/24/2007	12:00:00	12.9	8.63	99.5
4/24/2007	12:15:00	13.0	8.40	96.9
4/24/2007	12:30:00	12.9	8.20	94.5
4/24/2007	12:45:00	12.9	8.07	92.9
4/24/2007	13:00:00	12.9	7.90	91.2
4/24/2007	13:15:00	12.9	7.72	89.0
4/24/2007	13:30:00	12.9	7.49	86.4
4/24/2007	13:45:00	13.0	7.24	83.6
4/24/2007	14:00:00	13.1	6.94	80.3
4/24/2007	14:15:00	13.1	6.66	77.2
4/24/2007	14:30:00	13.3	6.39	74.3
4/24/2007	14:45:00	13.5	6.13	71.6
4/24/2007	15:00:00	13.5	5.89	68.9
4/24/2007	15:15:00	13.6	5.66	66.3
4/24/2007	15:30:00	13.6	5.44	63.8
4/24/2007	15:45:00	13.6	5.24	61.4
4/24/2007	16:00:00	13.6	5.04	59.1

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	16:15:00	13.6	4.87	57.0
4/24/2007	16:30:00	13.6	4.70	55.1
4/24/2007	16:45:00	13.6	4.55	53.3
4/24/2007	17:00:00	13.9	4.40	51.9
4/24/2007	17:15:00	13.8	4.27	50.3
4/24/2007	17:30:00	13.8	4.16	48.9
4/24/2007	17:45:00	13.8	4.05	47.7
4/24/2007	18:00:00	13.8	3.96	46.7
4/24/2007	18:15:00	13.8	3.88	45.7
4/24/2007	18:30:00	13.8	3.82	44.9
4/24/2007	18:45:00	13.7	3.76	44.2
4/24/2007	19:00:00	13.6	3.73	43.6
4/24/2007	19:15:00	13.5	3.70	43.2
4/24/2007	19:30:00	13.4	3.68	42.8
4/24/2007	19:45:00	13.3	3.67	42.7
4/24/2007	20:00:00	13.2	3.66	42.5
4/24/2007	20:15:00	13.1	3.65	42.3
4/24/2007	20:30:00	13.0	3.64	42.2
4/24/2007	20:45:00	13.0	3.65	42.1
4/24/2007	21:00:00	13.0	3.64	42.0
4/24/2007	21:15:00	12.9	3.63	41.9
4/24/2007	21:30:00	12.9	3.64	41.9
4/24/2007	21:45:00	12.8	3.65	42.0
4/24/2007	22:00:00	12.8	3.65	42.0
4/24/2007	22:15:00	12.7	3.66	42.0
4/24/2007	22:30:00	12.7	3.67	42.1
4/24/2007	22:45:00	12.6	3.69	42.2
4/24/2007	23:00:00	12.5	3.70	42.3
4/24/2007	23:15:00	12.5	3.71	42.4
4/24/2007	23:30:00	12.4	3.73	42.5
4/24/2007	23:45:00	12.3	3.75	42.6
4/25/2007	0:00:00	12.3	3.77	42.8
4/25/2007	0:15:00	12.2	3.78	42.9
4/25/2007	0:30:00	12.2	3.80	43.1
4/25/2007	0:45:00	12.1	3.83	43.4
4/25/2007	1:00:00	12.0	3.85	43.5
4/25/2007	1:15:00	12.0	3.87	43.7
4/25/2007	1:30:00	11.9	3.90	43.9
4/25/2007	1:45:00	11.8	3.92	44.1
4/25/2007	2:00:00	11.8	3.95	44.4
4/25/2007	2:15:00	11.7	3.98	44.6
4/25/2007	2:30:00	11.6	4.00	44.8
4/25/2007	2:45:00	11.5	4.03	45.1
4/25/2007	3:00:00	11.5	4.06	45.3
4/25/2007	3:15:00	11.4	4.09	45.6
4/25/2007	3:30:00	11.3	4.12	45.8

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	3:45:00	11.3	4.15	46.1
4/25/2007	4:00:00	11.2	4.19	46.4
4/25/2007	4:15:00	11.1	4.22	46.7
4/25/2007	4:30:00	11.0	4.25	46.9
4/25/2007	4:45:00	10.9	4.29	47.2
4/25/2007	5:00:00	10.8	4.32	47.5
4/25/2007	5:15:00	10.8	4.36	47.8
4/25/2007	5:30:00	10.7	4.39	48.1
4/25/2007	5:45:00	10.6	4.43	48.4
4/25/2007	6:00:00	10.5	4.47	48.7
4/25/2007	6:15:00	10.4	4.51	49.1
4/25/2007	6:30:00	10.3	4.55	49.4
4/25/2007	6:45:00	10.2	4.60	49.8
4/25/2007	7:00:00	10.1	4.64	50.1
4/25/2007	7:15:00	10.0	4.68	50.5
4/25/2007	7:30:00	10.0	4.73	50.9
4/25/2007	7:45:00	10.0	4.77	51.4
4/25/2007	8:00:00	10.1	4.80	51.9
4/25/2007	8:15:00	10.2	4.84	52.3
4/25/2007	8:30:00	10.3	4.86	52.8
4/25/2007	8:45:00	10.4	4.89	53.3
4/25/2007	9:00:00	10.6	4.91	53.7
4/25/2007	9:15:00	10.8	4.93	54.1
4/25/2007	9:30:00	11.0	4.94	54.5
4/25/2007	9:45:00	11.2	4.94	54.9
4/25/2007	10:00:00	11.5	4.94	55.2
4/25/2007	10:15:00	11.8	4.94	55.4
4/25/2007	10:30:00	12.0	4.92	55.6
4/25/2007	10:45:00	12.3	4.90	55.8
4/25/2007	11:00:00	12.6	4.88	55.9
4/25/2007	11:15:00	12.9	4.85	56.0
4/25/2007	11:30:00	13.2	4.82	55.9
4/25/2007	11:45:00	13.6	4.78	55.9
4/25/2007	12:00:00	13.9	4.73	55.8
4/25/2007	12:15:00	14.3	4.68	55.6
4/25/2007	12:30:00	14.6	4.62	55.3
4/25/2007	12:45:00	14.9	4.56	55.0
4/25/2007	13:00:00	15.2	4.50	54.6
4/25/2007	13:15:00	15.6	4.43	54.1
4/25/2007	13:30:00	15.9	4.35	53.6
4/25/2007	13:45:00	16.2	4.27	53.0
4/25/2007	14:00:00	16.5	4.20	52.4
4/25/2007	14:15:00	16.8	4.12	51.7
4/25/2007	14:30:00	17.0	4.04	50.9
4/25/2007	14:45:00	17.3	3.95	50.1
4/25/2007	15:00:00	17.6	3.86	49.3

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	15:15:00	17.8	3.77	48.4
4/25/2007	15:30:00	18.0	3.69	47.5
4/25/2007	15:45:00	18.2	3.61	46.6
4/25/2007	16:00:00	18.3	3.52	45.7
4/25/2007	16:15:00	18.5	3.44	44.8
4/25/2007	16:30:00	18.6	3.36	43.9
4/25/2007	16:45:00	18.8	3.29	43.0
4/25/2007	17:00:00	18.8	3.21	42.1
4/25/2007	17:15:00	18.8	3.15	41.2
4/25/2007	17:30:00	18.7	3.10	40.5
4/25/2007	17:45:00	18.7	3.05	39.9
4/25/2007	18:00:00	18.6	3.01	39.3
4/25/2007	18:15:00	18.6	2.98	38.8
4/25/2007	18:30:00	18.4	2.94	38.2
4/25/2007	18:45:00	18.3	2.92	37.8
4/25/2007	19:00:00	18.2	2.90	37.5
4/25/2007	19:15:00	18.1	2.89	37.3
4/25/2007	19:30:00	18.0	2.88	37.1
4/25/2007	19:45:00	17.9	2.88	36.9
4/25/2007	20:00:00	17.7	2.88	36.8
4/25/2007	20:15:00	17.7	2.88	36.8
4/25/2007	20:30:00	17.6	2.89	36.8
4/25/2007	20:45:00	17.5	2.89	36.8
4/25/2007	21:00:00	17.4	2.90	36.9
4/25/2007	21:15:00	17.3	2.92	37.0
4/25/2007	21:30:00	17.1	2.93	37.0
4/25/2007	21:45:00	17.1	2.94	37.1
4/25/2007	22:00:00	16.9	2.95	37.1
4/25/2007	22:15:00	16.8	2.96	37.2
4/25/2007	22:30:00	16.7	2.97	37.2
4/25/2007	22:45:00	16.6	2.99	37.4
4/25/2007	23:00:00	16.5	3.01	37.6
4/25/2007	23:15:00	16.4	3.04	37.9
4/25/2007	23:30:00	16.3	3.07	38.1
4/25/2007	23:45:00	16.2	3.09	38.3
4/26/2007	0:00:00	16.0	3.12	38.5
4/26/2007	0:15:00	15.9	3.15	38.8
4/26/2007	0:30:00	15.9	3.17	39.1
4/26/2007	0:45:00	15.8	3.20	39.3
4/26/2007	1:00:00	15.8	3.23	39.6
4/26/2007	1:15:00	15.7	3.26	39.9
4/26/2007	1:30:00	15.6	3.28	40.1
4/26/2007	1:45:00	15.5	3.31	40.4
4/26/2007	2:00:00	15.4	3.33	40.6
4/26/2007	2:15:00	15.4	3.36	40.9
4/26/2007	2:30:00	15.3	3.38	41.1

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	2:45:00	15.2	3.41	41.3
4/26/2007	3:00:00	15.1	3.44	41.6
4/26/2007	3:15:00	15.0	3.47	41.9
4/26/2007	3:30:00	14.9	3.50	42.2
4/26/2007	3:45:00	14.7	3.53	42.4
4/26/2007	4:00:00	14.6	3.56	42.6
4/26/2007	4:15:00	14.5	3.59	42.9
4/26/2007	4:30:00	14.4	3.62	43.1
4/26/2007	4:45:00	14.4	3.65	43.4
4/26/2007	5:00:00	14.3	3.68	43.7
4/26/2007	5:15:00	14.1	3.71	44.0
4/26/2007	5:30:00	14.0	3.74	44.3
4/26/2007	5:45:00	13.9	3.77	44.5
4/26/2007	6:00:00	13.8	3.80	44.7
4/26/2007	6:15:00	13.7	3.84	45.0
4/26/2007	6:30:00	13.6	3.88	45.4
4/26/2007	6:45:00	13.5	3.92	45.8
4/26/2007	7:00:00	13.4	3.96	46.2
4/26/2007	7:15:00	13.3	4.00	46.6
4/26/2007	7:30:00	13.3	4.04	47.1
4/26/2007	7:45:00	13.3	4.09	47.6
4/26/2007	8:00:00	13.3	4.13	48.1
4/26/2007	8:15:00	13.4	4.17	48.6
4/26/2007	8:30:00	13.5	4.21	49.1
4/26/2007	8:45:00	13.6	4.23	49.5
4/26/2007	9:00:00	13.7	4.24	49.8
4/26/2007	9:15:00	13.9	4.26	50.2
4/26/2007	9:30:00	14.1	4.27	50.6
4/26/2007	9:45:00	14.3	4.27	50.8
4/26/2007	10:00:00	14.5	4.27	51.0
4/26/2007	10:15:00	14.8	4.26	51.2
4/26/2007	10:30:00	15.0	4.25	51.4
4/26/2007	10:45:00	15.3	4.24	51.6
4/26/2007	11:00:00	15.5	4.23	51.7
4/26/2007	11:15:00	15.8	4.20	51.6
4/26/2007	11:30:00	16.2	4.17	51.7
4/26/2007	11:45:00	16.4	4.14	51.6
4/26/2007	12:00:00	16.8	4.11	51.5
4/26/2007	12:15:00	17.1	4.07	51.3
4/26/2007	12:30:00	17.4	4.02	51.2
4/26/2007	12:45:00	17.7	3.98	50.9
4/26/2007	13:00:00	18.0	3.92	50.5
4/26/2007	13:15:00	18.3	3.87	50.1
4/26/2007	13:30:00	18.6	3.81	49.7
4/26/2007	13:45:00	18.9	3.76	49.3
4/26/2007	14:00:00	19.2	3.72	49.1

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	14:15:00	19.4	3.69	48.9
4/26/2007	14:30:00	19.2	-1.60	-21.1
4/26/2007	14:45:00	19.8	3.65	48.8
4/26/2007	15:00:00	19.7	-1.60	-21.4
4/26/2007	15:15:00	20.0	-1.60	-21.5
4/26/2007	15:30:00	20.4	3.55	47.9
4/26/2007	15:45:00	20.6	3.49	47.4
4/26/2007	16:00:00	20.8	3.43	46.7
4/26/2007	16:15:00	20.9	3.36	45.9
4/26/2007	16:30:00	21.0	3.28	44.9
4/26/2007	16:45:00	21.1	3.18	43.6
4/26/2007	17:00:00	21.1	3.09	42.4
4/26/2007	17:15:00	21.2	3.00	41.2
4/26/2007	17:30:00	21.1	2.91	39.9
4/26/2007	17:45:00	21.0	2.84	38.9
4/26/2007	18:00:00	21.0	2.79	38.1
4/26/2007	18:15:00	20.8	2.74	37.3
4/26/2007	18:30:00	20.6	2.68	36.4
4/26/2007	18:45:00	20.6	2.63	35.7
4/26/2007	19:00:00	20.6	2.58	35.0
4/26/2007	19:15:00	20.6	2.53	34.4
4/26/2007	19:30:00	20.5	2.49	33.8
4/26/2007	19:45:00	20.4	2.46	33.3
4/26/2007	20:00:00	20.3	2.42	32.7
4/26/2007	20:15:00	20.1	2.38	32.0
4/26/2007	20:30:00	20.0	2.35	31.5
4/26/2007	20:45:00	19.6	-1.60	-21.3
4/26/2007	21:00:00	19.5	-1.60	-21.2
4/26/2007	21:15:00	19.6	2.30	30.7
4/26/2007	21:30:00	19.3	-1.60	-21.1
4/26/2007	21:45:00	19.4	2.31	30.6
4/26/2007	22:00:00	19.3	2.32	30.7
4/26/2007	22:15:00	19.2	2.33	30.8
4/26/2007	22:30:00	19.1	2.34	30.8
4/26/2007	22:45:00	18.7	-1.60	-20.9
4/26/2007	23:00:00	18.8	2.37	31.0
4/26/2007	23:15:00	18.7	2.39	31.2
4/26/2007	23:30:00	18.6	2.40	31.3
4/26/2007	23:45:00	18.5	2.41	31.4
4/27/2007	0:00:00	18.4	2.43	31.5
4/27/2007	0:15:00	18.3	2.44	31.6
4/27/2007	0:30:00	18.1	2.46	31.8
4/27/2007	0:45:00	18.0	2.48	32.0
4/27/2007	1:00:00	17.9	2.50	32.1
4/27/2007	1:15:00	17.9	2.52	32.3
4/27/2007	1:30:00	17.8	2.53	32.4

Table 5.31. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/27/2007	1:45:00	17.6	2.55	32.6
4/27/2007	2:00:00	17.6	2.58	32.9
4/27/2007	2:15:00	17.5	2.60	33.1
4/27/2007	2:30:00	17.4	2.63	33.4
4/27/2007	2:45:00	17.3	2.66	33.7
4/27/2007	3:00:00	17.2	2.69	34.0
4/27/2007	3:15:00	17.1	2.71	34.2
4/27/2007	3:30:00	17.0	2.72	34.3
4/27/2007	3:45:00	16.8	2.74	34.4
4/27/2007	4:00:00	16.7	2.75	34.5
4/27/2007	4:15:00	16.6	2.76	34.5
4/27/2007	4:30:00	16.5	2.77	34.5
4/27/2007	4:45:00	16.3	2.79	34.7
4/27/2007	5:00:00	16.2	2.81	34.8
4/27/2007	5:15:00	16.1	2.83	35.0
4/27/2007	5:30:00	16.0	2.85	35.2
4/27/2007	5:45:00	15.8	2.88	35.4
4/27/2007	6:00:00	15.7	2.92	35.8
4/27/2007	6:15:00	15.6	2.96	36.2
4/27/2007	6:30:00	15.4	3.01	36.7
4/27/2007	6:45:00	15.3	3.08	37.4
4/27/2007	7:00:00	15.2	3.14	38.1
4/27/2007	7:15:00	15.2	3.19	38.7
4/27/2007	7:30:00	15.1	3.25	39.3
4/27/2007	7:45:00	15.1	3.29	39.8
4/27/2007	8:00:00	15.1	3.33	40.4
4/27/2007	8:15:00	15.2	3.37	40.9
4/27/2007	8:30:00	15.3	3.40	41.3
4/27/2007	8:45:00	15.4	3.42	41.7
4/27/2007	9:00:00	15.5	3.44	41.9
4/27/2007	9:15:00	15.6	3.45	42.1

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40184**	**Name**	**:**	**Homer**
Log	**File**	**Name**	**:**	**SITE3-4-20-2007**
Setup	**Date**	**(MMDDYY)**	**:**	**4/20/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**13:07:00**
Starting	**Date**	**(MMDDYY)**	**:**	
Starting	**Time**	**(HHMMSS)**	**:**	
Stopping	**Date**	**(MMDDYY)**	**:**	**4/27/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**9:05**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
4/20/2007	13:20:35	15.7	288	8.02	7.37	88.7
4/20/2007	13:35:35	15.8	288	8.03	7.31	88.1
4/20/2007	13:50:35	16.0	289	8.03	7.28	88.1
4/20/2007	14:05:35	16.2	289	8.04	7.20	87.5
4/20/2007	14:20:35	16.5	288	8.04	7.19	87.8
4/20/2007	14:35:35	16.6	283	8.07	7.16	87.7
4/20/2007	14:50:35	16.7	277	8.10	7.14	87.6
4/20/2007	15:05:35	16.9	285	8.06	7.09	87.4
4/20/2007	15:20:35	17.1	292	8.03	7.02	86.8
4/20/2007	15:35:35	17.2	291	8.04	6.99	86.8
4/20/2007	15:50:35	17.4	291	8.02	6.90	85.8
4/20/2007	16:05:35	17.5	292	8.03	6.88	85.9
4/20/2007	16:20:35	17.6	292	8.03	6.85	85.6
4/20/2007	16:35:35	17.6	291	8.03	6.83	85.4
4/20/2007	16:50:35	17.6	291	8.03	6.80	85.1
4/20/2007	17:05:35	17.6	290	8.02	6.77	84.6
4/20/2007	17:20:35	17.4	290	8.03	6.73	83.9
4/20/2007	17:35:35	17.3	289	8.02	6.69	83.2
4/20/2007	17:50:35	17.2	288	8.02	6.69	83.0
4/20/2007	18:05:35	17.0	288	8.02	6.69	82.7
4/20/2007	18:20:35	16.9	287	8.02	6.67	82.3
4/20/2007	18:35:35	16.8	286	8.02	6.64	81.8
4/20/2007	18:50:35	16.7	286	8.02	6.60	81.0
4/20/2007	19:05:35	16.6	285	8.02	6.59	80.7
4/20/2007	19:20:35	16.5	285	8.01	6.59	80.5
4/20/2007	19:35:35	16.4	283	8.01	6.55	80.0
4/20/2007	19:50:35	16.3	283	8.01	6.54	79.6
4/20/2007	20:05:35	16.3	282	8.02	6.52	79.3
4/20/2007	20:20:35	16.2	281	8.01	6.53	79.4
4/20/2007	20:35:35	16.2	280	8.01	6.49	78.8
4/20/2007	20:50:35	16.1	280	8.01	6.49	78.7
4/20/2007	21:05:35	16.1	279	8.03	6.46	78.3

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/20/2007	21:20:35	16.0	279	8.02	6.47	78.4
4/20/2007	21:35:35	16.0	278	8.02	6.52	78.8
4/20/2007	21:50:35	15.9	278	8.02	6.48	78.3
4/20/2007	22:05:35	15.9	278	8.01	6.46	78.0
4/20/2007	22:20:35	15.8	277	8.01	6.41	77.3
4/20/2007	22:35:35	15.7	277	8.01	6.48	78.0
4/20/2007	22:50:35	15.7	276	8.01	6.47	77.8
4/20/2007	23:05:35	15.6	276	8.01	6.50	77.9
4/20/2007	23:20:35	15.5	276	8.02	6.44	77.0
4/20/2007	23:35:35	15.4	276	8.02	6.48	77.5
4/20/2007	23:50:35	15.4	275	8.02	6.49	77.5
4/21/2007	0:05:35	15.3	276	8.02	6.50	77.4
4/21/2007	0:20:35	15.3	276	8.02	6.46	77.0
4/21/2007	0:35:35	15.2	276	8.02	6.48	77.0
4/21/2007	0:50:35	15.1	277	8.02	6.50	77.4
4/21/2007	1:05:35	15.1	278	8.02	6.47	76.7
4/21/2007	1:20:35	15.1	278	8.03	6.46	76.7
4/21/2007	1:35:35	15.0	278	8.02	6.47	76.6
4/21/2007	1:50:35	15.0	279	8.02	6.49	76.8
4/21/2007	2:05:35	15.0	280	8.03	6.49	76.8
4/21/2007	2:20:35	14.9	280	8.03	6.55	77.4
4/21/2007	2:35:35	14.9	280	8.02	6.56	77.4
4/21/2007	2:50:35	14.8	280	8.03	6.58	77.5
4/21/2007	3:05:35	14.7	280	8.03	6.56	77.2
4/21/2007	3:20:35	14.6	281	8.04	6.60	77.5
4/21/2007	3:35:35	14.5	281	8.03	6.58	77.1
4/21/2007	3:50:35	14.4	280	8.03	6.62	77.4
4/21/2007	4:05:35	14.3	280	8.03	6.65	77.6
4/21/2007	4:20:35	14.2	280	8.03	6.66	77.6
4/21/2007	4:35:35	14.1	281	8.03	6.65	77.3
4/21/2007	4:50:35	14.0	281	8.03	6.65	77.0
4/21/2007	5:05:35	13.9	281	8.03	6.67	77.1
4/21/2007	5:20:35	13.8	280	8.04	6.67	76.9
4/21/2007	5:35:35	13.7	280	8.04	6.72	77.3
4/21/2007	5:50:35	13.6	280	8.04	6.73	77.3
4/21/2007	6:05:35	13.5	279	8.04	6.75	77.2
4/21/2007	6:20:35	13.4	277	8.05	6.80	77.7
4/21/2007	6:35:35	13.3	277	8.05	6.84	78.1
4/21/2007	6:50:35	13.2	278	8.05	6.85	78.0
4/21/2007	7:05:35	13.1	277	8.05	6.85	77.8
4/21/2007	7:20:35	13.0	277	8.05	6.85	77.8
4/21/2007	7:35:35	13.0	276	8.05	6.89	77.9
4/21/2007	7:50:35	12.9	276	8.05	6.86	77.6
4/21/2007	8:05:35	12.9	275	8.05	6.88	77.8
4/21/2007	8:20:35	12.8	274	8.06	6.87	77.6
4/21/2007	8:35:35	12.8	274	8.06	6.89	77.7

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	8:50:35	12.8	274	8.06	6.92	78.0
4/21/2007	9:05:35	12.8	274	8.07	6.91	78.0
4/21/2007	9:20:35	12.9	274	8.07	6.91	78.1
4/21/2007	9:35:35	13.0	274	8.07	6.90	78.1
4/21/2007	9:50:35	13.0	273	8.08	6.93	78.6
4/21/2007	10:05:35	13.1	273	8.08	6.89	78.3
4/21/2007	10:20:35	13.2	273	8.09	6.90	78.6
4/21/2007	10:35:35	13.3	273	8.09	6.92	79.0
4/21/2007	10:50:35	13.3	273	8.09	6.91	78.9
4/21/2007	11:05:35	13.2	272	8.10	6.93	79.0
4/21/2007	11:20:35	13.2	273	8.10	6.95	79.2
4/21/2007	11:35:35	13.2	273	8.10	6.93	78.9
4/21/2007	11:50:35	13.1	274	8.09	6.95	79.0
4/21/2007	12:05:35	13.1	273	8.10	6.97	79.1
4/21/2007	12:20:35	13.2	273	8.10	7.00	79.6
4/21/2007	12:35:35	13.3	274	8.10	7.00	79.8
4/21/2007	12:50:35	13.3	274	8.10	6.97	79.3
4/21/2007	13:05:35	13.4	275	8.10	6.96	79.5
4/21/2007	13:20:35	13.7	275	8.10	6.96	80.0
4/21/2007	13:35:35	13.8	276	8.10	6.93	80.0
4/21/2007	13:50:35	13.7	276	8.10	6.95	80.0
4/21/2007	14:05:35	13.6	277	8.09	6.96	79.9
4/21/2007	14:20:35	13.7	277	8.09	6.91	79.5
4/21/2007	14:35:35	13.7	278	8.09	6.91	79.6
4/21/2007	14:50:35	13.8	279	8.09	6.96	80.3
4/21/2007	15:05:35	13.9	280	8.09	6.95	80.2
4/21/2007	15:20:35	13.8	282	8.09	6.95	80.1
4/21/2007	15:35:35	13.6	282	8.08	6.90	79.3
4/21/2007	15:50:35	13.7	285	8.08	6.94	79.9
4/21/2007	16:05:35	13.8	285	8.07	6.89	79.4
4/21/2007	16:20:35	14.0	287	8.07	6.84	79.3
4/21/2007	16:35:35	14.3	286	8.06	6.88	80.3
4/21/2007	16:50:35	14.4	287	8.06	6.85	80.0
4/21/2007	17:05:35	14.4	287	8.05	6.86	80.2
4/21/2007	17:20:35	14.5	288	8.05	6.85	80.3
4/21/2007	17:35:35	14.6	288	8.04	6.80	79.8
4/21/2007	17:50:35	14.5	288	8.04	6.81	79.8
4/21/2007	18:05:35	14.5	289	8.03	6.79	79.4
4/21/2007	18:20:35	14.5	288	8.03	6.80	79.5
4/21/2007	18:35:35	14.3	289	8.03	6.75	78.9
4/21/2007	18:50:35	14.2	288	8.03	6.74	78.5
4/21/2007	19:05:35	14.1	287	8.03	6.76	78.5
4/21/2007	19:20:35	14.0	289	8.02	6.73	78.0
4/21/2007	19:35:35	13.9	289	8.02	6.71	77.6
4/21/2007	19:50:35	13.8	289	8.02	6.70	77.3
4/21/2007	20:05:35	13.8	288	8.02	6.70	77.2

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/21/2007	20:20:35	13.7	288	8.02	6.70	77.1
4/21/2007	20:35:35	13.6	288	8.02	6.71	77.1
4/21/2007	20:50:35	13.5	288	8.02	6.71	76.9
4/21/2007	21:05:35	13.4	287	8.02	6.72	76.9
4/21/2007	21:20:35	13.3	286	8.02	6.72	76.7
4/21/2007	21:35:35	13.2	286	8.02	6.73	76.7
4/21/2007	21:50:35	13.1	286	8.03	6.76	76.8
4/21/2007	22:05:35	13.0	284	8.03	6.75	76.5
4/21/2007	22:20:35	12.9	284	8.03	6.75	76.4
4/21/2007	22:35:35	12.8	284	8.03	6.82	77.1
4/21/2007	22:50:35	12.7	283	8.04	6.77	76.2
4/21/2007	23:05:35	12.6	283	8.04	6.77	76.1
4/21/2007	23:20:35	12.5	282	8.04	6.79	76.1
4/21/2007	23:35:35	12.4	282	8.04	6.81	76.2
4/21/2007	23:50:35	12.3	282	8.05	6.79	75.7
4/22/2007	0:05:35	12.2	282	8.05	6.84	76.1
4/22/2007	0:20:35	12.1	282	8.05	6.78	75.3
4/22/2007	0:35:35	12.0	282	8.04	6.84	75.8
4/22/2007	0:50:35	11.9	283	8.03	6.85	75.7
4/22/2007	1:05:35	11.8	283	8.00	6.87	75.8
4/22/2007	1:20:35	11.7	282	7.99	6.84	75.3
4/22/2007	1:35:35	11.6	282	8.09	6.85	75.2
4/22/2007	1:50:35	11.5	282	8.01	6.90	75.6
4/22/2007	2:05:35	11.4	282	8.02	6.89	75.4
4/22/2007	2:20:35	11.3	282	8.03	6.89	75.3
4/22/2007	2:35:35	11.3	282	8.04	6.87	74.9
4/22/2007	2:50:35	11.2	282	8.05	6.97	75.8
4/22/2007	3:05:35	11.1	282	8.06	7.00	76.0
4/22/2007	3:20:35	11.0	282	8.07	6.99	75.7
4/22/2007	3:35:35	10.9	283	8.07	6.96	75.2
4/22/2007	3:50:35	10.8	283	8.07	6.99	75.4
4/22/2007	4:05:35	10.7	284	8.07	7.00	75.4
4/22/2007	4:20:35	10.6	284	8.06	7.05	75.7
4/22/2007	4:35:35	10.5	283	8.07	7.07	75.7
4/22/2007	4:50:35	10.4	283	8.07	7.07	75.6
4/22/2007	5:05:35	10.3	283	8.07	7.05	75.1
4/22/2007	5:20:35	10.2	283	8.07	7.14	75.9
4/22/2007	5:35:35	10.1	282	8.07	7.13	75.6
4/22/2007	5:50:35	10.0	282	8.07	7.15	75.7
4/22/2007	6:05:35	9.9	282	8.07	7.16	75.7
4/22/2007	6:20:35	9.8	281	8.07	7.19	75.8
4/22/2007	6:35:35	9.8	281	8.07	7.23	76.0
4/22/2007	6:50:35	9.7	280	8.08	7.23	76.0
4/22/2007	7:05:35	9.6	279	8.07	7.28	76.3
4/22/2007	7:20:35	9.6	278	8.08	7.30	76.4
4/22/2007	7:35:35	9.5	278	8.08	7.31	76.4

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	7:50:35	9.5	277	8.08	7.33	76.6
4/22/2007	8:05:35	9.5	276	8.09	7.32	76.6
4/22/2007	8:20:35	9.6	276	8.09	7.27	76.1
4/22/2007	8:35:35	9.6	275	8.09	7.37	77.3
4/22/2007	8:50:35	9.7	275	8.09	7.37	77.5
4/22/2007	9:05:35	9.8	274	8.10	7.42	78.1
4/22/2007	9:20:35	9.9	274	8.10	7.38	78.0
4/22/2007	9:35:35	10.1	274	8.10	7.39	78.5
4/22/2007	9:50:35	10.3	274	8.10	7.39	78.8
4/22/2007	10:05:35	10.5	273	8.11	7.34	78.6
4/22/2007	10:20:35	10.7	273	8.11	7.38	79.4
4/22/2007	10:35:35	11.0	273	8.11	7.35	79.5
4/22/2007	10:50:35	11.2	273	8.11	7.38	80.3
4/22/2007	11:05:35	11.5	273	8.12	7.30	79.9
4/22/2007	11:20:35	11.7	273	8.12	7.33	80.7
4/22/2007	11:35:35	12.0	273	8.10	7.25	80.4
4/22/2007	11:50:35	12.3	273	8.07	7.23	80.6
4/22/2007	12:05:35	12.6	273	8.10	7.20	80.7
4/22/2007	12:20:35	12.9	273	8.12	7.21	81.5
4/22/2007	12:35:35	13.2	274	8.12	7.14	81.3
4/22/2007	12:50:35	13.5	275	8.11	7.14	81.7
4/22/2007	13:05:35	13.8	275	8.11	7.13	82.2
4/22/2007	13:20:35	14.1	275	8.11	7.06	82.0
4/22/2007	13:35:35	14.4	276	8.11	7.01	81.8
4/22/2007	13:50:35	14.5	277	8.11	6.98	81.9
4/22/2007	14:05:35	14.8	277	8.10	6.93	81.7
4/22/2007	14:20:35	15.1	279	8.10	6.88	81.6
4/22/2007	14:35:35	15.4	280	8.09	6.85	81.9
4/22/2007	14:50:35	15.7	282	8.09	6.74	80.9
4/22/2007	15:05:35	15.9	283	8.08	6.74	81.3
4/22/2007	15:20:35	16.0	285	8.08	6.67	80.7
4/22/2007	15:35:35	16.0	286	8.07	6.66	80.6
4/22/2007	15:50:35	16.2	287	8.07	6.62	80.4
4/22/2007	16:05:35	16.3	288	8.06	6.50	79.1
4/22/2007	16:20:35	16.4	289	8.06	6.53	79.7
4/22/2007	16:35:35	16.5	289	8.06	6.51	79.6
4/22/2007	16:50:35	16.5	289	8.05	6.50	79.5
4/22/2007	17:05:35	16.6	290	8.05	6.46	79.2
4/22/2007	17:20:35	16.6	291	8.04	6.41	78.5
4/22/2007	17:35:35	16.6	292	8.04	6.29	77.0
4/22/2007	17:50:35	16.6	293	8.04	6.34	77.6
4/22/2007	18:05:35	16.5	294	8.03	6.24	76.3
4/22/2007	18:20:35	16.4	294	8.03	6.32	77.1
4/22/2007	18:35:35	16.3	295	8.02	6.30	76.8
4/22/2007	18:50:35	16.2	295	8.02	6.27	76.2
4/22/2007	19:05:35	16.1	295	8.02	6.21	75.3

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/22/2007	19:20:35	16.0	295	8.02	6.18	74.7
4/22/2007	19:35:35	15.8	295	8.01	6.26	75.5
4/22/2007	19:50:35	15.7	296	8.01	6.23	74.9
4/22/2007	20:05:35	15.6	296	8.01	6.21	74.5
4/22/2007	20:20:35	15.5	296	8.01	6.20	74.2
4/22/2007	20:35:35	15.4	296	8.00	6.21	74.2
4/22/2007	20:50:35	15.3	296	8.01	6.19	73.5
4/22/2007	21:05:35	15.2	296	8.00	6.26	74.3
4/22/2007	21:20:35	15.1	295	8.00	6.21	73.5
4/22/2007	21:35:35	15.0	295	8.00	6.14	72.7
4/22/2007	21:50:35	15.0	294	8.00	6.23	73.8
4/22/2007	22:05:35	14.9	294	8.01	6.24	73.7
4/22/2007	22:20:35	14.8	293	8.01	6.27	73.9
4/22/2007	22:35:35	14.7	293	8.01	6.26	73.7
4/22/2007	22:50:35	14.7	293	8.00	6.31	74.1
4/22/2007	23:05:35	14.6	293	8.00	6.24	73.3
4/22/2007	23:20:35	14.5	293	8.00	6.29	73.7
4/22/2007	23:35:35	14.5	293	8.00	6.24	73.0
4/22/2007	23:50:35	14.4	292	8.00	6.28	73.4
4/23/2007	0:05:35	14.4	292	8.00	6.25	73.1
4/23/2007	0:20:35	14.4	292	8.00	6.25	73.1
4/23/2007	0:35:35	14.4	292	8.00	6.27	73.2
4/23/2007	0:50:35	14.3	292	8.00	6.29	73.4
4/23/2007	1:05:35	14.3	293	8.00	6.26	73.0
4/23/2007	1:20:35	14.3	293	7.99	6.25	72.9
4/23/2007	1:35:35	14.2	293	7.99	6.20	72.2
4/23/2007	1:50:35	14.2	292	7.99	6.26	72.9
4/23/2007	2:05:35	14.1	291	7.99	6.28	73.0
4/23/2007	2:20:35	14.1	291	7.99	6.30	73.1
4/23/2007	2:35:35	14.0	291	7.99	6.33	73.3
4/23/2007	2:50:35	13.9	291	7.99	6.33	73.1
4/23/2007	3:05:35	13.8	291	8.00	6.36	73.3
4/23/2007	3:20:35	13.7	291	8.00	6.33	72.7
4/23/2007	3:35:35	13.6	292	8.00	6.39	73.5
4/23/2007	3:50:35	13.5	292	8.00	6.37	73.0
4/23/2007	4:05:35	13.4	293	7.99	6.40	73.3
4/23/2007	4:20:35	13.3	293	7.99	6.45	73.6
4/23/2007	4:35:35	13.2	293	7.99	6.43	73.2
4/23/2007	4:50:35	13.1	293	7.99	6.48	73.4
4/23/2007	5:05:35	13.0	293	8.00	6.49	73.5
4/23/2007	5:20:35	12.9	294	8.00	6.52	73.6
4/23/2007	5:35:35	12.8	293	8.00	6.55	73.9
4/23/2007	5:50:35	12.6	293	8.01	6.59	74.1
4/23/2007	6:05:35	12.5	293	8.01	6.58	73.8
4/23/2007	6:20:35	12.4	292	8.01	6.59	73.7
4/23/2007	6:35:35	12.3	292	8.02	6.64	74.1

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	6:50:35	12.2	291	8.02	6.63	73.8
4/23/2007	7:05:35	12.0	291	8.02	6.70	74.3
4/23/2007	7:20:35	12.0	290	8.04	6.69	74.1
4/23/2007	7:35:35	11.9	290	8.06	6.64	73.5
4/23/2007	7:50:35	11.9	290	8.07	6.69	74.0
4/23/2007	8:05:35	11.9	289	8.00	6.74	74.6
4/23/2007	8:20:35	12.0	290	8.03	6.80	75.4
4/23/2007	8:35:35	12.1	289	8.05	6.78	75.3
4/23/2007	8:50:35	12.2	289	8.07	6.83	76.0
4/23/2007	9:05:35	12.3	289	8.06	6.84	76.3
4/23/2007	9:20:35	12.4	289	8.05	6.84	76.5
4/23/2007	9:35:35	12.6	289	8.06	6.84	76.8
4/23/2007	9:50:35	12.7	289	8.07	6.78	76.3
4/23/2007	10:05:35	12.7	287	8.07	6.79	76.5
4/23/2007	10:20:35	12.7	287	8.07	6.81	76.8
4/23/2007	10:35:35	12.9	287	8.08	6.83	77.2
4/23/2007	10:50:35	13.2	287	8.08	6.75	76.8
4/23/2007	11:05:35	13.3	286	8.08	6.84	78.1
4/23/2007	11:20:35	13.4	286	8.08	6.75	77.2
4/23/2007	11:35:35	13.5	286	8.09	6.78	77.6
4/23/2007	11:50:35	13.8	286	8.09	6.80	78.4
4/23/2007	12:05:35	14.1	287	8.09	6.73	78.2
4/23/2007	12:20:35	14.5	288	8.09	6.69	78.4
4/23/2007	12:35:35	14.8	289	8.09	6.65	78.4
4/23/2007	12:50:35	15.1	289	8.08	6.65	79.0
4/23/2007	13:05:35	15.5	291	8.08	6.64	79.5
4/23/2007	13:20:35	15.8	292	8.07	6.57	79.2
4/23/2007	13:35:35	16.0	293	8.07	6.50	78.7
4/23/2007	13:50:35	16.1	295	8.07	6.43	78.0
4/23/2007	14:05:35	16.3	295	8.06	6.54	79.6
4/23/2007	14:20:35	16.4	296	8.07	6.45	78.7
4/23/2007	14:35:35	16.6	298	8.07	6.44	78.9
4/23/2007	14:50:35	16.8	298	8.06	6.45	79.4
4/23/2007	15:05:35	16.9	300	8.06	6.35	78.3
4/23/2007	15:20:35	17.0	300	8.07	6.28	77.5
4/23/2007	15:35:35	16.9	301	8.06	6.31	77.8
4/23/2007	15:50:35	16.9	302	8.05	6.24	76.9
4/23/2007	16:05:35	17.0	302	8.06	6.20	76.5
4/23/2007	16:20:35	17.0	302	8.05	6.15	75.9
4/23/2007	16:35:35	16.9	302	8.05	6.18	76.1
4/23/2007	16:50:35	16.8	303	8.05	6.13	75.4
4/23/2007	17:05:35	16.9	303	8.05	6.13	75.5
4/23/2007	17:20:35	16.8	304	8.04	6.12	75.3
4/23/2007	17:35:35	16.7	305	8.04	6.09	74.8
4/23/2007	17:50:35	16.7	304	8.04	6.12	75.2
4/23/2007	18:05:35	16.6	304	8.04	6.10	74.7

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/23/2007	18:20:35	16.4	304	8.04	6.11	74.6
4/23/2007	18:35:35	16.3	304	8.03	6.05	73.7
4/23/2007	18:50:35	16.1	303	8.03	6.08	73.8
4/23/2007	19:05:35	16.0	303	8.03	6.10	73.7
4/23/2007	19:20:35	15.8	303	8.02	6.14	74.0
4/23/2007	19:35:35	15.6	302	8.02	6.21	74.5
4/23/2007	19:50:35	15.4	302	8.02	6.21	74.3
4/23/2007	20:05:35	15.3	301	8.02	6.17	73.5
4/23/2007	20:20:35	15.1	300	8.02	6.18	73.3
4/23/2007	20:35:35	14.9	299	8.02	6.17	72.9
4/23/2007	20:50:35	14.8	299	8.02	6.17	72.8
4/23/2007	21:05:35	14.7	299	8.02	6.20	72.9
4/23/2007	21:20:35	14.5	298	8.02	6.24	73.2
4/23/2007	21:35:35	14.5	298	8.01	6.23	72.9
4/23/2007	21:50:35	14.4	297	8.01	6.25	73.1
4/23/2007	22:05:35	14.3	298	8.01	6.25	73.0
4/23/2007	22:20:35	14.3	298	8.01	6.24	72.8
4/23/2007	22:35:35	14.2	297	8.00	6.24	72.7
4/23/2007	22:50:35	14.1	296	8.01	6.27	72.8
4/23/2007	23:05:35	14.0	295	8.01	6.26	72.5
4/23/2007	23:20:35	13.9	295	8.01	6.33	73.2
4/23/2007	23:35:35	13.9	296	8.00	6.30	72.8
4/23/2007	23:50:35	13.9	295	8.00	6.30	72.7
4/24/2007	0:05:35	13.9	294	8.01	6.25	72.2
4/24/2007	0:20:35	13.9	293	8.02	6.31	72.9
4/24/2007	0:35:35	13.8	293	8.02	6.28	72.5
4/24/2007	0:50:35	13.8	293	8.02	6.28	72.4
4/24/2007	1:05:35	13.7	293	8.01	6.28	72.4
4/24/2007	1:20:35	13.6	293	8.02	6.27	72.0
4/24/2007	1:35:35	13.5	294	8.01	6.28	72.0
4/24/2007	1:50:35	13.4	294	8.01	6.35	72.7
4/24/2007	2:05:35	13.3	295	8.01	6.36	72.7
4/24/2007	2:20:35	13.3	296	8.01	6.30	71.9
4/24/2007	2:35:35	13.1	296	8.01	6.34	72.1
4/24/2007	2:50:35	13.0	296	8.01	6.40	72.6
4/24/2007	3:05:35	12.9	297	8.01	6.39	72.3
4/24/2007	3:20:35	12.8	298	8.01	6.45	72.8
4/24/2007	3:35:35	12.7	298	8.01	6.43	72.4
4/24/2007	3:50:35	12.6	299	8.01	6.47	72.7
4/24/2007	4:05:35	12.5	299	8.01	6.48	72.6
4/24/2007	4:20:35	12.4	299	8.01	6.52	72.9
4/24/2007	4:35:35	12.3	299	8.01	6.47	72.2
4/24/2007	4:50:35	12.2	299	8.01	6.55	72.8
4/24/2007	5:05:35	12.1	299	8.02	6.54	72.6
4/24/2007	5:20:35	11.9	299	8.01	6.57	72.7
4/24/2007	5:35:35	11.8	300	8.05	6.52	72.0

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	5:50:35	11.7	299	8.06	6.58	72.4
4/24/2007	6:05:35	11.6	298	8.06	6.61	72.5
4/24/2007	6:20:35	11.4	299	7.97	6.63	72.5
4/24/2007	6:35:35	11.3	299	8.01	6.66	72.7
4/24/2007	6:50:35	11.2	299	8.05	6.68	72.7
4/24/2007	7:05:35	11.1	299	8.03	6.74	73.2
4/24/2007	7:20:35	11.1	298	8.05	6.72	72.9
4/24/2007	7:35:35	11.0	298	8.05	6.74	73.0
4/24/2007	7:50:35	10.9	297	8.06	6.72	72.6
4/24/2007	8:05:35	10.9	297	8.06	6.77	73.1
4/24/2007	8:20:35	10.9	296	8.06	6.79	73.3
4/24/2007	8:35:35	10.9	295	8.07	6.78	73.2
4/24/2007	8:50:35	10.9	295	8.07	6.79	73.3
4/24/2007	9:05:35	10.9	295	8.08	6.78	73.3
4/24/2007	9:20:35	11.0	294	8.07	6.79	73.5
4/24/2007	9:35:35	11.0	293	8.08	6.87	74.4
4/24/2007	9:50:35	11.2	293	8.08	6.86	74.6
4/24/2007	10:05:35	11.3	293	8.08	6.82	74.5
4/24/2007	10:20:35	11.4	293	8.08	6.83	74.7
4/24/2007	10:35:35	11.5	292	8.10	6.84	75.0
4/24/2007	10:50:35	11.7	292	8.11	6.88	75.8
4/24/2007	11:05:35	12.0	293	8.03	6.85	76.0
4/24/2007	11:20:35	12.4	293	8.06	6.81	76.3
4/24/2007	11:35:35	12.5	293	8.10	6.73	75.4
4/24/2007	11:50:35	12.7	294	8.12	6.71	75.5
4/24/2007	12:05:35	12.7	293	8.12	6.67	75.1
4/24/2007	12:20:35	12.7	294	8.11	6.78	76.4
4/24/2007	12:35:35	12.7	294	8.10	6.73	75.7
4/24/2007	12:50:35	12.7	295	8.10	6.71	75.5
4/24/2007	13:05:35	12.7	295	8.09	6.70	75.5
4/24/2007	13:20:35	12.7	297	8.09	6.65	74.9
4/24/2007	13:35:35	12.8	298	8.09	6.64	74.9
4/24/2007	13:50:35	12.8	299	8.08	6.62	74.6
4/24/2007	14:05:35	12.9	301	8.07	6.57	74.3
4/24/2007	14:20:35	13.1	302	8.07	6.62	75.1
4/24/2007	14:35:35	13.2	302	8.06	6.63	75.3
4/24/2007	14:50:35	13.3	302	8.06	6.58	75.2
4/24/2007	15:05:35	13.4	304	8.05	6.52	74.6
4/24/2007	15:20:35	13.4	305	8.05	6.54	74.8
4/24/2007	15:35:35	13.5	305	8.04	6.49	74.3
4/24/2007	15:50:35	13.5	306	8.03	6.49	74.3
4/24/2007	16:05:35	13.5	307	8.03	6.50	74.4
4/24/2007	16:20:35	13.4	308	8.03	6.47	74.0
4/24/2007	16:35:35	13.4	309	8.03	6.38	73.1
4/24/2007	16:50:35	13.5	310	8.02	6.49	74.4
4/24/2007	17:05:35	13.6	311	8.02	6.42	73.7

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/24/2007	17:20:35	13.6	310	8.02	6.43	74.0
4/24/2007	17:35:35	13.7	311	8.02	6.42	73.8
4/24/2007	17:50:35	13.6	311	8.01	6.44	74.0
4/24/2007	18:05:35	13.7	311	8.01	6.36	73.2
4/24/2007	18:20:35	13.6	311	8.01	6.37	73.2
4/24/2007	18:35:35	13.6	311	8.01	6.30	72.3
4/24/2007	18:50:35	13.5	311	8.00	6.37	72.9
4/24/2007	19:05:35	13.4	309	8.00	6.40	73.0
4/24/2007	19:20:35	13.3	309	8.00	6.38	72.7
4/24/2007	19:35:35	13.2	308	8.00	6.37	72.4
4/24/2007	19:50:35	13.1	307	8.00	6.33	71.9
4/24/2007	20:05:35	13.0	306	8.00	6.35	71.9
4/24/2007	20:20:35	12.9	306	8.00	6.40	72.3
4/24/2007	20:35:35	12.9	305	7.99	6.31	71.3
4/24/2007	20:50:35	12.8	304	7.99	6.42	72.5
4/24/2007	21:05:35	12.8	303	7.99	6.30	71.1
4/24/2007	21:20:35	12.7	302	7.99	6.38	71.8
4/24/2007	21:35:35	12.6	303	7.99	6.44	72.4
4/24/2007	21:50:35	12.6	302	7.99	6.41	72.0
4/24/2007	22:05:35	12.6	302	7.99	6.41	71.9
4/24/2007	22:20:35	12.5	302	7.99	6.42	71.8
4/24/2007	22:35:35	12.5	301	7.99	6.34	71.0
4/24/2007	22:50:35	12.4	301	7.99	6.41	71.7
4/24/2007	23:05:35	12.3	300	7.99	6.45	72.0
4/24/2007	23:20:35	12.3	300	7.99	6.42	71.6
4/24/2007	23:35:35	12.2	300	7.99	6.43	71.6
4/24/2007	23:50:35	12.1	300	7.98	6.39	71.0
4/25/2007	0:05:35	12.1	301	7.99	6.44	71.5
4/25/2007	0:20:35	12.0	301	7.99	6.47	71.8
4/25/2007	0:35:35	12.0	302	7.97	6.37	70.5
4/25/2007	0:50:35	11.9	302	8.01	6.42	71.0
4/25/2007	1:05:35	11.8	302	8.01	6.51	71.8
4/25/2007	1:20:35	11.8	302	7.96	6.57	72.4
4/25/2007	1:35:35	11.7	302	7.99	6.42	70.6
4/25/2007	1:50:35	11.6	303	8.00	6.39	70.2
4/25/2007	2:05:35	11.5	303	8.00	6.54	71.7
4/25/2007	2:20:35	11.5	303	8.01	6.42	70.3
4/25/2007	2:35:35	11.4	303	7.94	6.37	69.6
4/25/2007	2:50:35	11.3	302	8.00	6.42	70.1
4/25/2007	3:05:35	11.3	303	7.99	6.46	70.4
4/25/2007	3:20:35	11.2	303	7.98	6.47	70.4
4/25/2007	3:35:35	11.1	303	7.98	6.55	71.1
4/25/2007	3:50:35	11.0	305	7.98	6.56	71.2
4/25/2007	4:05:35	11.0	305	7.97	6.48	70.1
4/25/2007	4:20:35	10.9	304	7.97	6.58	71.0
4/25/2007	4:35:35	10.8	305	7.97	6.56	70.7

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	4:50:35	10.7	306	7.97	6.64	71.5
4/25/2007	5:05:35	10.6	305	7.98	6.54	70.2
4/25/2007	5:20:35	10.5	304	7.98	6.74	72.2
4/25/2007	5:35:35	10.4	304	7.98	6.74	72.1
4/25/2007	5:50:35	10.3	303	7.99	6.68	71.2
4/25/2007	6:05:35	10.2	303	7.99	6.70	71.3
4/25/2007	6:20:35	10.1	303	8.00	6.80	72.2
4/25/2007	6:35:35	10.0	302	7.99	6.81	72.2
4/25/2007	6:50:35	9.9	301	8.00	6.76	71.5
4/25/2007	7:05:35	9.9	299	8.01	6.75	71.2
4/25/2007	7:20:35	9.8	298	8.01	6.82	71.9
4/25/2007	7:35:35	9.8	297	8.01	6.74	71.0
4/25/2007	7:50:35	9.9	296	8.02	6.67	70.3
4/25/2007	8:05:35	9.9	295	8.02	6.74	71.2
4/25/2007	8:20:35	10.0	294	8.03	6.83	72.3
4/25/2007	8:35:35	10.2	293	8.03	6.80	72.2
4/25/2007	8:50:35	10.3	292	8.04	6.89	73.4
4/25/2007	9:05:35	10.5	291	8.04	6.87	73.5
4/25/2007	9:20:35	10.7	291	8.04	6.74	72.5
4/25/2007	9:35:35	10.9	291	8.05	6.59	71.2
4/25/2007	9:50:35	11.1	291	8.05	6.59	71.6
4/25/2007	10:05:35	11.4	291	8.05	6.64	72.7
4/25/2007	10:20:35	11.7	290	8.06	6.69	73.6
4/25/2007	10:35:35	12.0	289	8.09	6.72	74.4
4/25/2007	10:50:35	12.2	288	8.09	6.58	73.3
4/25/2007	11:05:35	12.5	287	8.05	6.45	72.4
4/25/2007	11:20:35	12.9	287	8.06	6.76	76.4
4/25/2007	11:35:35	13.2	289	8.06	6.52	74.2
4/25/2007	11:50:35	13.5	289	8.07	6.39	73.2
4/25/2007	12:05:35	13.9	291	8.06	6.65	76.8
4/25/2007	12:20:35	14.2	292	8.06	6.47	75.3
4/25/2007	12:35:35	14.5	293	8.06	6.30	73.9
4/25/2007	12:50:35	14.8	296	8.06	6.25	73.7
4/25/2007	13:05:35	15.1	297	8.05	6.27	74.4
4/25/2007	13:20:35	15.5	298	8.05	6.33	75.8
4/25/2007	13:35:35	15.8	301	8.05	6.16	74.3
4/25/2007	13:50:35	16.2	302	8.04	6.21	75.4
4/25/2007	14:05:35	16.5	304	8.03	6.29	76.8
4/25/2007	14:20:35	16.8	305	8.03	6.33	77.8
4/25/2007	14:35:35	17.0	305	8.03	6.06	74.9
4/25/2007	14:50:35	17.2	306	8.02	5.89	73.1
4/25/2007	15:05:35	17.5	308	8.01	5.79	72.3
4/25/2007	15:20:35	17.7	308	8.01	5.76	72.2
4/25/2007	15:35:35	17.9	309	8.00	5.93	74.7
4/25/2007	15:50:35	18.1	310	8.00	5.81	73.3
4/25/2007	16:05:35	18.2	310	8.00	5.84	74.0

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/25/2007	16:20:35	18.4	310	7.99	5.70	72.5
4/25/2007	16:35:35	18.5	310	7.99	5.72	72.9
4/25/2007	16:50:35	18.6	310	7.98	5.71	73.0
4/25/2007	17:05:35	18.6	310	7.98	5.68	72.5
4/25/2007	17:20:35	18.6	310	7.98	5.71	73.1
4/25/2007	17:35:35	18.6	311	7.98	5.65	72.3
4/25/2007	17:50:35	18.5	312	7.97	5.61	71.5
4/25/2007	18:05:35	18.5	312	7.97	5.62	71.6
4/25/2007	18:20:35	18.3	311	7.96	5.65	71.8
4/25/2007	18:35:35	18.2	310	7.95	5.65	71.5
4/25/2007	18:50:35	18.1	309	7.96	5.53	69.9
4/25/2007	19:05:35	18.0	307	7.95	5.57	70.3
4/25/2007	19:20:35	17.9	305	7.96	5.45	68.6
4/25/2007	19:35:35	17.8	304	7.95	5.60	70.3
4/25/2007	19:50:35	17.7	303	7.96	5.53	69.3
4/25/2007	20:05:35	17.6	301	7.95	5.62	70.2
4/25/2007	20:20:35	17.5	300	7.95	5.47	68.3
4/25/2007	20:35:35	17.4	303	7.95	5.44	67.7
4/25/2007	20:50:35	17.3	307	7.96	5.56	69.0
4/25/2007	21:05:35	17.2	308	7.95	5.47	67.8
4/25/2007	21:20:35	17.1	306	7.96	5.45	67.4
4/25/2007	21:35:35	17.0	305	7.95	5.57	68.8
4/25/2007	21:50:35	16.9	304	7.95	5.54	68.3
4/25/2007	22:05:35	16.7	303	7.95	5.52	67.8
4/25/2007	22:20:35	16.6	304	7.95	5.56	68.2
4/25/2007	22:35:35	16.5	305	7.95	5.68	69.5
4/25/2007	22:50:35	16.4	306	7.95	5.61	68.4
4/25/2007	23:05:35	16.3	305	7.94	5.64	68.6
4/25/2007	23:20:35	16.2	305	7.95	5.59	67.8
4/25/2007	23:35:35	16.1	305	7.95	5.64	68.3
4/25/2007	23:50:35	16.0	305	7.95	5.81	70.2
4/26/2007	0:05:35	15.9	305	7.95	5.82	70.2
4/26/2007	0:20:35	15.8	304	7.95	5.76	69.4
4/26/2007	0:35:35	15.7	305	7.95	5.67	68.2
4/26/2007	0:50:35	15.6	306	7.95	5.87	70.5
4/26/2007	1:05:35	15.6	307	7.95	5.88	70.5
4/26/2007	1:20:35	15.5	307	7.95	5.82	69.7
4/26/2007	1:35:35	15.4	308	7.95	5.69	68.0
4/26/2007	1:50:35	15.3	308	7.95	5.66	67.5
4/26/2007	2:05:35	15.2	307	7.95	5.99	71.3
4/26/2007	2:20:35	15.2	306	7.95	5.75	68.3
4/26/2007	2:35:35	15.1	306	7.95	5.71	67.7
4/26/2007	2:50:35	15.0	306	7.95	6.03	71.3
4/26/2007	3:05:35	14.9	307	7.95	5.93	70.1
4/26/2007	3:20:35	14.8	309	7.95	5.95	70.2
4/26/2007	3:35:35	14.6	311	7.96	5.97	70.1

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	3:50:35	14.5	311	7.96	5.95	69.8
4/26/2007	4:05:35	14.4	312	7.95	6.12	71.5
4/26/2007	4:20:35	14.3	312	7.96	5.94	69.3
4/26/2007	4:35:35	14.2	313	7.96	5.88	68.5
4/26/2007	4:50:35	14.1	312	7.96	6.12	71.1
4/26/2007	5:05:35	14.1	312	7.96	6.17	71.6
4/26/2007	5:20:35	13.9	312	7.96	6.04	69.9
4/26/2007	5:35:35	13.8	311	7.96	6.10	70.5
4/26/2007	5:50:35	13.7	310	7.97	5.97	68.8
4/26/2007	6:05:35	13.6	309	7.98	6.18	70.8
4/26/2007	6:20:35	13.5	310	7.98	6.23	71.3
4/26/2007	6:35:35	13.4	309	7.98	6.20	70.9
4/26/2007	6:50:35	13.3	309	7.99	6.12	69.8
4/26/2007	7:05:35	13.2	308	7.99	6.06	68.9
4/26/2007	7:20:35	13.2	309	8.00	6.29	71.5
4/26/2007	7:35:35	13.1	308	8.00	6.32	71.8
4/26/2007	7:50:35	13.1	307	8.01	6.31	71.7
4/26/2007	8:05:35	13.2	307	8.01	6.34	72.2
4/26/2007	8:20:35	13.2	306	8.02	6.16	70.2
4/26/2007	8:35:35	13.3	306	8.02	6.37	72.4
4/26/2007	8:50:35	13.4	306	8.03	6.42	73.5
4/26/2007	9:05:35	13.6	306	8.03	6.43	73.9
4/26/2007	9:20:35	13.8	305	8.04	6.32	72.8
4/26/2007	9:35:35	14.0	305	8.03	6.34	73.4
4/26/2007	9:50:35	14.2	305	8.04	6.42	74.7
4/26/2007	10:05:35	14.4	304	8.04	6.29	73.6
4/26/2007	10:20:35	14.7	305	8.05	6.41	75.4
4/26/2007	10:35:35	14.9	305	8.05	6.46	76.3
4/26/2007	10:50:35	15.2	304	8.05	6.49	77.1
4/26/2007	11:05:35	15.5	304	8.05	6.41	76.8
4/26/2007	11:20:35	15.8	304	8.05	6.37	76.7
4/26/2007	11:35:35	16.1	305	8.05	6.26	75.9
4/26/2007	11:50:35	16.4	307	8.05	6.11	74.6
4/26/2007	12:05:35	16.7	308	8.05	6.11	75.1
4/26/2007	12:20:35	17.0	308	8.04	6.29	77.7
4/26/2007	12:35:35	17.3	308	8.04	6.18	76.9
4/26/2007	12:50:35	17.6	308	8.04	6.19	77.5
4/26/2007	13:05:35	17.9	308	8.04	5.92	74.5
4/26/2007	13:20:35	18.2	307	8.04	5.93	75.2
4/26/2007	13:35:35	18.5	307	8.04	5.81	74.0
4/26/2007	13:50:35	18.9	309	8.03	5.80	74.5
4/26/2007	14:05:35	19.2	311	8.02	5.92	76.5
4/26/2007	14:20:35	19.2	313	8.01	5.74	74.1
4/26/2007	14:35:35	19.5	315	8.00	5.87	76.3
4/26/2007	14:50:35	19.7	315	7.99	5.74	74.9
4/26/2007	15:05:35	20.0	315	7.99	5.69	74.7

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/26/2007	15:20:35	20.2	315	7.99	5.50	72.5
4/26/2007	15:35:35	20.3	314	7.99	5.50	72.5
4/26/2007	15:50:35	20.5	315	7.98	5.77	76.6
4/26/2007	16:05:35	20.7	316	7.97	5.73	76.2
4/26/2007	16:20:35	20.7	317	7.97	5.66	75.4
4/26/2007	16:35:35	20.9	317	7.97	5.29	70.7
4/26/2007	16:50:35	21.0	315	7.97	5.28	70.7
4/26/2007	17:05:35	21.0	316	7.96	5.28	70.8
4/26/2007	17:20:35	21.0	317	7.96	5.45	73.1
4/26/2007	17:35:35	20.9	314	7.96	5.48	73.5
4/26/2007	17:50:35	20.8	317	7.96	5.35	71.0
4/26/2007	18:05:35	20.8	318	7.95	5.39	71.9
4/26/2007	18:20:35	20.6	319	7.95	5.39	71.5
4/26/2007	18:35:35	20.5	319	7.95	5.48	72.6
4/26/2007	18:50:35	20.5	318	7.95	5.30	70.3
4/26/2007	19:05:35	20.5	318	7.95	5.23	69.3
4/26/2007	19:20:35	20.4	318	7.95	5.27	69.9
4/26/2007	19:35:35	20.3	318	7.95	5.12	67.7
4/26/2007	19:50:35	20.2	317	7.94	5.02	66.2
4/26/2007	20:05:35	20.1	317	7.93	5.12	67.2
4/26/2007	20:20:35	19.9	318	7.93	5.06	66.3
4/26/2007	20:35:35	19.8	319	7.92	5.15	67.4
4/26/2007	20:50:35	19.6	319	7.92	4.99	65.1
4/26/2007	21:05:35	19.5	318	7.91	5.05	65.7
4/26/2007	21:20:35	19.4	318	7.90	4.92	63.9
4/26/2007	21:35:35	19.3	318	7.90	4.92	63.7
4/26/2007	21:50:35	19.2	318	7.89	4.93	63.7
4/26/2007	22:05:35	19.1	316	7.90	5.03	64.9
4/26/2007	22:20:35	19.0	314	7.90	5.08	65.4
4/26/2007	22:35:35	18.9	312	7.89	5.12	65.8
4/26/2007	22:50:35	18.7	311	7.90	5.07	65.0
4/26/2007	23:05:35	18.6	311	7.90	4.92	62.8
4/26/2007	23:20:35	18.5	310	7.90	4.97	63.2
4/26/2007	23:35:35	18.4	309	7.90	5.09	64.8
4/26/2007	23:50:35	18.3	307	7.90	5.22	66.2
4/27/2007	0:05:35	18.2	307	7.91	5.28	66.9
4/27/2007	0:20:35	18.1	308	7.91	5.23	66.1
4/27/2007	0:35:35	17.9	309	7.91	5.28	66.5
4/27/2007	0:50:35	17.8	309	7.91	5.38	67.7
4/27/2007	1:05:35	17.8	309	7.91	5.31	66.6
4/27/2007	1:20:35	17.7	309	7.91	5.18	64.9
4/27/2007	1:35:35	17.6	309	7.91	5.26	65.7
4/27/2007	1:50:35	17.5	309	7.91	5.30	66.2
4/27/2007	2:05:35	17.4	308	7.91	5.27	65.6
4/27/2007	2:20:35	17.3	308	7.91	5.26	65.4
4/27/2007	2:35:35	17.2	308	7.91	5.33	66.1

Table 5.32. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/27/2007	2:50:35	17.0	308	7.92	5.11	63.2
4/27/2007	3:05:35	17.0	308	7.92	5.25	64.8
4/27/2007	3:20:35	16.9	310	7.92	5.30	65.3
4/27/2007	3:35:35	16.7	310	7.92	5.25	64.5
4/27/2007	3:50:35	16.6	310	7.92	5.15	63.2
4/27/2007	4:05:35	16.5	310	7.92	5.08	62.1
4/27/2007	4:20:35	16.4	310	7.92	5.25	64.1
4/27/2007	4:35:35	16.3	311	7.92	5.14	62.5
4/27/2007	4:50:35	16.1	311	7.92	5.22	63.3
4/27/2007	5:05:35	16.0	311	7.92	5.42	65.6
4/27/2007	5:20:35	15.9	311	7.93	5.45	65.8
4/27/2007	5:35:35	15.8	311	7.93	5.50	66.2
4/27/2007	5:50:35	15.6	311	7.93	5.63	67.6
4/27/2007	6:05:35	15.5	311	7.93	5.64	67.5
4/27/2007	6:20:35	15.3	310	7.94	5.57	66.5
4/27/2007	6:35:35	15.2	310	7.95	5.60	66.6
4/27/2007	6:50:35	15.1	310	7.95	5.63	66.9
4/27/2007	7:05:35	15.0	310	7.95	5.61	66.5
4/27/2007	7:20:35	15.0	309	7.95	5.68	67.3
4/27/2007	7:35:35	15.0	309	7.96	5.56	65.8
4/27/2007	7:50:35	14.9	308	7.96	5.72	67.7
4/27/2007	8:05:35	14.9	308	7.97	5.52	65.3
4/27/2007	8:20:35	15.0	307	7.97	5.34	63.3
4/27/2007	8:35:35	15.2	307	7.98	5.27	62.6
4/27/2007	8:50:35	15.2	307	7.98	5.36	63.8

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:22:40
Report from file:	...\SN45475 2007-04-13 150000 Site4_4_13_07lun.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45475	
Firmware Version	1.58	
Unit name:	Athena	
Barometric Pressure:		625.264
Test defined on:	4/13/2007	6:13:15
Test scheduled for:	4/13/2007	15:00:00
Test started on:	4/13/2007	15:00:00
Test stopped on:	7/16/2007	15:36:31
Data gathered using linear testing		
Time between data points		900 seconds
Number of data samples:		9027

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/13/2007	15:00:00	11.2	8.81	97.7
4/13/2007	15:15:00	11.2	8.82	97.9
4/13/2007	15:30:00	11.2	8.82	97.9
4/13/2007	15:45:00	11.1	8.79	97.5
4/13/2007	16:00:00	11.1	8.76	97.0
4/13/2007	16:15:00	11.0	8.72	96.4
4/13/2007	16:30:00	11.0	8.70	96.0
4/13/2007	16:45:00	10.9	8.68	95.7
4/13/2007	17:00:00	10.8	8.66	95.3
4/13/2007	17:15:00	10.8	8.65	95.1
4/13/2007	17:30:00	10.7	8.62	94.7
4/13/2007	17:45:00	10.7	8.59	94.3
4/13/2007	18:00:00	10.8	8.55	94.0
4/13/2007	18:15:00	10.8	8.51	93.5
4/13/2007	18:30:00	10.8	8.47	93.1
4/13/2007	18:45:00	10.7	8.44	92.7
4/13/2007	19:00:00	10.8	8.41	92.4
4/13/2007	19:15:00	10.7	8.38	92.0
4/13/2007	19:30:00	10.7	8.36	91.8
4/13/2007	19:45:00	10.7	8.35	91.7
4/13/2007	20:00:00	10.7	8.34	91.5
4/13/2007	20:15:00	10.7	8.33	91.4
4/13/2007	20:30:00	10.7	8.33	91.3
4/13/2007	20:45:00	10.6	8.33	91.3
4/13/2007	21:00:00	10.6	8.33	91.2
4/13/2007	21:15:00	10.6	8.34	91.2
4/13/2007	21:30:00	10.5	8.34	91.1

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2007	21:45:00	10.5	8.34	91.0
4/13/2007	22:00:00	10.4	8.33	90.8
4/13/2007	22:15:00	10.4	8.33	90.8
4/13/2007	22:30:00	10.4	8.33	90.7
4/13/2007	22:45:00	10.3	8.33	90.6
4/13/2007	23:00:00	10.3	8.33	90.4
4/13/2007	23:15:00	10.2	8.32	90.2
4/13/2007	23:30:00	10.1	8.29	89.8
4/13/2007	23:45:00	10.1	8.26	89.3
4/14/2007	0:00:00	10.0	8.21	88.7
4/14/2007	0:15:00	10.0	8.16	88.0
4/14/2007	0:30:00	9.9	8.12	87.4
4/14/2007	0:45:00	9.8	8.09	86.9
4/14/2007	1:00:00	9.7	8.08	86.6
4/14/2007	1:15:00	9.7	8.08	86.5
4/14/2007	1:30:00	9.6	8.08	86.4
4/14/2007	1:45:00	9.5	8.10	86.4
4/14/2007	2:00:00	9.4	8.12	86.5
4/14/2007	2:15:00	9.4	8.16	86.7
4/14/2007	2:30:00	9.3	7.85	83.4
4/14/2007	2:45:00	9.4	7.73	82.2
4/14/2007	3:00:00	9.4	7.35	78.2
4/14/2007	3:15:00	9.4	7.12	75.7
4/14/2007	3:30:00	9.3	6.85	72.8
4/14/2007	3:45:00	9.3	6.92	73.5
4/14/2007	4:00:00	9.3	6.79	72.0
4/14/2007	4:15:00	9.3	6.68	70.9
4/14/2007	4:30:00	9.3	6.56	69.6
4/14/2007	4:45:00	9.2	6.51	69.0
4/14/2007	5:00:00	9.2	6.77	71.8
4/14/2007	5:15:00	9.2	7.14	75.6
4/14/2007	5:30:00	9.2	7.42	78.5
4/14/2007	5:45:00	9.2	7.40	78.3
4/14/2007	6:00:00	9.2	7.16	75.7
4/14/2007	6:15:00	9.2	7.01	74.2
4/14/2007	6:30:00	9.2	7.05	74.6
4/14/2007	6:45:00	9.2	7.12	75.3
4/14/2007	7:00:00	9.2	7.23	76.5
4/14/2007	7:15:00	9.2	7.19	76.0
4/14/2007	7:30:00	9.2	7.10	75.1
4/14/2007	7:45:00	9.2	7.04	74.5
4/14/2007	8:00:00	9.2	6.99	74.0
4/14/2007	8:15:00	9.2	6.91	73.1
4/14/2007	8:30:00	9.2	6.90	73.0
4/14/2007	8:45:00	9.2	6.89	72.9

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2007	9:00:00	9.2	6.84	72.4
4/14/2007	9:15:00	9.2	6.82	72.2
4/14/2007	9:30:00	9.2	6.76	71.5
4/14/2007	9:45:00	9.2	6.56	69.4
4/14/2007	10:00:00	9.2	6.28	66.5
4/14/2007	10:15:00	9.2	5.87	62.2
4/14/2007	10:30:00	9.2	5.33	56.4
4/14/2007	10:45:00	9.2	4.90	51.9
4/14/2007	11:00:00	9.2	4.93	52.2
4/14/2007	11:15:00	9.2	5.47	57.9
4/14/2007	11:30:00	9.2	5.98	63.3
4/14/2007	11:45:00	9.2	6.01	63.7
4/14/2007	12:00:00	9.2	5.93	62.8
4/14/2007	12:15:00	9.3	5.57	59.0
4/14/2007	12:30:00	9.3	4.92	52.2
4/14/2007	12:45:00	9.3	5.47	58.1
4/14/2007	13:00:00	9.4	5.55	59.0
4/14/2007	13:15:00	9.4	4.91	52.3
4/14/2007	13:30:00	9.5	4.54	48.4*
4/14/2007	13:45:00	9.5	4.23	45.1
4/14/2007	14:00:00	9.6	4.29	45.9
4/14/2007	14:15:00	9.6	4.47	47.8
4/14/2007	14:30:00	9.7	4.52	48.4
4/14/2007	14:45:00	9.7	4.45	47.8
4/14/2007	15:00:00	9.8	4.36	46.9
4/14/2007	15:15:00	9.8	4.33	46.6
4/14/2007	15:30:00	9.9	4.32	46.5
4/14/2007	15:45:00	9.9	4.21	45.4
4/14/2007	16:00:00	10.0	4.16	44.9
4/14/2007	16:15:00	10.0	4.03	43.4
4/14/2007	16:30:00	10.0	3.95	42.6
4/14/2007	16:45:00	10.1	3.79	41.0
4/14/2007	17:00:00	10.1	3.73	40.4
4/14/2007	17:15:00	10.1	3.60	39.0
4/14/2007	17:30:00	10.1	3.71	40.2
4/14/2007	17:45:00	10.2	3.63	39.3
4/14/2007	18:00:00	10.2	3.61	39.2
4/14/2007	18:15:00	10.2	3.37	36.5
4/14/2007	18:30:00	10.2	3.26	35.4
4/14/2007	18:45:00	10.3	3.17	34.4
4/14/2007	19:00:00	10.3	3.12	33.9
4/14/2007	19:15:00	10.3	3.79	41.2
4/14/2007	19:30:00	10.3	4.48	48.7
4/14/2007	19:45:00	10.4	4.43	48.2
4/14/2007	20:00:00	10.4	4.36	47.5

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2007	20:15:00	10.4	4.35	47.4
4/14/2007	20:30:00	10.4	3.93	42.8
4/14/2007	20:45:00	10.4	3.86	42.2
4/14/2007	21:00:00	10.5	3.93	42.9
4/14/2007	21:15:00	10.5	3.79	41.4
4/14/2007	21:30:00	10.5	3.63	39.6
4/14/2007	21:45:00	10.5	3.64	39.7
4/14/2007	22:00:00	10.5	3.64	39.7
4/14/2007	22:15:00	10.5	3.61	39.5
4/14/2007	22:30:00	10.6	3.48	38.1
4/14/2007	22:45:00	10.6	2.89	31.6
4/14/2007	23:00:00	10.6	2.92	32.0
4/14/2007	23:15:00	10.6	2.83	31.0
4/14/2007	23:30:00	10.6	2.92	32.0
4/14/2007	23:45:00	10.7	2.90	31.8
4/15/2007	0:00:00	10.7	3.12	34.2
4/15/2007	0:15:00	10.7	3.22	35.3
4/15/2007	0:30:00	10.7	3.12	34.3
4/15/2007	0:45:00	10.7	2.49	27.4
4/15/2007	1:00:00	10.7	2.10	23.1
4/15/2007	1:15:00	10.8	2.27	25.0
4/15/2007	1:30:00	10.8	2.29	25.2
4/15/2007	1:45:00	10.8	2.41	26.5
4/15/2007	2:00:00	10.8	2.53	27.8
4/15/2007	2:15:00	10.8	2.71	29.8
4/15/2007	2:30:00	10.8	2.70	29.8
4/15/2007	2:45:00	10.9	2.48	27.3
4/15/2007	3:00:00	10.9	2.48	27.3
4/15/2007	3:15:00	10.9	2.47	27.2
4/15/2007	3:30:00	10.9	2.22	24.5
4/15/2007	3:45:00	10.9	1.96	21.7
4/15/2007	4:00:00	10.9	1.93	21.2
4/15/2007	4:15:00	10.9	2.03	22.4
4/15/2007	4:30:00	10.9	2.17	23.9
4/15/2007	4:45:00	11.0	2.37	26.1
4/15/2007	5:00:00	11.0	2.41	26.7
4/15/2007	5:15:00	11.0	2.29	25.3
4/15/2007	5:30:00	11.0	1.97	21.8
4/15/2007	5:45:00	11.0	1.91	21.1
4/15/2007	6:00:00	11.0	1.90	21.0
4/15/2007	6:15:00	11.0	1.90	21.0
4/15/2007	6:30:00	11.0	2.01	22.2
4/15/2007	6:45:00	11.1	2.06	22.8
4/15/2007	7:00:00	11.1	2.07	22.9
4/15/2007	7:15:00	11.1	2.04	22.6

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2007	7:30:00	11.1	2.00	22.1
4/15/2007	7:45:00	11.1	1.98	22.0
4/15/2007	8:00:00	11.1	1.46	16.1
4/15/2007	8:15:00	11.1	1.27	14.1
4/15/2007	8:30:00	11.1	1.43	15.8
4/15/2007	8:45:00	11.1	1.51	16.7
4/15/2007	9:00:00	11.1	1.66	18.4
4/15/2007	9:15:00	11.1	1.69	18.7
4/15/2007	9:30:00	11.1	1.69	18.7
4/15/2007	9:45:00	11.1	1.65	18.3
4/15/2007	10:00:00	11.2	1.64	18.2
4/15/2007	10:15:00	11.2	1.54	17.1
4/15/2007	10:30:00	11.2	1.48	16.4
4/15/2007	10:45:00	11.2	1.49	16.5
4/15/2007	11:00:00	11.2	1.48	16.4
4/15/2007	11:15:00	11.2	1.44	16.0
4/15/2007	11:30:00	11.2	1.39	15.4
4/15/2007	11:45:00	11.2	1.37	15.2
4/15/2007	12:00:00	11.2	1.39	15.4
4/15/2007	12:15:00	11.2	1.39	15.4
4/15/2007	12:30:00	11.2	1.38	15.3
4/15/2007	12:45:00	11.2	1.37	15.2
4/15/2007	13:00:00	11.2	1.33	14.7
4/15/2007	13:15:00	11.2	1.28	14.2
4/15/2007	13:30:00	11.2	1.22	13.6
4/15/2007	13:45:00	11.2	1.15	12.8
4/15/2007	14:00:00	11.2	1.02	11.4
4/15/2007	14:15:00	11.2	0.95	10.6
4/15/2007	14:30:00	11.2	0.84	9.3
4/15/2007	14:45:00	11.2	0.79	8.8
4/15/2007	15:00:00	11.2	0.79	8.8
4/15/2007	15:15:00	11.2	0.80	8.9
4/15/2007	15:30:00	11.2	0.84	9.3
4/15/2007	15:45:00	11.2	0.86	9.6
4/15/2007	16:00:00	11.2	0.85	9.4
4/15/2007	16:15:00	11.2	0.83	9.3
4/15/2007	16:30:00	11.2	0.82	9.1
4/15/2007	16:45:00	11.2	0.79	8.7
4/15/2007	17:00:00	11.2	0.75	8.4
4/15/2007	17:15:00	11.2	0.71	7.9
4/15/2007	17:30:00	11.2	0.66	7.3
4/15/2007	17:45:00	11.2	0.63	7.0
4/15/2007	18:00:00	11.2	0.62	6.9
4/15/2007	18:15:00	11.2	0.59	6.5
4/15/2007	18:30:00	11.2	0.54	6.0

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2007	18:45:00	11.2	0.49	5.5
4/15/2007	19:00:00	11.2	0.46	5.1
4/15/2007	19:15:00	11.3	0.41	4.6
4/15/2007	19:30:00	11.3	0.41	4.6
4/15/2007	19:45:00	11.3	0.44	4.9
4/15/2007	20:00:00	11.3	0.45	5.0
4/15/2007	20:15:00	11.3	0.44	4.9
4/15/2007	20:30:00	11.3	0.42	4.7
4/15/2007	20:45:00	11.3	0.41	4.5
4/15/2007	21:00:00	11.3	0.36	4.0
4/15/2007	21:15:00	11.3	0.31	3.4
4/15/2007	21:30:00	11.3	0.24	2.6
4/15/2007	21:45:00	11.3	0.20	2.2
4/15/2007	22:00:00	11.4	0.15	1.7
4/15/2007	22:15:00	11.4	0.10	1.1
4/15/2007	22:30:00	11.4	0.09	1.0
4/15/2007	22:45:00	11.4	0.09	1.0
4/15/2007	23:00:00	11.4	0.09	1.0
4/15/2007	23:15:00	11.4	0.10	1.1
4/15/2007	23:30:00	11.4	0.13	1.4
4/15/2007	23:45:00	11.4	0.12	1.3
4/16/2007	0:00:00	11.5	0.10	1.2
4/16/2007	0:15:00	11.5	0.09	1.0
4/16/2007	0:30:00	11.5	0.08	0.9
4/16/2007	0:45:00	11.5	0.08	0.8
4/16/2007	1:00:00	11.5	0.08	0.8
4/16/2007	1:15:00	11.5	0.07	0.8
4/16/2007	1:30:00	11.5	0.08	0.9
4/16/2007	1:45:00	11.6	0.08	0.9
4/16/2007	2:00:00	11.6	0.09	1.0
4/16/2007	2:15:00	11.6	0.09	1.0
4/16/2007	2:30:00	11.6	0.08	0.8
4/16/2007	2:45:00	11.6	0.07	0.8
4/16/2007	3:00:00	11.6	0.07	0.8
4/16/2007	3:15:00	11.6	0.07	0.8
4/16/2007	3:30:00	11.7	0.07	0.8
4/16/2007	3:45:00	11.7	0.07	0.8
4/16/2007	4:00:00	11.7	0.07	0.8
4/16/2007	4:15:00	11.7	0.07	0.8
4/16/2007	4:30:00	11.7	0.07	0.8
4/16/2007	4:45:00	11.7	0.07	0.8
4/16/2007	5:00:00	11.7	0.07	0.8
4/16/2007	5:15:00	11.8	0.07	0.8
4/16/2007	5:30:00	11.8	0.07	0.8
4/16/2007	5:45:00	11.8	0.07	0.8

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/16/2007	6:00:00	11.8	0.07	0.8
4/16/2007	6:15:00	11.8	0.07	0.8
4/16/2007	6:30:00	11.8	0.07	0.8
4/16/2007	6:45:00	11.8	0.07	0.8
4/16/2007	7:00:00	11.8	0.07	0.8
4/16/2007	7:15:00	11.9	0.07	0.8
4/16/2007	7:30:00	11.9	0.07	0.8
4/16/2007	7:45:00	11.9	0.07	0.8
4/16/2007	8:00:00	11.9	0.07	0.8
4/16/2007	8:15:00	11.9	0.07	0.8
4/16/2007	8:30:00	11.9	0.07	0.8
4/16/2007	8:45:00	11.9	0.07	0.8
4/16/2007	9:00:00	11.9	0.07	0.8
4/16/2007	9:15:00	12.0	0.07	0.8
4/16/2007	9:30:00	12.0	0.07	0.8
4/16/2007	9:45:00	12.0	0.07	0.8
4/16/2007	10:00:00	12.0	0.07	0.8
4/16/2007	10:15:00	12.0	0.07	0.8
4/16/2007	10:30:00	12.0	0.07	0.8
4/16/2007	10:45:00	12.0	0.07	0.8
4/16/2007	11:00:00	12.0	0.07	0.8
4/16/2007	11:15:00	12.0	0.07	0.8
4/16/2007	11:30:00	12.0	0.07	0.8
4/16/2007	11:45:00	12.0	0.07	0.8
4/16/2007	12:00:00	12.0	0.07	0.8
4/16/2007	12:15:00	12.0	0.07	0.8
4/16/2007	12:30:00	12.0	0.07	0.8
4/16/2007	12:45:00	12.0	0.07	0.8
4/16/2007	13:00:00	12.0	0.07	0.8
4/16/2007	13:15:00	12.1	0.07	0.8
4/16/2007	13:30:00	12.1	0.07	0.8
4/16/2007	13:45:00	12.1	0.07	0.8
4/16/2007	14:00:00	12.1	0.07	0.8
4/16/2007	14:15:00	12.1	0.07	0.8
4/16/2007	14:30:00	12.1	0.07	0.8
4/16/2007	14:45:00	12.1	0.07	0.8
4/16/2007	15:00:00	12.1	0.07	0.8
4/16/2007	15:15:00	12.1	0.07	0.8
4/16/2007	15:30:00	12.1	0.07	0.8
4/16/2007	15:45:00	12.1	0.07	0.8
4/16/2007	16:00:00	12.1	0.07	0.8
4/16/2007	16:15:00	12.1	0.07	0.8
4/16/2007	16:30:00	12.1	0.07	0.8
4/16/2007	16:45:00	12.1	0.07	0.8
4/16/2007	17:00:00	12.1	0.07	0.8

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/16/2007	17:15:00	12.1	0.07	0.8
4/16/2007	17:30:00	12.1	0.07	0.8
4/16/2007	17:45:00	12.1	0.07	0.8
4/16/2007	18:00:00	12.1	0.07	0.8
4/16/2007	18:15:00	12.2	0.07	0.8
4/16/2007	18:30:00	12.2	0.07	0.8
4/16/2007	18:45:00	12.2	0.07	0.8
4/16/2007	19:00:00	12.2	0.07	0.8
4/16/2007	19:15:00	12.2	0.07	0.8
4/16/2007	19:30:00	12.2	0.07	0.8
4/16/2007	19:45:00	12.2	0.07	0.8
4/16/2007	20:00:00	12.2	0.07	0.8
4/16/2007	20:15:00	12.2	0.07	0.8
4/16/2007	20:30:00	12.2	0.07	0.8
4/16/2007	20:45:00	12.2	0.07	0.8
4/16/2007	21:00:00	12.3	0.07	0.8
4/16/2007	21:15:00	12.3	0.07	0.8
4/16/2007	21:30:00	12.3	0.07	0.8
4/16/2007	21:45:00	12.3	0.07	0.8
4/16/2007	22:00:00	12.3	0.07	0.8
4/16/2007	22:15:00	12.3	0.07	0.8
4/16/2007	22:30:00	12.3	0.07	0.8
4/16/2007	22:45:00	12.3	0.07	0.8
4/16/2007	23:00:00	12.4	0.07	0.8
4/16/2007	23:15:00	12.4	0.07	0.8
4/16/2007	23:30:00	12.4	0.07	0.8
4/16/2007	23:45:00	12.4	0.07	0.8
4/17/2007	0:00:00	12.4	0.07	0.8
4/17/2007	0:15:00	12.4	0.07	0.8
4/17/2007	0:30:00	12.4	0.07	0.8
4/17/2007	0:45:00	12.5	0.07	0.8
4/17/2007	1:00:00	12.5	0.07	0.8
4/17/2007	1:15:00	12.5	0.07	0.8
4/17/2007	1:30:00	12.5	0.07	0.8
4/17/2007	1:45:00	12.5	0.07	0.8
4/17/2007	2:00:00	12.5	0.07	0.8
4/17/2007	2:15:00	12.6	0.07	0.8
4/17/2007	2:30:00	12.6	0.07	0.8
4/17/2007	2:45:00	12.6	0.07	0.8
4/17/2007	3:00:00	12.6	0.07	0.8
4/17/2007	3:15:00	12.6	0.07	0.8
4/17/2007	3:30:00	12.6	0.07	0.8
4/17/2007	3:45:00	12.6	0.07	0.8
4/17/2007	4:00:00	12.6	0.07	0.8
4/17/2007	4:15:00	12.6	0.07	0.8

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/17/2007	4:30:00	12.7	0.07	0.8
4/17/2007	4:45:00	12.7	0.07	0.8
4/17/2007	5:00:00	12.7	0.07	0.8
4/17/2007	5:15:00	12.7	0.07	0.8
4/17/2007	5:30:00	12.7	0.07	0.8
4/17/2007	5:45:00	12.7	0.07	0.8
4/17/2007	6:00:00	12.7	0.07	0.8
4/17/2007	6:15:00	12.7	0.07	0.8
4/17/2007	6:30:00	12.7	0.07	0.8
4/17/2007	6:45:00	12.7	0.07	0.8
4/17/2007	7:00:00	12.7	0.07	0.8
4/17/2007	7:15:00	12.7	0.07	0.8
4/17/2007	7:30:00	12.7	0.07	0.8
4/17/2007	7:45:00	12.7	0.07	0.8
4/17/2007	8:00:00	12.8	0.07	0.8
4/17/2007	8:15:00	12.8	0.07	0.8
4/17/2007	8:30:00	12.8	0.07	0.8
4/17/2007	8:45:00	12.8	0.07	0.8
4/17/2007	9:00:00	12.8	0.07	0.8
4/17/2007	9:15:00	12.8	0.07	0.8
4/17/2007	9:30:00	12.8	0.07	0.8
4/17/2007	9:45:00	12.8	0.07	0.8
4/17/2007	10:00:00	12.8	0.07	0.8
4/17/2007	10:15:00	12.8	0.07	0.8
4/17/2007	10:30:00	12.8	0.07	0.8
4/17/2007	10:45:00	12.8	0.07	0.8
4/17/2007	11:00:00	12.8	0.07	0.8
4/17/2007	11:15:00	12.8	0.07	0.8
4/17/2007	11:30:00	12.8	0.07	0.8
4/17/2007	11:45:00	12.8	0.07	0.8
4/17/2007	12:00:00	12.8	0.07	0.8
4/17/2007	12:15:00	12.8	0.07	0.8
4/17/2007	12:30:00	12.8	0.07	0.8
4/17/2007	12:45:00	12.8	0.07	0.8
4/17/2007	13:00:00	12.8	0.07	0.8
4/17/2007	13:15:00	12.8	0.07	0.8
4/17/2007	13:30:00	12.8	0.07	0.8
4/17/2007	13:45:00	12.8	0.07	0.8
4/17/2007	14:00:00	12.8	0.07	0.8
4/17/2007	14:15:00	12.8	0.07	0.8
4/17/2007	14:30:00	12.8	0.07	0.8
4/17/2007	14:45:00	12.8	0.07	0.8
4/17/2007	15:00:00	12.8	0.07	0.8
4/17/2007	15:15:00	12.8	0.07	0.8
4/17/2007	15:30:00	12.8	0.07	0.8

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/17/2007	15:45:00	12.8	0.07	0.8
4/17/2007	16:00:00	12.7	0.07	0.8
4/17/2007	16:15:00	12.7	0.07	0.8
4/17/2007	16:30:00	12.8	0.07	0.8
4/17/2007	16:45:00	12.7	0.07	0.8
4/17/2007	17:00:00	12.8	0.07	0.8
4/17/2007	17:15:00	12.8	0.07	0.8
4/17/2007	17:30:00	12.7	0.07	0.8
4/17/2007	17:45:00	12.7	0.07	0.8
4/17/2007	18:00:00	12.8	0.07	0.8
4/17/2007	18:15:00	12.8	0.07	0.8
4/17/2007	18:30:00	12.8	0.07	0.8
4/17/2007	18:45:00	12.8	0.07	0.8
4/17/2007	19:00:00	12.8	0.07	0.8
4/17/2007	19:15:00	12.8	0.07	0.8
4/17/2007	19:30:00	12.8	0.07	0.8
4/17/2007	19:45:00	12.8	0.07	0.8
4/17/2007	20:00:00	12.8	0.07	0.8
4/17/2007	20:15:00	12.8	0.07	0.8
4/17/2007	20:30:00	12.8	0.07	0.8
4/17/2007	20:45:00	12.8	0.07	0.8
4/17/2007	21:00:00	12.8	0.07	0.8
4/17/2007	21:15:00	12.8	0.07	0.8
4/17/2007	21:30:00	12.8	0.07	0.8
4/17/2007	21:45:00	12.8	0.07	0.8
4/17/2007	22:00:00	12.8	0.07	0.8
4/17/2007	22:15:00	12.8	0.07	0.8
4/17/2007	22:30:00	12.9	0.07	0.8
4/17/2007	22:45:00	12.9	0.07	0.8
4/17/2007	23:00:00	12.9	0.07	0.8
4/17/2007	23:15:00	12.9	0.07	0.8
4/17/2007	23:30:00	12.9	0.07	0.8
4/17/2007	23:45:00	12.9	0.07	0.8
4/18/2007	0:00:00	12.9	0.07	0.8
4/18/2007	0:15:00	12.9	0.07	0.8
4/18/2007	0:30:00	12.9	0.07	0.8
4/18/2007	0:45:00	13.0	0.07	0.8
4/18/2007	1:00:00	13.0	0.07	0.8
4/18/2007	1:15:00	13.0	0.07	0.8
4/18/2007	1:30:00	13.0	0.07	0.8
4/18/2007	1:45:00	13.0	0.07	0.8
4/18/2007	2:00:00	13.0	0.07	0.8
4/18/2007	2:15:00	13.0	0.07	0.8
4/18/2007	2:30:00	13.0	0.07	0.8
4/18/2007	2:45:00	13.0	0.07	0.8

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	3:00:00	13.0	0.07	0.8
4/18/2007	3:15:00	13.1	0.07	0.8
4/18/2007	3:30:00	13.1	0.07	0.8
4/18/2007	3:45:00	13.1	0.07	0.8
4/18/2007	4:00:00	13.1	0.07	0.8
4/18/2007	4:15:00	13.1	0.07	0.8
4/18/2007	4:30:00	13.1	0.07	0.8
4/18/2007	4:45:00	13.1	0.07	0.8
4/18/2007	5:00:00	13.1	0.07	0.8
4/18/2007	5:15:00	13.1	0.07	0.8
4/18/2007	5:30:00	13.1	0.07	0.8
4/18/2007	5:45:00	13.1	0.07	0.8
4/18/2007	6:00:00	13.1	0.07	0.8
4/18/2007	6:15:00	13.1	0.07	0.8
4/18/2007	6:30:00	13.2	0.07	0.8
4/18/2007	6:45:00	13.2	0.07	0.8
4/18/2007	7:00:00	13.2	0.07	0.8
4/18/2007	7:15:00	13.2	0.07	0.8
4/18/2007	7:30:00	13.2	0.07	0.8
4/18/2007	7:45:00	13.2	0.07	0.8
4/18/2007	8:00:00	13.2	0.07	0.8
4/18/2007	8:15:00	13.2	0.07	0.8
4/18/2007	8:30:00	13.2	0.07	0.8
4/18/2007	8:45:00	13.2	0.07	0.8
4/18/2007	9:00:00	13.2	0.07	0.8
4/18/2007	9:15:00	13.2	0.07	0.8
4/18/2007	9:30:00	13.2	0.07	0.8
4/18/2007	9:45:00	13.2	0.07	0.8
4/18/2007	10:00:00	13.2	0.07	0.8
4/18/2007	10:15:00	13.2	0.07	0.8
4/18/2007	10:30:00	13.2	0.07	0.8
4/18/2007	10:45:00	13.2	0.07	0.8
4/18/2007	11:00:00	13.2	0.07	0.8
4/18/2007	11:15:00	13.2	0.07	0.8
4/18/2007	11:30:00	13.2	0.07	0.8
4/18/2007	11:45:00	13.2	0.07	0.8
4/18/2007	12:00:00	13.2	0.07	0.8
4/18/2007	12:15:00	13.2	0.07	0.8
4/18/2007	12:30:00	13.2	0.07	0.8
4/18/2007	12:45:00	13.2	0.07	0.8
4/18/2007	13:00:00	13.2	0.07	0.8
4/18/2007	13:15:00	13.2	0.07	0.8
4/18/2007	13:30:00	13.2	0.07	0.8
4/18/2007	13:45:00	13.2	0.07	0.8
4/18/2007	14:00:00	13.2	0.07	0.8

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	14:15:00	13.2	0.07	0.8
4/18/2007	14:30:00	13.2	0.07	0.8
4/18/2007	14:45:00	13.2	0.07	0.8
4/18/2007	15:00:00	13.2	0.07	0.8
4/18/2007	15:15:00	13.2	0.07	0.8
4/18/2007	15:30:00	13.2	0.07	0.8
4/18/2007	15:45:00	13.2	0.07	0.8
4/18/2007	16:00:00	13.2	0.07	0.8
4/18/2007	16:15:00	13.2	0.07	0.8
4/18/2007	16:30:00	13.2	0.07	0.8
4/18/2007	16:45:00	13.2	0.07	0.8
4/18/2007	17:00:00	13.2	0.07	0.8
4/18/2007	17:15:00	13.2	0.07	0.8
4/18/2007	17:30:00	13.2	0.07	0.8
4/18/2007	17:45:00	13.2	0.07	0.8
4/18/2007	18:00:00	13.2	0.07	0.8
4/18/2007	18:15:00	13.2	0.07	0.8
4/18/2007	18:30:00	13.3	0.07	0.8
4/18/2007	18:45:00	13.2	0.07	0.8
4/18/2007	19:00:00	13.2	0.07	0.8
4/18/2007	19:15:00	13.3	0.07	0.8
4/18/2007	19:30:00	13.3	0.07	0.8
4/18/2007	19:45:00	13.3	0.07	0.8
4/18/2007	20:00:00	13.3	0.07	0.8
4/18/2007	20:15:00	13.3	0.07	0.8
4/18/2007	20:30:00	13.3	0.07	0.8
4/18/2007	20:45:00	13.3	0.07	0.8
4/18/2007	21:00:00	13.3	0.07	0.8
4/18/2007	21:15:00	13.3	0.07	0.8
4/18/2007	21:30:00	13.4	0.07	0.8
4/18/2007	21:45:00	13.4	0.07	0.8
4/18/2007	22:00:00	13.4	0.07	0.8
4/18/2007	22:15:00	13.4	0.07	0.8
4/18/2007	22:30:00	13.4	0.07	0.8
4/18/2007	22:45:00	13.4	0.07	0.8
4/18/2007	23:00:00	13.4	0.07	0.8
4/18/2007	23:15:00	13.4	0.07	0.8
4/18/2007	23:30:00	13.4	0.07	0.8
4/18/2007	23:45:00	13.5	0.07	0.8
4/19/2007	0:00:00	13.5	0.07	0.8
4/19/2007	0:15:00	13.5	0.07	0.8
4/19/2007	0:30:00	13.5	0.07	0.8
4/19/2007	0:45:00	13.5	0.07	0.8
4/19/2007	1:00:00	13.5	0.06	0.8
4/19/2007	1:15:00	13.5	0.06	0.8

Table 5.33. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	1:30:00	13.5	0.06	0.8
4/19/2007	1:45:00	13.5	0.06	0.8
4/19/2007	2:00:00	13.6	0.06	0.8
4/19/2007	2:15:00	13.6	0.06	0.8
4/19/2007	2:30:00	13.6	0.06	0.8
4/19/2007	2:45:00	13.6	0.06	0.8
4/19/2007	3:00:00	13.6	0.06	0.8
4/19/2007	3:15:00	13.6	0.06	0.8
4/19/2007	3:30:00	13.6	0.06	0.8
4/19/2007	3:45:00	13.6	0.06	0.8
4/19/2007	4:00:00	13.6	0.06	0.8
4/19/2007	4:15:00	13.6	0.06	0.8
4/19/2007	4:30:00	13.6	0.06	0.8
4/19/2007	4:45:00	13.6	0.06	0.8
4/19/2007	5:00:00	13.6	0.06	0.8
4/19/2007	5:15:00	13.7	0.06	0.8
4/19/2007	5:30:00	13.7	0.06	0.8
4/19/2007	5:45:00	13.7	0.06	0.8
4/19/2007	6:00:00	13.7	0.06	0.8
4/19/2007	6:15:00	13.7	0.06	0.8
4/19/2007	6:30:00	13.7	0.06	0.8
4/19/2007	6:45:00	13.7	0.06	0.8
4/19/2007	7:00:00	13.7	0.06	0.8
4/19/2007	7:15:00	13.7	0.06	0.8
4/19/2007	7:30:00	13.7	0.06	0.8
4/19/2007	7:45:00	13.7	0.06	0.8
4/19/2007	8:00:00	13.7	0.06	0.8
4/19/2007	8:15:00	13.7	0.06	0.8
4/19/2007	8:30:00	13.7	0.06	0.8
4/19/2007	8:45:00	13.7	0.06	0.8
4/19/2007	9:00:00	13.7	0.06	0.8
4/19/2007	9:15:00	13.7	0.07	0.8
4/19/2007	9:30:00	13.7	0.07	0.8
4/19/2007	9:45:00	13.7	0.07	0.8
4/19/2007	10:00:00	13.7	0.07	0.8
4/19/2007	10:15:00	13.7	0.07	0.8
4/19/2007	10:30:00	13.7	0.07	0.8
4/19/2007	10:45:00	13.7	0.07	0.8
4/19/2007	11:00:00	13.7	0.07	0.8
4/19/2007	11:15:00	13.7	0.07	0.8
4/19/2007	11:30:00	13.7	0.07	0.8

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**site4_4_13_07**
Setup	**Date**	**(MMDDYY)**	**:**	**4/13/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**11:11**
Starting	**Date**	**(MMDDYY)**	**:**	
Starting	**Time**	**(HHMMSS)**	**:**	
Stopping	**Date**	**(MMDDYY)**	**:**	**4/19/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**11:50**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
4/13/2007	14:30:00	10.8	251	7.87	8.70	95.0
4/13/2007	14:45:00	10.8	250	7.88	8.47	92.6
4/13/2007	15:00:00	10.8	249	7.88	8.59	93.9
4/13/2007	15:15:00	10.8	248	7.88	8.50	93.0
4/13/2007	15:30:00	10.8	247	7.87	8.52	93.2
4/13/2007	15:45:00	10.8	244	7.87	8.54	93.3
4/13/2007	16:00:00	10.7	241	7.86	8.49	92.6
4/13/2007	16:15:00	10.6	237	7.85	8.45	92.1
4/13/2007	16:30:00	10.6	233	7.84	8.47	92.2
4/13/2007	16:45:00	10.5	230	7.86	8.39	91.1
4/13/2007	17:00:00	10.4	228	7.83	8.43	91.4
4/13/2007	17:15:00	10.4	227	7.83	8.38	90.8
4/13/2007	17:30:00	10.4	227	7.82	8.35	90.4
4/13/2007	17:45:00	10.4	226	7.83	8.27	89.5
4/13/2007	18:00:00	10.4	225	7.82	8.26	89.4
4/13/2007	18:15:00	10.4	225	7.82	8.24	89.2
4/13/2007	18:30:00	10.4	225	7.81	8.12	87.9
4/13/2007	18:45:00	10.4	227	7.81	8.23	89.1
4/13/2007	19:00:00	10.4	229	7.82	8.08	87.4
4/13/2007	19:15:00	10.4	230	7.80	8.20	88.7
4/13/2007	19:30:00	10.3	231	7.80	8.15	88.2
4/13/2007	19:45:00	10.3	231	7.79	8.19	88.5
4/13/2007	20:00:00	10.3	232	7.78	8.14	88.1
4/13/2007	20:15:00	10.3	233	7.79	8.14	88.0
4/13/2007	20:30:00	10.3	233	7.78	8.11	87.6
4/13/2007	20:45:00	10.3	234	7.77	8.20	88.6
4/13/2007	21:00:00	10.2	235	7.77	8.14	87.8
4/13/2007	21:15:00	10.2	235	7.78	8.27	89.1
4/13/2007	21:30:00	10.1	234	7.78	8.20	88.3
4/13/2007	21:45:00	10.1	234	7.77	8.33	89.6
4/13/2007	22:00:00	10.1	232	7.77	8.32	89.4

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2007	22:15:00	10.0	231	7.78	8.23	88.4
4/13/2007	22:30:00	10.0	229	7.78	8.32	89.2
4/13/2007	22:45:00	9.9	227	7.78	8.28	88.7
4/13/2007	23:00:00	9.9	226	7.78	8.26	88.4
4/13/2007	23:15:00	9.8	224	7.78	8.14	87.0
4/13/2007	23:30:00	9.8	223	7.79	8.26	88.2
4/13/2007	23:45:00	9.7	220	7.80	8.15	86.9
4/14/2007	0:00:00	9.6	217	7.80	8.15	86.8
4/14/2007	0:15:00	9.6	213	7.81	8.17	86.7
4/14/2007	0:30:00	9.5	209	7.81	8.13	86.2
4/14/2007	0:45:00	9.4	206	7.82	7.95	84.2
4/14/2007	1:00:00	9.4	203	7.82	7.96	84.2
4/14/2007	1:15:00	9.3	200	7.82	7.90	83.3
4/14/2007	1:30:00	9.2	198	7.83	7.98	84.0
4/14/2007	1:45:00	9.1	196	7.84	7.97	83.8
4/14/2007	2:00:00	9.1	196	7.84	8.06	84.6
4/14/2007	2:15:00	9.0	195	7.85	8.13	85.2
4/14/2007	2:30:00	8.9	195	7.84	8.08	84.5
4/14/2007	2:45:00	8.8	196	7.87	8.13	84.9
4/14/2007	3:00:00	8.8	197	7.87	8.23	85.8
4/14/2007	3:15:00	8.7	197	7.87	8.29	86.3
4/14/2007	3:30:00	8.7	199	7.86	8.23	85.6
4/14/2007	3:45:00	8.6	201	7.86	8.18	84.9
4/14/2007	4:00:00	8.5	203	7.86	8.30	86.0
4/14/2007	4:15:00	8.5	205	7.85	8.32	86.1
4/14/2007	4:30:00	8.4	207	7.86	8.28	85.6
4/14/2007	4:45:00	8.4	209	7.86	8.37	86.5
4/14/2007	5:00:00	8.3	211	7.85	8.39	86.6
4/14/2007	5:15:00	8.3	213	7.85	8.07	83.2
4/14/2007	5:30:00	8.3	215	7.85	7.87	81.1
4/14/2007	5:45:00	8.3	217	7.85	7.99	82.4
4/14/2007	6:00:00	8.3	218	7.84	8.16	84.0
4/14/2007	6:15:00	8.3	220	7.82	7.87	81.1
4/14/2007	6:30:00	8.3	222	7.81	5.67	58.5
4/14/2007	6:45:00	8.3	223	7.79	4.92	50.7
4/14/2007	7:00:00	8.3	225	7.78	4.52*	46.6
4/14/2007	7:15:00	8.3	225	7.77	4.34	44.8
4/14/2007	7:30:00	8.3	225	7.77	4.18	43.1
4/14/2007	7:45:00	8.3	225	7.75	4.04	41.7
4/14/2007	8:00:00	8.4	225	7.75	4.01	41.4
4/14/2007	8:15:00	8.4	225	7.74	3.75	38.7
4/14/2007	8:30:00	8.4	225	7.73	3.58	37.0
4/14/2007	8:45:00	8.4	225	7.72	3.44	35.6
4/14/2007	9:00:00	8.4	225	7.71	3.35	34.6
4/14/2007	9:15:00	8.5	226	7.70	3.36	34.7

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2007	9:30:00	8.5	226	7.70	3.27	33.9
4/14/2007	9:45:00	8.5	226	7.69	3.29	34.1
4/14/2007	10:00:00	8.5	226	7.69	3.20	33.1
4/14/2007	10:15:00	8.5	226	7.68	3.14	32.6
4/14/2007	10:30:00	8.6	227	7.68	3.12	32.4
4/14/2007	10:45:00	8.6	227	7.67	3.05	31.6
4/14/2007	11:00:00	8.6	227	7.67	3.00	31.1
4/14/2007	11:15:00	8.6	228	7.67	2.99	31.0
4/14/2007	11:30:00	8.7	228	7.67	2.89	30.0
4/14/2007	11:45:00	8.7	228	7.67	2.76	28.7
4/14/2007	12:00:00	8.7	228	7.66	2.67	27.8
4/14/2007	12:15:00	8.8	229	7.66	2.67	27.8
4/14/2007	12:30:00	8.8	229	7.66	2.54	26.5
4/14/2007	12:45:00	8.8	229	7.65	2.44	25.5
4/14/2007	13:00:00	8.9	230	7.65	2.25	23.6
4/14/2007	13:15:00	8.9	230	7.64	2.22	23.3
4/14/2007	13:30:00	9.0	230	7.64	2.24	23.4
4/14/2007	13:45:00	9.0	230	7.64	2.28	23.9
4/14/2007	14:00:00	9.1	231	7.64	2.11	22.2
4/14/2007	14:15:00	9.1	231	7.64	1.93	20.2
4/14/2007	14:30:00	9.2	232	7.64	1.92	20.2
4/14/2007	14:45:00	9.3	232	7.63	1.83	19.3
4/14/2007	15:00:00	9.3	233	7.63	1.83	19.3
4/14/2007	15:15:00	9.4	233	7.62	1.79	19.0
4/14/2007	15:30:00	9.5	234	7.61	1.78	18.8
4/14/2007	15:45:00	9.5	235	7.61	1.64	17.4
4/14/2007	16:00:00	9.6	237	7.61	1.54	16.4
4/14/2007	16:15:00	9.6	239	7.61	1.35	14.4
4/14/2007	16:30:00	9.7	240	7.61	1.35	14.4
4/14/2007	16:45:00	9.7	240	7.61	1.32	14.1
4/14/2007	17:00:00	9.7	240	7.61	1.30	13.9
4/14/2007	17:15:00	9.8	240	7.61	1.33	14.2
4/14/2007	17:30:00	9.8	241	7.60	1.33	14.2
4/14/2007	17:45:00	9.8	241	7.60	1.24	13.2
4/14/2007	18:00:00	9.9	241	7.60	1.23	13.2
4/14/2007	18:15:00	9.9	242	7.60	1.20	12.8
4/14/2007	18:30:00	9.9	242	7.60	1.13	12.1
4/14/2007	18:45:00	10.0	242	7.60	1.05	11.2
4/14/2007	19:00:00	10.0	243	7.60	1.05	11.3
4/14/2007	19:15:00	10.0	243	7.61	0.92	9.8
4/14/2007	19:30:00	10.0	245	7.61	0.84	9.0
4/14/2007	19:45:00	10.1	246	7.60	0.81	8.8
4/14/2007	20:00:00	10.1	247	7.61	0.81	8.7
4/14/2007	20:15:00	10.1	248	7.61	0.70	7.6
4/14/2007	20:30:00	10.2	249	7.60	0.70	7.5

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2007	20:45:00	10.2	250	7.61	0.63	6.8
4/14/2007	21:00:00	10.2	251	7.61	0.63	6.8
4/14/2007	21:15:00	10.2	252	7.62	0.63	6.8
4/14/2007	21:30:00	10.3	252	7.60	0.58	6.3
4/14/2007	21:45:00	10.3	253	7.60	0.53	5.7
4/14/2007	22:00:00	10.3	253	7.61	0.55	6.0
4/14/2007	22:15:00	10.3	254	7.61	0.58	6.2
4/14/2007	22:30:00	10.4	254	7.58	0.53	5.7
4/14/2007	22:45:00	10.4	254	7.60	0.52	5.6
4/14/2007	23:00:00	10.4	254	7.59	0.48	5.1
4/14/2007	23:15:00	10.4	255	7.59	0.45	4.9
4/14/2007	23:30:00	10.5	255	7.60	0.43	4.6
4/14/2007	23:45:00	10.5	256	7.61	0.37	4.1
4/15/2007	0:00:00	10.5	256	7.61	0.32	3.5
4/15/2007	0:15:00	10.5	257	7.61	0.31	3.3
4/15/2007	0:30:00	10.5	257	7.60	0.31	3.4
4/15/2007	0:45:00	10.6	257	7.60	0.29	3.1
4/15/2007	1:00:00	10.6	257	7.60	0.28	3.1
4/15/2007	1:15:00	10.6	257	7.60	0.27	3.0
4/15/2007	1:30:00	10.6	258	7.59	0.26	2.8
4/15/2007	1:45:00	10.7	258	7.60	0.25	2.7
4/15/2007	2:00:00	10.7	258	7.60	0.20	2.2
4/15/2007	2:15:00	10.7	258	7.59	0.27	3.0
4/15/2007	2:30:00	10.7	258	7.59	0.25	2.8
4/15/2007	2:45:00	10.7	258	7.60	0.22	2.4
4/15/2007	3:00:00	10.8	259	7.60	0.17	1.9
4/15/2007	3:15:00	10.8	259	7.59	0.22	2.4
4/15/2007	3:30:00	10.8	259	7.58	0.18	2.0
4/15/2007	3:45:00	10.8	259	7.58	0.24	2.6
4/15/2007	4:00:00	10.8	259	7.58	0.23	2.5
4/15/2007	4:15:00	10.8	259	7.58	0.14	1.5
4/15/2007	4:30:00	10.8	260	7.60	0.17	1.8
4/15/2007	4:45:00	10.9	260	7.59	0.17	1.9
4/15/2007	5:00:00	10.9	260	7.59	0.18	2.0
4/15/2007	5:15:00	10.9	260	7.59	0.13	1.4
4/15/2007	5:30:00	10.9	260	7.59	0.13	1.4
4/15/2007	5:45:00	10.9	260	7.58	0.13	1.5
4/15/2007	6:00:00	10.9	260	7.58	0.13	1.4
4/15/2007	6:15:00	10.9	260	7.58	0.16	1.8
4/15/2007	6:30:00	10.9	260	7.59	0.11	1.2
4/15/2007	6:45:00	10.9	261	7.59	0.12	1.4
4/15/2007	7:00:00	10.9	261	7.59	0.13	1.4
4/15/2007	7:15:00	10.9	261	7.59	0.10	1.0
4/15/2007	7:30:00	10.9	261	7.59	0.14	1.6
4/15/2007	7:45:00	10.9	261	7.59	0.15	1.6

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2007	8:00:00	10.9	261	7.58	0.12	1.3
4/15/2007	8:15:00	10.9	261	7.58	0.12	1.4
4/15/2007	8:30:00	10.9	261	7.59	0.10	1.0
4/15/2007	8:45:00	10.9	262	7.59	0.13	1.4
4/15/2007	9:00:00	10.9	262	7.59	0.12	1.3
4/15/2007	9:15:00	10.9	262	7.60	0.09	1.0
4/15/2007	9:30:00	10.9	262	7.59	0.10	1.0
4/15/2007	9:45:00	10.9	262	7.59	0.09	1.0
4/15/2007	10:00:00	10.9	262	7.59	0.12	1.4
4/15/2007	10:15:00	10.9	262	7.60	0.10	1.1
4/15/2007	10:30:00	10.9	262	7.60	0.13	1.4
4/15/2007	10:45:00	10.9	262	7.60	0.12	1.4
4/15/2007	11:00:00	10.9	263	7.60	0.12	1.4
4/15/2007	11:15:00	10.9	263	7.60	0.09	1.0
4/15/2007	11:30:00	10.9	263	7.60	0.14	1.5
4/15/2007	11:45:00	10.9	263	7.59	0.12	1.4
4/15/2007	12:00:00	10.9	263	7.60	0.14	1.5
4/15/2007	12:15:00	10.9	263	7.59	0.12	1.3
4/15/2007	12:30:00	10.9	263	7.59	0.10	1.0
4/15/2007	12:45:00	10.9	263	7.59	0.13	1.4
4/15/2007	13:00:00	10.9	263	7.59	0.12	1.4
4/15/2007	13:15:00	10.9	263	7.59	0.13	1.4
4/15/2007	13:30:00	10.9	263	7.58	0.13	1.4
4/15/2007	13:45:00	10.9	263	7.58	0.08	0.9
4/15/2007	14:00:00	10.9	264	7.59	0.11	1.2
4/15/2007	14:15:00	10.9	264	7.59	0.10	1.0
4/15/2007	14:30:00	10.9	264	7.59	0.11	1.2
4/15/2007	14:45:00	10.9	264	7.59	0.09	1.0
4/15/2007	15:00:00	10.9	264	7.59	0.12	1.3
4/15/2007	15:15:00	10.9	264	7.59	0.12	1.3
4/15/2007	15:30:00	10.9	265	7.59	0.12	1.3
4/15/2007	15:45:00	10.9	265	7.59	0.09	1.0
4/15/2007	16:00:00	10.9	265	7.60	0.11	1.2
4/15/2007	16:15:00	10.9	265	7.60	0.11	1.2
4/15/2007	16:30:00	10.9	265	7.60	0.08	0.9
4/15/2007	16:45:00	10.9	265	7.60	0.07	0.7
4/15/2007	17:00:00	10.9	266	7.59	0.10	1.1
4/15/2007	17:15:00	10.9	266	7.59	0.12	1.3
4/15/2007	17:30:00	11.0	266	7.59	0.09	1.0
4/15/2007	17:45:00	11.0	266	7.60	0.11	1.2
4/15/2007	18:00:00	11.0	266	7.60	0.10	1.1
4/15/2007	18:15:00	11.0	266	7.59	0.06	0.7
4/15/2007	18:30:00	11.0	266	7.59	0.07	0.7
4/15/2007	18:45:00	11.0	266	7.60	0.10	1.0
4/15/2007	19:00:00	11.0	267	7.60	0.07	0.8

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2007	19:15:00	11.0	267	7.60	0.11	1.2
4/15/2007	19:30:00	11.1	267	7.60	0.11	1.3
4/15/2007	19:45:00	11.1	267	7.61	0.06	0.7
4/15/2007	20:00:00	11.1	267	7.61	0.06	0.7
4/15/2007	20:15:00	11.1	267	7.61	0.08	0.8
4/15/2007	20:30:00	11.1	268	7.61	0.10	1.1
4/15/2007	20:45:00	11.1	268	7.61	0.07	0.8
4/15/2007	21:00:00	11.2	268	7.61	0.11	1.3
4/15/2007	21:15:00	11.2	268	7.60	0.08	0.9
4/15/2007	21:30:00	11.2	268	7.60	0.06	0.7
4/15/2007	21:45:00	11.2	269	7.60	0.09	1.0
4/15/2007	22:00:00	11.2	269	7.60	0.10	1.1
4/15/2007	22:15:00	11.2	269	7.60	0.07	0.8
4/15/2007	22:30:00	11.3	269	7.60	0.09	1.0
4/15/2007	22:45:00	11.3	269	7.60	0.11	1.2
4/15/2007	23:00:00	11.3	270	7.61	0.06	0.7
4/15/2007	23:15:00	11.3	270	7.61	0.11	1.2
4/15/2007	23:30:00	11.3	270	7.61	0.08	0.9
4/15/2007	23:45:00	11.3	270	7.61	0.11	1.3
4/16/2007	0:00:00	11.4	271	7.61	0.08	0.9
4/16/2007	0:15:00	11.4	271	7.61	0.07	0.8
4/16/2007	0:30:00	11.4	271	7.61	0.07	0.8
4/16/2007	0:45:00	11.4	272	7.61	0.07	0.7
4/16/2007	1:00:00	11.4	272	7.61	0.11	1.2
4/16/2007	1:15:00	11.5	273	7.61	0.11	1.2
4/16/2007	1:30:00	11.5	273	7.61	0.07	0.8
4/16/2007	1:45:00	11.5	273	7.61	0.08	0.9
4/16/2007	2:00:00	11.5	274	7.61	0.11	1.2
4/16/2007	2:15:00	11.5	274	7.61	0.11	1.2
4/16/2007	2:30:00	11.5	274	7.61	0.11	1.2
4/16/2007	2:45:00	11.6	275	7.62	0.08	0.9
4/16/2007	3:00:00	11.6	275	7.62	0.10	1.2
4/16/2007	3:15:00	11.6	276	7.62	0.08	0.9
4/16/2007	3:30:00	11.6	276	7.62	0.09	1.0
4/16/2007	3:45:00	11.6	276	7.62	0.07	0.8
4/16/2007	4:00:00	11.6	277	7.62	0.07	0.8
4/16/2007	4:15:00	11.7	277	7.63	0.07	0.8
4/16/2007	4:30:00	11.7	277	7.62	0.11	1.2
4/16/2007	4:45:00	11.7	278	7.63	0.08	0.9
4/16/2007	5:00:00	11.7	278	7.63	0.09	1.0
4/16/2007	5:15:00	11.7	279	7.63	0.08	0.9
4/16/2007	5:30:00	11.7	279	7.63	0.11	1.2
4/16/2007	5:45:00	11.7	280	7.63	0.10	1.1
4/16/2007	6:00:00	11.8	281	7.63	0.11	1.2
4/16/2007	6:15:00	11.8	281	7.63	0.08	0.9

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/16/2007	6:30:00	11.8	282	7.63	0.10	1.1
4/16/2007	6:45:00	11.8	283	7.62	0.06	0.7
4/16/2007	7:00:00	11.8	285	7.63	0.06	0.7
4/16/2007	7:15:00	11.8	286	7.62	0.10	1.2
4/16/2007	7:30:00	11.8	287	7.62	0.07	0.8
4/16/2007	7:45:00	11.8	289	7.62	0.09	1.0
4/16/2007	8:00:00	11.8	291	7.62	0.11	1.2
4/16/2007	8:15:00	11.9	294	7.62	0.08	0.9
4/16/2007	8:30:00	11.9	296	7.62	0.11	1.2
4/16/2007	8:45:00	11.9	298	7.62	0.09	1.0
4/16/2007	9:00:00	11.9	301	7.61	0.09	1.0
4/16/2007	9:15:00	11.9	304	7.61	0.06	0.7
4/16/2007	9:30:00	11.9	306	7.61	0.10	1.1
4/16/2007	9:45:00	11.9	308	7.60	0.06	0.7
4/16/2007	10:00:00	11.9	310	7.60	0.09	1.0
4/16/2007	10:15:00	11.9	314	7.60	0.07	0.8
4/16/2007	10:30:00	11.9	317	7.60	0.07	0.8
4/16/2007	10:45:00	11.9	319	7.60	0.08	0.9
4/16/2007	11:00:00	11.9	322	7.60	0.11	1.2
4/16/2007	11:15:00	11.9	325	7.59	0.06	0.7
4/16/2007	11:30:00	11.9	327	7.59	0.08	0.9
4/16/2007	11:45:00	11.9	330	7.59	0.09	1.0
4/16/2007	12:00:00	11.9	333	7.59	0.07	0.8
4/16/2007	12:15:00	11.9	336	7.59	0.11	1.2
4/16/2007	12:30:00	11.9	339	7.59	0.06	0.6
4/16/2007	12:45:00	11.9	341	7.59	0.11	1.2
4/16/2007	13:00:00	11.9	343	7.59	0.09	1.0
4/16/2007	13:15:00	11.9	346	7.59	0.11	1.2
4/16/2007	13:30:00	11.9	349	7.59	0.10	1.1
4/16/2007	13:45:00	11.9	353	7.59	0.10	1.1
4/16/2007	14:00:00	11.9	355	7.59	0.06	0.7
4/16/2007	14:15:00	11.9	358	7.59	0.10	1.1
4/16/2007	14:30:00	11.9	360	7.58	0.08	0.9
4/16/2007	14:45:00	11.9	363	7.58	0.10	1.1
4/16/2007	15:00:00	12.0	365	7.58	0.10	1.2
4/16/2007	15:15:00	12.0	368	7.59	0.10	1.2
4/16/2007	15:30:00	12.0	370	7.58	0.09	1.0
4/16/2007	15:45:00	12.0	372	7.58	0.08	0.9
4/16/2007	16:00:00	12.0	374	7.58	0.07	0.8
4/16/2007	16:15:00	12.0	376	7.58	0.06	0.7
4/16/2007	16:30:00	12.0	378	7.58	0.10	1.2
4/16/2007	16:45:00	12.0	381	7.58	0.08	0.8
4/16/2007	17:00:00	12.0	383	7.58	0.07	0.8
4/16/2007	17:15:00	12.0	386	7.58	0.11	1.2
4/16/2007	17:30:00	12.0	389	7.58	0.08	0.9

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/16/2007	17:45:00	12.0	392	7.58	0.11	1.2
4/16/2007	18:00:00	12.1	395	7.58	0.06	0.7
4/16/2007	18:15:00	12.1	398	7.58	0.07	0.8
4/16/2007	18:30:00	12.1	400	7.58	0.06	0.7
4/16/2007	18:45:00	12.1	402	7.58	0.06	0.7
4/16/2007	19:00:00	12.1	404	7.58	0.08	0.9
4/16/2007	19:15:00	12.1	406	7.58	0.10	1.2
4/16/2007	19:30:00	12.2	408	7.58	0.10	1.1
4/16/2007	19:45:00	12.2	410	7.58	0.08	0.8
4/16/2007	20:00:00	12.2	412	7.58	0.06	0.7
4/16/2007	20:15:00	12.2	414	7.57	0.09	1.0
4/16/2007	20:30:00	12.2	416	7.57	0.09	1.0
4/16/2007	20:45:00	12.3	417	7.57	0.05	0.6
4/16/2007	21:00:00	12.3	419	7.57	0.11	1.2
4/16/2007	21:15:00	12.3	421	7.57	0.08	0.9
4/16/2007	21:30:00	12.3	423	7.57	0.10	1.2
4/16/2007	21:45:00	12.3	424	7.57	0.10	1.2
4/16/2007	22:00:00	12.4	426	7.57	0.09	1.0
4/16/2007	22:15:00	12.4	427	7.57	0.06	0.6
4/16/2007	22:30:00	12.4	428	7.57	0.07	0.8
4/16/2007	22:45:00	12.4	429	7.57	0.07	0.8
4/16/2007	23:00:00	12.4	431	7.57	0.10	1.1
4/16/2007	23:15:00	12.4	432	7.57	0.07	0.8
4/16/2007	23:30:00	12.5	433	7.57	0.06	0.6
4/16/2007	23:45:00	12.5	435	7.57	0.09	1.1
4/17/2007	0:00:00	12.5	436	7.57	0.06	0.7
4/17/2007	0:15:00	12.5	437	7.57	0.09	1.1
4/17/2007	0:30:00	12.5	438	7.57	0.07	0.8
4/17/2007	0:45:00	12.5	439	7.57	0.06	0.6
4/17/2007	1:00:00	12.5	440	7.57	0.10	1.2
4/17/2007	1:15:00	12.6	441	7.57	0.08	1.0
4/17/2007	1:30:00	12.6	442	7.57	0.06	0.7
4/17/2007	1:45:00	12.6	442	7.57	0.06	0.7
4/17/2007	2:00:00	12.6	443	7.58	0.08	1.0
4/17/2007	2:15:00	12.6	443	7.58	0.10	1.1
4/17/2007	2:30:00	12.6	444	7.58	0.09	1.0
4/17/2007	2:45:00	12.6	444	7.58	0.10	1.2
4/17/2007	3:00:00	12.6	445	7.59	0.09	1.0
4/17/2007	3:15:00	12.6	445	7.59	0.07	0.8
4/17/2007	3:30:00	12.7	445	7.58	0.06	0.7
4/17/2007	3:45:00	12.7	445	7.58	0.10	1.2
4/17/2007	4:00:00	12.7	445	7.59	0.10	1.2
4/17/2007	4:15:00	12.7	446	7.59	0.08	0.9
4/17/2007	4:30:00	12.7	446	7.59	0.08	1.0
4/17/2007	4:45:00	12.7	446	7.59	0.11	1.2

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/17/2007	5:00:00	12.7	446	7.59	0.09	1.1
4/17/2007	5:15:00	12.7	446	7.59	0.09	1.1
4/17/2007	5:30:00	12.7	446	7.59	0.06	0.7
4/17/2007	5:45:00	12.7	446	7.59	0.07	0.8
4/17/2007	6:00:00	12.7	446	7.59	0.10	1.1
4/17/2007	6:15:00	12.7	446	7.60	0.06	0.7
4/17/2007	6:30:00	12.7	446	7.60	0.09	1.1
4/17/2007	6:45:00	12.7	446	7.60	0.07	0.8
4/17/2007	7:00:00	12.7	445	7.60	0.10	1.1
4/17/2007	7:15:00	12.7	445	7.60	0.09	1.0
4/17/2007	7:30:00	12.7	445	7.60	0.06	0.7
4/17/2007	7:45:00	12.7	445	7.60	0.06	0.7
4/17/2007	8:00:00	12.7	445	7.60	0.10	1.2
4/17/2007	8:15:00	12.7	444	7.60	0.07	0.8
4/17/2007	8:30:00	12.7	444	7.60	0.06	0.7
4/17/2007	8:45:00	12.7	444	7.60	0.10	1.2
4/17/2007	9:00:00	12.7	444	7.60	0.05	0.6
4/17/2007	9:15:00	12.7	443	7.60	0.06	0.7
4/17/2007	9:30:00	12.7	443	7.61	0.07	0.8
4/17/2007	9:45:00	12.7	443	7.61	0.05	0.6
4/17/2007	10:00:00	12.7	443	7.61	0.06	0.7
4/17/2007	10:15:00	12.7	442	7.61	0.07	0.8
4/17/2007	10:30:00	12.7	442	7.61	0.08	0.9
4/17/2007	10:45:00	12.7	441	7.61	0.06	0.7
4/17/2007	11:00:00	12.7	441	7.61	0.10	1.1
4/17/2007	11:15:00	12.7	441	7.61	0.07	0.8
4/17/2007	11:30:00	12.7	440	7.61	0.08	1.0
4/17/2007	11:45:00	12.7	440	7.61	0.10	1.1
4/17/2007	12:00:00	12.7	439	7.61	0.06	0.6
4/17/2007	12:15:00	12.6	439	7.61	0.07	0.8
4/17/2007	12:30:00	12.6	439	7.61	0.09	1.1
4/17/2007	12:45:00	12.6	439	7.61	0.08	1.0
4/17/2007	13:00:00	12.6	438	7.61	0.09	1.1
4/17/2007	13:15:00	12.6	438	7.62	0.07	0.8
4/17/2007	13:30:00	12.6	437	7.62	0.05	0.6
4/17/2007	13:45:00	12.6	437	7.61	0.07	0.8
4/17/2007	14:00:00	12.6	437	7.62	0.07	0.8
4/17/2007	14:15:00	12.6	437	7.62	0.10	1.1
4/17/2007	14:30:00	12.6	436	7.62	0.07	0.8
4/17/2007	14:45:00	12.6	436	7.62	0.06	0.6
4/17/2007	15:00:00	12.6	436	7.62	0.05	0.6
4/17/2007	15:15:00	12.6	435	7.62	0.06	0.7
4/17/2007	15:30:00	12.6	435	7.62	0.10	1.1
4/17/2007	15:45:00	12.6	435	7.62	0.05	0.6
4/17/2007	16:00:00	12.6	435	7.62	0.09	1.1

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/17/2007	16:15:00	12.6	435	7.63	0.06	0.7
4/17/2007	16:30:00	12.6	434	7.63	0.09	1.0
4/17/2007	16:45:00	12.6	434	7.63	0.05	0.6
4/17/2007	17:00:00	12.6	434	7.63	0.10	1.1
4/17/2007	17:15:00	12.6	434	7.63	0.06	0.7
4/17/2007	17:30:00	12.6	433	7.63	0.05	0.6
4/17/2007	17:45:00	12.6	433	7.63	0.08	0.9
4/17/2007	18:00:00	12.6	433	7.63	0.06	0.6
4/17/2007	18:15:00	12.6	433	7.63	0.07	0.8
4/17/2007	18:30:00	12.6	432	7.63	0.06	0.7
4/17/2007	18:45:00	12.6	432	7.63	0.08	0.9
4/17/2007	19:00:00	12.6	431	7.63	0.06	0.7
4/17/2007	19:15:00	12.7	431	7.63	0.10	1.1
4/17/2007	19:30:00	12.7	431	7.63	0.10	1.1
4/17/2007	19:45:00	12.7	431	7.63	0.07	0.8
4/17/2007	20:00:00	12.7	430	7.63	0.07	0.8
4/17/2007	20:15:00	12.7	430	7.63	0.09	1.1
4/17/2007	20:30:00	12.7	429	7.63	0.09	1.1
4/17/2007	20:45:00	12.7	429	7.64	0.10	1.1
4/17/2007	21:00:00	12.8	428	7.63	0.08	1.0
4/17/2007	21:15:00	12.8	428	7.64	0.06	0.7
4/17/2007	21:30:00	12.8	428	7.64	0.06	0.7
4/17/2007	21:45:00	12.8	427	7.64	0.07	0.8
4/17/2007	22:00:00	12.8	427	7.64	0.06	0.6
4/17/2007	22:15:00	12.8	426	7.64	0.09	1.0
4/17/2007	22:30:00	12.9	426	7.64	0.07	0.8
4/17/2007	22:45:00	12.9	425	7.64	0.07	0.8
4/17/2007	23:00:00	12.9	425	7.64	0.08	0.9
4/17/2007	23:15:00	12.9	424	7.64	0.10	1.1
4/17/2007	23:30:00	12.9	424	7.64	0.05	0.6
4/17/2007	23:45:00	12.9	423	7.64	0.05	0.6
4/18/2007	0:00:00	13.0	423	7.64	0.08	0.9
4/18/2007	0:15:00	13.0	422	7.64	0.10	1.1
4/18/2007	0:30:00	13.0	422	7.64	0.09	1.0
4/18/2007	0:45:00	13.0	421	7.64	0.09	1.0
4/18/2007	1:00:00	13.0	421	7.64	0.05	0.6
4/18/2007	1:15:00	13.0	420	7.64	0.08	0.9
4/18/2007	1:30:00	13.0	419	7.64	0.10	1.1
4/18/2007	1:45:00	13.1	419	7.65	0.06	0.7
4/18/2007	2:00:00	13.1	418	7.65	0.10	1.1
4/18/2007	2:15:00	13.1	417	7.65	0.06	0.7
4/18/2007	2:30:00	13.1	417	7.65	0.09	1.1
4/18/2007	2:45:00	13.1	416	7.65	0.05	0.6
4/18/2007	3:00:00	13.1	416	7.65	0.08	0.9
4/18/2007	3:15:00	13.1	415	7.65	0.10	1.1

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	3:30:00	13.1	415	7.65	0.06	0.7
4/18/2007	3:45:00	13.1	414	7.65	0.08	0.9
4/18/2007	4:00:00	13.1	413	7.66	0.05	0.6
4/18/2007	4:15:00	13.1	413	7.66	0.08	0.9
4/18/2007	4:30:00	13.2	412	7.66	0.07	0.8
4/18/2007	4:45:00	13.2	412	7.66	0.08	0.9
4/18/2007	5:00:00	13.2	411	7.66	0.05	0.6
4/18/2007	5:15:00	13.2	411	7.66	0.09	1.0
4/18/2007	5:30:00	13.2	410	7.66	0.06	0.7
4/18/2007	5:45:00	13.2	409	7.66	0.04	0.5
4/18/2007	6:00:00	13.2	409	7.66	0.07	0.8
4/18/2007	6:15:00	13.2	408	7.66	0.09	1.0
4/18/2007	6:30:00	13.2	408	7.66	0.07	0.8
4/18/2007	6:45:00	13.2	407	7.66	0.09	1.1
4/18/2007	7:00:00	13.2	407	7.66	0.09	1.1
4/18/2007	7:15:00	13.2	406	7.66	0.07	0.8
4/18/2007	7:30:00	13.2	406	7.66	0.10	1.1
4/18/2007	7:45:00	13.2	405	7.66	0.05	0.5
4/18/2007	8:00:00	13.2	405	7.66	0.05	0.6
4/18/2007	8:15:00	13.2	404	7.66	0.07	0.8
4/18/2007	8:30:00	13.2	404	7.66	0.07	0.8
4/18/2007	8:45:00	13.2	403	7.66	0.05	0.6
4/18/2007	9:00:00	13.2	403	7.66	0.05	0.6
4/18/2007	9:15:00	13.2	402	7.66	0.10	1.1
4/18/2007	9:30:00	13.2	402	7.66	0.09	1.0
4/18/2007	9:45:00	13.2	401	7.66	0.07	0.8
4/18/2007	10:00:00	13.2	401	7.66	0.09	1.0
4/18/2007	10:15:00	13.2	400	7.66	0.06	0.7
4/18/2007	10:30:00	13.2	400	7.66	0.10	1.1
4/18/2007	10:45:00	13.2	399	7.66	0.10	1.1
4/18/2007	11:00:00	13.2	399	7.66	0.09	1.0
4/18/2007	11:15:00	13.2	399	7.66	0.09	1.1
4/18/2007	11:30:00	13.2	398	7.66	0.08	1.0
4/18/2007	11:45:00	13.1	398	7.67	0.05	0.6
4/18/2007	12:00:00	13.1	397	7.67	0.05	0.6
4/18/2007	12:15:00	13.1	397	7.66	0.09	1.0
4/18/2007	12:30:00	13.1	396	7.66	0.08	0.9
4/18/2007	12:45:00	13.1	396	7.66	0.08	0.9
4/18/2007	13:00:00	13.1	396	7.67	0.06	0.7
4/18/2007	13:15:00	13.1	395	7.67	0.08	0.9
4/18/2007	13:30:00	13.1	395	7.66	0.09	1.1
4/18/2007	13:45:00	13.1	394	7.67	0.06	0.7
4/18/2007	14:00:00	13.1	394	7.66	0.09	1.0
4/18/2007	14:15:00	13.1	394	7.67	0.09	1.0
4/18/2007	14:30:00	13.1	393	7.67	0.10	1.1

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	14:45:00	13.1	393	7.67	0.08	0.9
4/18/2007	15:00:00	13.1	392	7.67	0.05	0.6
4/18/2007	15:15:00	13.1	392	7.67	0.09	1.1
4/18/2007	15:30:00	13.1	391	7.67	0.05	0.6
4/18/2007	15:45:00	13.1	391	7.67	0.09	1.1
4/18/2007	16:00:00	13.1	391	7.67	0.09	1.1
4/18/2007	16:15:00	13.1	390	7.67	0.06	0.7
4/18/2007	16:30:00	13.1	390	7.67	0.05	0.6
4/18/2007	16:45:00	13.1	390	7.67	0.09	1.1
4/18/2007	17:00:00	13.1	389	7.67	0.06	0.7
4/18/2007	17:15:00	13.1	389	7.67	0.09	1.0
4/18/2007	17:30:00	13.2	388	7.67	0.05	0.6
4/18/2007	17:45:00	13.2	388	7.67	0.09	1.0
4/18/2007	18:00:00	13.2	388	7.67	0.10	1.1
4/18/2007	18:15:00	13.2	387	7.68	0.05	0.6
4/18/2007	18:30:00	13.2	387	7.68	0.05	0.6
4/18/2007	18:45:00	13.2	387	7.68	0.06	0.7
4/18/2007	19:00:00	13.2	386	7.68	0.09	1.0
4/18/2007	19:15:00	13.3	386	7.68	0.10	1.1
4/18/2007	19:30:00	13.3	386	7.67	0.06	0.7
4/18/2007	19:45:00	13.3	385	7.68	0.07	0.8
4/18/2007	20:00:00	13.3	385	7.68	0.09	1.0
4/18/2007	20:15:00	13.3	385	7.68	0.07	0.9
4/18/2007	20:30:00	13.4	385	7.67	0.06	0.7
4/18/2007	20:45:00	13.4	384	7.68	0.05	0.6
4/18/2007	21:00:00	13.4	384	7.67	0.05	0.6
4/18/2007	21:15:00	13.4	384	7.67	0.05	0.6
4/18/2007	21:30:00	13.4	383	7.68	0.07	0.8
4/18/2007	21:45:00	13.4	383	7.68	0.05	0.6
4/18/2007	22:00:00	13.5	383	7.67	0.10	1.1
4/18/2007	22:15:00	13.5	383	7.68	0.07	0.8
4/18/2007	22:30:00	13.5	382	7.68	0.07	0.8
4/18/2007	22:45:00	13.5	382	7.67	0.09	1.1
4/18/2007	23:00:00	13.5	382	7.68	0.08	0.9
4/18/2007	23:15:00	13.6	381	7.68	0.06	0.7
4/18/2007	23:30:00	13.6	381	7.68	0.05	0.6
4/18/2007	23:45:00	13.6	381	7.68	0.05	0.6
4/19/2007	0:00:00	13.6	381	7.68	0.05	0.6
4/19/2007	0:15:00	13.6	380	7.68	0.06	0.7
4/19/2007	0:30:00	13.6	380	7.68	0.06	0.7
4/19/2007	0:45:00	13.6	380	7.68	0.06	0.7
4/19/2007	1:00:00	13.6	379	7.68	0.06	0.7
4/19/2007	1:15:00	13.7	379	7.68	0.09	1.1
4/19/2007	1:30:00	13.7	379	7.67	0.06	0.7
4/19/2007	1:45:00	13.7	379	7.68	0.09	1.1

Table 5.34. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	2:00:00	13.7	378	7.68	0.09	1.0
4/19/2007	2:15:00	13.7	378	7.67	0.05	0.6
4/19/2007	2:30:00	13.7	378	7.67	0.08	1.0
4/19/2007	2:45:00	13.7	378	7.67	0.05	0.6
4/19/2007	3:00:00	13.7	377	7.68	0.05	0.5
4/19/2007	3:15:00	13.7	377	7.67	0.07	0.8
4/19/2007	3:30:00	13.7	377	7.68	0.07	0.8
4/19/2007	3:45:00	13.7	376	7.68	0.07	0.8
4/19/2007	4:00:00	13.7	376	7.68	0.05	0.6
4/19/2007	4:15:00	13.7	376	7.68	0.06	0.7
4/19/2007	4:30:00	13.7	376	7.67	0.06	0.7
4/19/2007	4:45:00	13.7	375	7.68	0.10	1.1
4/19/2007	5:00:00	13.7	375	7.68	0.10	1.1
4/19/2007	5:15:00	13.7	375	7.68	0.08	0.9
4/19/2007	5:30:00	13.7	375	7.68	0.06	0.7
4/19/2007	5:45:00	13.7	374	7.67	0.09	1.0
4/19/2007	6:00:00	13.7	374	7.67	0.08	0.9
4/19/2007	6:15:00	13.7	374	7.67	0.09	1.0
4/19/2007	6:30:00	13.7	374	7.67	0.06	0.7
4/19/2007	6:45:00	13.7	373	7.68	0.09	1.1
4/19/2007	7:00:00	13.7	373	7.67	0.06	0.7
4/19/2007	7:15:00	13.7	373	7.67	0.10	1.1
4/19/2007	7:30:00	13.7	373	7.68	0.07	0.8
4/19/2007	7:45:00	13.7	373	7.67	0.08	0.9
4/19/2007	8:00:00	13.7	372	7.68	0.05	0.6
4/19/2007	8:15:00	13.7	372	7.68	0.09	1.1
4/19/2007	8:30:00	13.7	372	7.68	0.09	1.0
4/19/2007	8:45:00	13.7	372	7.67	0.05	0.6
4/19/2007	9:00:00	13.7	371	7.67	0.09	1.0
4/19/2007	9:15:00	13.7	371	7.67	0.09	1.0
4/19/2007	9:30:00	13.7	371	7.68	0.05	0.6
4/19/2007	9:45:00	13.7	371	7.68	0.05	0.6
4/19/2007	10:00:00	13.7	371	7.68	0.05	0.6
4/19/2007	10:15:00	13.7	370	7.68	0.06	0.7
4/19/2007	10:30:00	13.6	370	7.68	0.04	0.5
4/19/2007	10:45:00	13.6	383	7.65	0.09	1.1
4/19/2007	11:00:00	13.6	385	7.63	0.05	0.6

Table 5.35. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	Troll 9000 LTS	
Report generated:	7/31/2007	11:25:58
Report from file:	...\SN45476 2007-04-13 120000 SIte5_4_13_07.bin	
Win-Situ Version	4.55.3.0	
Serial number:	45476	
Firmware Version	1.58	
Unit name:	Apollo	
Barometric Pressure:		626.12
Test defined on:	2/14/1999	12:47:03
Test scheduled for:	4/13/2007	12:00:00
Test started on:	4/13/2007	12:00:00
Test stopped on:	7/16/2007	14:51:58
Data gathered using linear testing		
Time between data points		900 seconds
Number of data samples:		9036

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/17/2007	13:45:00	14.9	8.31	100.1
4/17/2007	14:00:00	15.0	8.33	100.7
4/17/2007	14:15:00	15.2	8.32	100.8
4/17/2007	14:30:00	15.3	8.30	100.9
4/17/2007	14:45:00	15.4	8.28	100.9
4/17/2007	15:00:00	15.6	8.26	101.1
4/17/2007	15:15:00	15.8	8.23	101.2
4/17/2007	15:30:00	16.0	8.20	101.2
4/17/2007	15:45:00	16.1	8.18	101.2
4/17/2007	16:00:00	16.2	8.16	101.1
4/17/2007	16:15:00	16.3	8.13	101.0
4/17/2007	16:30:00	16.4	8.11	101.0
4/17/2007	16:45:00	16.5	8.08	100.8
4/17/2007	17:00:00	16.6	8.06	100.7
4/17/2007	17:15:00	16.7	8.03	100.6
4/17/2007	17:30:00	16.8	8.00	100.5
4/17/2007	17:45:00	16.9	7.98	100.4
4/17/2007	18:00:00	16.9	7.96	100.1
4/17/2007	18:15:00	16.9	7.94	100.0
4/17/2007	18:30:00	17.0	7.92	99.7
4/17/2007	18:45:00	17.0	7.90	99.5
4/17/2007	19:00:00	16.9	7.88	99.3
4/17/2007	19:15:00	16.9	7.87	99.0
4/17/2007	19:30:00	16.9	7.85	98.8
4/17/2007	19:45:00	16.9	7.83	98.6
4/17/2007	20:00:00	16.9	7.82	98.3
4/17/2007	20:15:00	16.8	7.81	98.1
4/17/2007	20:30:00	16.8	7.81	97.9

Table 5.35. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/17/2007	20:45:00	16.7	7.80	97.8
4/17/2007	21:00:00	16.7	7.80	97.7
4/17/2007	21:15:00	16.7	7.81	97.8
4/17/2007	21:30:00	16.6	7.82	97.9
4/17/2007	21:45:00	16.6	7.84	98.0
4/17/2007	22:00:00	16.5	7.85	98.0
4/17/2007	22:15:00	16.5	7.85	97.9
4/17/2007	22:30:00	16.4	7.85	97.8
4/17/2007	22:45:00	16.4	7.85	97.7
4/17/2007	23:00:00	16.3	7.85	97.6
4/17/2007	23:15:00	16.3	7.86	97.5
4/17/2007	23:30:00	16.2	7.86	97.4
4/17/2007	23:45:00	16.1	7.87	97.3
4/18/2007	0:00:00	16.0	7.88	97.3
4/18/2007	0:15:00	15.9	7.89	97.2
4/18/2007	0:30:00	15.8	7.89	97.1
4/18/2007	0:45:00	15.8	7.90	97.1
4/18/2007	1:00:00	15.7	7.92	97.0
4/18/2007	1:15:00	15.6	7.93	97.0
4/18/2007	1:30:00	15.5	7.94	96.9
4/18/2007	1:45:00	15.4	7.96	96.9
4/18/2007	2:00:00	15.3	7.97	96.9
4/18/2007	2:15:00	15.2	7.98	96.8
4/18/2007	2:30:00	15.1	8.00	96.8
4/18/2007	2:45:00	15.0	8.01	96.8
4/18/2007	3:00:00	14.9	8.03	96.7
4/18/2007	3:15:00	14.8	8.04	96.7
4/18/2007	3:30:00	14.7	8.06	96.7
4/18/2007	3:45:00	14.6	8.08	96.7
4/18/2007	4:00:00	14.5	8.09	96.7
4/18/2007	4:15:00	14.4	8.11	96.7
4/18/2007	4:30:00	14.3	8.12	96.7
4/18/2007	4:45:00	14.2	8.14	96.6
4/18/2007	5:00:00	14.1	8.15	96.6
4/18/2007	5:15:00	14.1	8.17	96.6
4/18/2007	5:30:00	14.0	8.18	96.6
4/18/2007	5:45:00	13.9	8.19	96.6
4/18/2007	6:00:00	13.9	8.21	96.6
4/18/2007	6:15:00	13.8	8.22	96.6
4/18/2007	6:30:00	13.7	8.23	96.6
4/18/2007	6:45:00	13.6	8.24	96.6
4/18/2007	7:00:00	13.6	8.25	96.6
4/18/2007	7:15:00	13.5	8.27	96.6
4/18/2007	7:30:00	13.5	8.28	96.7
4/18/2007	7:45:00	13.4	8.29	96.8
4/18/2007	8:00:00	13.4	8.31	96.8

Table 5.35. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	8:15:00	13.4	8.32	96.9
4/18/2007	8:30:00	13.4	8.33	97.0
4/18/2007	8:45:00	13.4	8.34	97.2
4/18/2007	9:00:00	13.4	8.35	97.4
4/18/2007	9:15:00	13.4	8.36	97.5
4/18/2007	9:30:00	13.5	8.37	97.8
4/18/2007	9:45:00	13.6	8.37	98.0
4/18/2007	10:00:00	13.7	8.37	98.2
4/18/2007	10:15:00	13.8	8.38	98.4
4/18/2007	10:30:00	13.9	8.37	98.6
4/18/2007	10:45:00	14.0	8.37	98.8
4/18/2007	11:00:00	14.1	8.36	99.1
4/18/2007	11:15:00	14.3	8.35	99.3
4/18/2007	11:30:00	14.5	8.34	99.6
4/18/2007	11:45:00	14.6	8.33	99.8
4/18/2007	12:00:00	14.8	8.31	100.0
4/18/2007	12:15:00	15.0	8.30	100.3
4/18/2007	12:30:00	15.2	8.28	100.5
4/18/2007	12:45:00	15.4	8.26	100.7
4/18/2007	13:00:00	15.6	8.24	101.0
4/18/2007	13:15:00	15.8	8.22	101.1
4/18/2007	13:30:00	16.0	8.20	101.3
4/18/2007	13:45:00	16.2	8.18	101.4
4/18/2007	14:00:00	16.4	8.16	101.6
4/18/2007	14:15:00	16.6	8.14	101.7
4/18/2007	14:30:00	16.7	8.11	101.7
4/18/2007	14:45:00	16.9	8.09	101.8
4/18/2007	15:00:00	17.1	8.06	101.8
4/18/2007	15:15:00	17.2	8.04	101.8
4/18/2007	15:30:00	17.3	8.01	101.7
4/18/2007	15:45:00	17.5	7.98	101.6
4/18/2007	16:00:00	17.6	7.96	101.5
4/18/2007	16:15:00	17.7	7.94	101.5
4/18/2007	16:30:00	17.7	7.91	101.3
4/18/2007	16:45:00	17.8	7.89	101.2
4/18/2007	17:00:00	17.8	7.87	101.0
4/18/2007	17:15:00	17.9	7.85	100.8
4/18/2007	17:30:00	17.9	7.83	100.6
4/18/2007	17:45:00	18.0	7.81	100.5
4/18/2007	18:00:00	18.0	7.79	100.3
4/18/2007	18:15:00	18.0	7.77	100.2
4/18/2007	18:30:00	18.0	7.76	99.9
4/18/2007	18:45:00	18.0	7.75	99.7
4/18/2007	19:00:00	18.0	7.73	99.5
4/18/2007	19:15:00	17.9	7.71	99.2
4/18/2007	19:30:00	17.9	7.70	98.9

Table 5.35. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	19:45:00	17.8	7.69	98.7
4/18/2007	20:00:00	17.8	7.68	98.4
4/18/2007	20:15:00	17.7	7.66	98.1
4/18/2007	20:30:00	17.7	7.66	97.9
4/18/2007	20:45:00	17.6	7.65	97.6
4/18/2007	21:00:00	17.5	7.64	97.4
4/18/2007	21:15:00	17.4	7.64	97.2
4/18/2007	21:30:00	17.3	7.64	97.0
4/18/2007	21:45:00	17.3	7.64	96.9
4/18/2007	22:00:00	17.2	7.64	96.7
4/18/2007	22:15:00	17.1	7.64	96.5
4/18/2007	22:30:00	17.0	7.65	96.4
4/18/2007	22:45:00	16.9	7.65	96.3
4/18/2007	23:00:00	16.8	7.66	96.2
4/18/2007	23:15:00	16.7	7.67	96.1
4/18/2007	23:30:00	16.6	7.68	96.0
4/18/2007	23:45:00	16.5	7.69	96.0
4/19/2007	0:00:00	16.4	7.70	95.9
4/19/2007	0:15:00	16.4	7.71	95.9
4/19/2007	0:30:00	16.3	7.72	95.9
4/19/2007	0:45:00	16.2	7.73	95.9
4/19/2007	1:00:00	16.2	7.74	95.9
4/19/2007	1:15:00	16.1	7.75	95.9
4/19/2007	1:30:00	16.0	7.76	95.9
4/19/2007	1:45:00	16.0	7.78	95.9
4/19/2007	2:00:00	15.9	7.79	95.9
4/19/2007	2:15:00	15.8	7.80	95.8
4/19/2007	2:30:00	15.7	7.82	95.8
4/19/2007	2:45:00	15.6	7.83	95.8
4/19/2007	3:00:00	15.5	7.85	95.8
4/19/2007	3:15:00	15.4	7.87	95.8
4/19/2007	3:30:00	15.3	7.88	95.8
4/19/2007	3:45:00	15.2	7.90	95.8
4/19/2007	4:00:00	15.1	7.92	95.8
4/19/2007	4:15:00	15.0	7.93	95.7
4/19/2007	4:30:00	14.9	7.95	95.8
4/19/2007	4:45:00	14.8	7.97	95.8
4/19/2007	5:00:00	14.7	7.99	95.8
4/19/2007	5:15:00	14.6	8.00	95.8
4/19/2007	5:30:00	14.5	8.02	95.8
4/19/2007	5:45:00	14.4	8.04	95.8
4/19/2007	6:00:00	14.3	8.06	95.8
4/19/2007	6:15:00	14.1	8.07	95.7
4/19/2007	6:30:00	14.0	8.09	95.7
4/19/2007	6:45:00	13.9	8.11	95.7
4/19/2007	7:00:00	13.8	8.13	95.7

Table 5.35. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	7:15:00	13.7	8.15	95.7
4/19/2007	7:30:00	13.6	8.16	95.7
4/19/2007	7:45:00	13.5	8.18	95.6
4/19/2007	8:00:00	13.5	8.19	95.6
4/19/2007	8:15:00	13.4	8.20	95.6
4/19/2007	8:30:00	13.3	8.21	95.7
4/19/2007	8:45:00	13.3	8.23	95.8
4/19/2007	9:00:00	13.3	8.24	95.9
4/19/2007	9:15:00	13.4	8.25	96.1
4/19/2007	9:30:00	13.4	8.27	96.4
4/19/2007	9:45:00	13.4	8.28	96.6
4/19/2007	10:00:00	13.5	8.29	96.8
4/19/2007	10:15:00	13.6	8.30	97.1
4/19/2007	10:30:00	13.6	8.31	97.4
4/19/2007	10:45:00	13.8	8.31	97.7
4/19/2007	11:00:00	13.9	8.31	98.0
4/19/2007	11:15:00	14.0	8.31	98.2
4/19/2007	11:30:00	14.2	8.29	98.4
4/19/2007	11:45:00	14.4	8.26	98.4
4/19/2007	12:00:00	14.6	8.24	98.5
4/19/2007	12:15:00	14.7	8.21	98.5
4/19/2007	12:30:00	14.9	8.18	98.6
4/19/2007	12:45:00	15.1	8.16	98.7
4/19/2007	13:00:00	15.3	8.13	98.9
4/19/2007	13:15:00	15.5	8.11	99.1
4/19/2007	13:30:00	15.7	8.09	99.2
4/19/2007	13:45:00	15.9	8.06	99.4
4/19/2007	14:00:00	16.1	8.04	99.6
4/19/2007	14:15:00	16.3	8.02	99.7
4/19/2007	14:30:00	16.5	8.00	99.9
4/19/2007	14:45:00	16.7	7.97	100.0
4/19/2007	15:00:00	16.9	7.95	100.0
4/19/2007	15:15:00	17.1	7.92	100.0
4/19/2007	15:30:00	17.2	7.89	100.0
4/19/2007	15:45:00	17.4	7.87	100.0
4/19/2007	16:00:00	17.6	7.84	100.0
4/19/2007	16:15:00	17.7	7.81	99.9
4/19/2007	16:30:00	17.8	7.78	99.8
4/19/2007	16:45:00	17.9	7.75	99.7
4/19/2007	17:00:00	18.0	7.73	99.5
4/19/2007	17:15:00	18.1	7.70	99.3
4/19/2007	17:30:00	18.2	7.68	99.2
4/19/2007	17:45:00	18.2	7.65	98.9
4/19/2007	18:00:00	18.3	7.63	98.7
4/19/2007	18:15:00	18.3	7.60	98.5
4/19/2007	18:30:00	18.3	7.58	98.2

Table 5.35. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	18:45:00	18.3	7.56	97.9
4/19/2007	19:00:00	18.2	7.54	97.6
4/19/2007	19:15:00	18.2	7.51	97.1
4/19/2007	19:30:00	18.2	7.50	96.9
4/19/2007	19:45:00	18.1	7.48	96.6
4/19/2007	20:00:00	18.1	7.46	96.3
4/19/2007	20:15:00	18.1	7.45	96.1
4/19/2007	20:30:00	18.0	7.43	95.8
4/19/2007	20:45:00	18.0	7.43	95.6
4/19/2007	21:00:00	17.9	7.43	95.5
4/19/2007	21:15:00	17.8	7.45	95.6
4/19/2007	21:30:00	17.8	7.47	95.8
4/19/2007	21:45:00	17.7	7.49	95.9
4/19/2007	22:00:00	17.7	7.49	95.8
4/19/2007	22:15:00	17.6	7.50	95.8
4/19/2007	22:30:00	17.6	7.51	95.8
4/19/2007	22:45:00	17.5	7.52	95.8
4/19/2007	23:00:00	17.4	7.54	95.8
4/19/2007	23:15:00	17.3	7.55	95.7
4/19/2007	23:30:00	17.2	7.56	95.7
4/19/2007	23:45:00	17.1	7.56	95.6
4/20/2007	0:00:00	17.0	7.57	95.5
4/20/2007	0:15:00	16.9	7.58	95.4
4/20/2007	0:30:00	16.8	7.59	95.4
4/20/2007	0:45:00	16.7	7.61	95.3
4/20/2007	1:00:00	16.6	7.62	95.3
4/20/2007	1:15:00	16.5	7.64	95.3
4/20/2007	1:30:00	16.4	7.65	95.3
4/20/2007	1:45:00	16.3	7.67	95.2
4/20/2007	2:00:00	16.2	7.68	95.1
4/20/2007	2:15:00	16.0	7.70	95.1
4/20/2007	2:30:00	15.9	7.72	95.1
4/20/2007	2:45:00	15.8	7.73	95.0
4/20/2007	3:00:00	15.7	7.75	95.0
4/20/2007	3:15:00	15.6	7.77	95.0
4/20/2007	3:30:00	15.4	7.79	95.0
4/20/2007	3:45:00	15.3	7.81	95.0
4/20/2007	4:00:00	15.2	7.83	95.0
4/20/2007	4:15:00	15.1	7.85	95.0
4/20/2007	4:30:00	15.0	7.87	95.0
4/20/2007	4:45:00	14.8	7.89	95.0
4/20/2007	5:00:00	14.7	7.91	95.0
4/20/2007	5:15:00	14.6	7.94	95.0
4/20/2007	5:30:00	14.5	7.96	95.0
4/20/2007	5:45:00	14.3	7.98	95.1
4/20/2007	6:00:00	14.2	8.01	95.1

Table 5.35. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/20/2007	6:15:00	14.1	8.03	95.1
4/20/2007	6:30:00	14.0	8.05	95.1
4/20/2007	6:45:00	13.9	8.07	95.1
4/20/2007	7:00:00	13.8	8.10	95.1
4/20/2007	7:15:00	13.7	8.11	95.2
4/20/2007	7:30:00	13.6	8.13	95.1
4/20/2007	7:45:00	13.5	8.15	95.2
4/20/2007	8:00:00	13.5	8.16	95.2
4/20/2007	8:15:00	13.4	8.18	95.3
4/20/2007	8:30:00	13.3	8.19	95.3
4/20/2007	8:45:00	13.4	8.20	95.6
4/20/2007	9:00:00	13.2	8.21	95.4
4/20/2007	9:15:00	13.4	8.22	95.9
4/20/2007	9:30:00	13.4	8.23	96.0
4/20/2007	9:45:00	13.6	8.24	96.5
4/20/2007	10:00:00	13.8	8.25	97.0
4/20/2007	10:15:00	14.0	8.27	97.8

Table 5.36. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**		
Log	**File**	**Name**	**:**	**Site5_Lajoya_4_13_07**		
Setup	**Date**	**(MMDDYY)**	**:**	**4/12/2007**		
Setup	**Time**	**(HHMMSS)**	**:**	**192758**		
Starting	**Date**	**(MMDDYY)**	**:**	**4/13/2007**		
Starting	**Time**	**(HHMMSS)**	**:**	**120000**		
Stopping	**Date**	**(MMDDYY)**	**:**	**4/20/2007**		
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**		
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**		
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**		
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**		

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
4/17/2007	14:15:00	15.0	278	8.14	7.69	92.4
4/17/2007	14:30:00	15.1	258	8.14	7.77	93.5
4/17/2007	14:45:00	15.3	248	8.14	7.67	92.7
4/17/2007	15:00:00	15.5	239	8.14	7.57	91.8
4/17/2007	15:15:00	15.7	236	8.14	7.60	92.6
4/17/2007	15:30:00	15.8	234	8.14	7.63	93.4
4/17/2007	15:45:00	15.9	233	8.14	7.65	93.8
4/17/2007	16:00:00	16.0	233	8.14	7.65	93.9
4/17/2007	16:15:00	16.1	232	8.14	7.42	91.4
4/17/2007	16:30:00	16.2	232	8.14	7.61	93.8
4/17/2007	16:45:00	16.3	231	8.14	7.44	92.0
4/17/2007	17:00:00	16.4	230	8.14	7.34	90.9
4/17/2007	17:15:00	16.5	226	8.14	7.28	90.4
4/17/2007	17:30:00	16.6	226	8.14	7.34	91.4
4/17/2007	17:45:00	16.7	225	8.14	7.40	92.3
4/17/2007	18:00:00	16.7	223	8.13	7.45	93.0
4/17/2007	18:15:00	16.8	228	8.13	7.42	92.6
4/17/2007	18:30:00	16.8	228	8.14	7.48	93.3
4/17/2007	18:45:00	16.8	228	8.14	7.26	90.7
4/17/2007	19:00:00	16.8	227	8.14	7.30	91.1
4/17/2007	19:15:00	16.7	225	8.14	7.17	89.4
4/17/2007	19:30:00	16.7	223	8.14	7.21	90.0
4/17/2007	19:45:00	16.7	222	8.14	7.35	91.6
4/17/2007	20:00:00	16.7	221	8.14	7.26	90.5
4/17/2007	20:15:00	16.6	220	8.14	7.26	90.4
4/17/2007	20:30:00	16.6	218	8.14	7.35	91.4
4/17/2007	20:45:00	16.6	216	8.14	7.14	88.7
4/17/2007	21:00:00	16.5	214	8.14	7.23	89.7
4/17/2007	21:15:00	16.5	214	8.14	7.21	89.5
4/17/2007	21:30:00	16.5	214	8.15	6.94	86.1
4/17/2007	21:45:00	16.4	214	8.15	7.25	89.8
4/17/2007	22:00:00	16.4	213	8.14	7.18	88.9
4/17/2007	22:15:00	16.3	213	8.14	7.26	89.8

Table 5.36. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/17/2007	22:30:00	16.3	213	8.14	7.29	90.0
4/17/2007	22:45:00	16.2	212	8.14	7.17	88.4
4/17/2007	23:00:00	16.1	212	8.15	7.21	88.8
4/17/2007	23:15:00	16.1	212	8.15	7.34	90.3
4/17/2007	23:30:00	16.0	212	8.14	7.35	90.3
4/17/2007	23:45:00	15.9	211	8.14	7.28	89.3
4/18/2007	0:00:00	15.8	211	8.14	7.17	87.7
4/18/2007	0:15:00	15.8	211	8.14	7.24	88.4
4/18/2007	0:30:00	15.7	210	8.14	7.33	89.4
4/18/2007	0:45:00	15.6	210	8.14	7.22	87.9
4/18/2007	1:00:00	15.5	210	8.15	7.21	87.6
4/18/2007	1:15:00	15.4	210	8.15	7.29	88.4
4/18/2007	1:30:00	15.3	210	8.15	7.26	87.8
4/18/2007	1:45:00	15.2	209	8.15	7.52	90.8
4/18/2007	2:00:00	15.1	209	8.15	7.60	91.6
4/18/2007	2:15:00	15.0	209	8.14	7.59	91.3
4/18/2007	2:30:00	14.9	208	8.14	7.57	90.8
4/18/2007	2:45:00	14.8	208	8.14	7.53	90.2
4/18/2007	3:00:00	14.7	208	8.15	7.51	89.8
4/18/2007	3:15:00	14.6	208	8.15	7.57	90.2
4/18/2007	3:30:00	14.5	208	8.15	7.68	91.4
4/18/2007	3:45:00	14.4	207	8.14	7.66	90.9
4/18/2007	4:00:00	14.3	207	8.14	7.64	90.5
4/18/2007	4:15:00	14.2	207	8.14	7.71	91.1
4/18/2007	4:30:00	14.1	207	8.14	7.71	91.0
4/18/2007	4:45:00	14.1	206	8.14	7.65	90.0
4/18/2007	5:00:00	14.0	206	8.14	7.65	89.9
4/18/2007	5:15:00	13.9	206	8.15	7.66	89.8
4/18/2007	5:30:00	13.8	206	8.15	7.63	89.3
4/18/2007	5:45:00	13.8	205	8.15	7.72	90.3
4/18/2007	6:00:00	13.7	205	8.15	7.65	89.4
4/18/2007	6:15:00	13.6	205	8.15	7.80	90.9
4/18/2007	6:30:00	13.5	205	8.15	7.75	90.3
4/18/2007	6:45:00	13.5	205	8.14	7.87	91.5
4/18/2007	7:00:00	13.4	205	8.14	7.85	91.1
4/18/2007	7:15:00	13.4	205	8.14	7.92	91.8
4/18/2007	7:30:00	13.3	205	8.14	7.89	91.3
4/18/2007	7:45:00	13.3	205	8.14	7.93	91.8
4/18/2007	8:00:00	13.2	205	8.14	7.79	90.0
4/18/2007	8:15:00	13.2	205	8.14	7.94	91.8
4/18/2007	8:30:00	13.2	204	8.14	7.96	92.0
4/18/2007	8:45:00	13.2	374	8.16	7.69	89.0
4/18/2007	9:00:00	13.2	374	8.16	7.65	88.5
4/18/2007	9:15:00	13.3	374	8.16	7.73	89.5
4/18/2007	9:30:00	13.3	374	8.16	7.66	88.8
4/18/2007	9:45:00	13.4	374	8.16	7.69	89.3

Table 5.36. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	10:00:00	13.5	374	8.15	7.53	87.6
4/18/2007	10:15:00	13.6	374	8.16	7.60	88.6
4/18/2007	10:30:00	13.7	375	8.16	7.63	89.2
4/18/2007	10:45:00	13.8	375	8.15	7.65	89.6
4/18/2007	11:00:00	14.0	376	8.15	7.61	89.5
4/18/2007	11:15:00	14.1	376	8.15	7.66	90.4
4/18/2007	11:30:00	14.3	376	8.15	7.55	89.4
4/18/2007	11:45:00	14.5	376	8.15	7.52	89.4
4/18/2007	12:00:00	14.7	376	8.15	7.62	90.9
4/18/2007	12:15:00	14.9	376	8.14	7.58	90.8
4/18/2007	12:30:00	15.1	375	8.15	7.49	90.2
4/18/2007	12:45:00	15.3	375	8.15	7.55	91.3
4/18/2007	13:00:00	15.5	375	8.14	7.44	90.4
4/18/2007	13:15:00	15.7	374	8.14	7.51	91.7
4/18/2007	13:30:00	15.8	375	8.15	7.43	91.0
4/18/2007	13:45:00	16.0	376	8.15	7.39	90.8
4/18/2007	14:00:00	16.2	375	8.15	7.40	91.3
4/18/2007	14:15:00	16.4	375	8.14	7.40	91.6
4/18/2007	14:30:00	16.6	376	8.15	7.36	91.5
4/18/2007	14:45:00	16.7	376	8.15	7.41	92.4
4/18/2007	15:00:00	16.9	376	8.14	7.36	92.1
4/18/2007	15:15:00	17.0	377	8.14	7.33	92.0
4/18/2007	15:30:00	17.2	377	8.15	7.35	92.6
4/18/2007	15:45:00	17.3	377	8.15	7.29	92.0
4/18/2007	16:00:00	17.4	378	8.15	7.29	92.1
4/18/2007	16:15:00	17.5	377	8.16	7.23	91.6
4/18/2007	16:30:00	17.6	378	8.16	7.19	91.3
4/18/2007	16:45:00	17.6	377	8.16	7.12	90.5
4/18/2007	17:00:00	17.7	377	8.16	6.98	88.8
4/18/2007	17:15:00	17.7	377	8.17	7.00	89.1
4/18/2007	17:30:00	17.7	377	8.17	7.15	91.1
4/18/2007	17:45:00	17.8	376	8.16	7.10	90.6
4/18/2007	18:00:00	17.8	376	8.16	6.98	89.1
4/18/2007	18:15:00	17.8	376	8.17	6.98	89.1
4/18/2007	18:30:00	17.8	376	8.17	6.92	88.3
4/18/2007	18:45:00	17.8	376	8.16	6.93	88.4
4/18/2007	19:00:00	17.8	376	8.16	6.82	87.0
4/18/2007	19:15:00	17.8	376	8.17	6.84	87.2
4/18/2007	19:30:00	17.7	376	8.17	6.89	87.7
4/18/2007	19:45:00	17.6	376	8.17	6.96	88.5
4/18/2007	20:00:00	17.6	376	8.17	6.92	87.9
4/18/2007	20:15:00	17.6	376	8.17	6.86	87.1
4/18/2007	20:30:00	17.5	377	8.18	6.82	86.4
4/18/2007	20:45:00	17.4	376	8.18	6.82	86.3
4/18/2007	21:00:00	17.3	377	8.19	6.85	86.5
4/18/2007	21:15:00	17.2	377	8.19	6.82	86.0

Table 5.36. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	21:30:00	17.2	377	8.18	6.77	85.2
4/18/2007	21:45:00	17.1	377	8.18	6.74	84.7
4/18/2007	22:00:00	17.0	377	8.18	6.76	84.8
4/18/2007	22:15:00	16.9	376	8.18	6.74	84.4
4/18/2007	22:30:00	16.8	376	8.18	6.86	85.8
4/18/2007	22:45:00	16.7	376	8.18	6.88	85.8
4/18/2007	23:00:00	16.6	376	8.18	6.78	84.4
4/18/2007	23:15:00	16.5	376	8.19	6.84	84.9
4/18/2007	23:30:00	16.4	376	8.18	6.91	85.6
4/18/2007	23:45:00	16.3	375	8.18	6.86	84.8
4/19/2007	0:00:00	16.3	375	8.18	6.81	84.2
4/19/2007	0:15:00	16.2	375	8.18	6.82	84.2
4/19/2007	0:30:00	16.1	375	8.19	6.88	84.8
4/19/2007	0:45:00	16.1	374	8.19	6.91	85.0
4/19/2007	1:00:00	16.0	374	8.18	6.93	85.2
4/19/2007	1:15:00	15.9	374	8.18	6.85	84.1
4/19/2007	1:30:00	15.9	374	8.18	6.93	84.9
4/19/2007	1:45:00	15.8	374	8.19	6.90	84.4
4/19/2007	2:00:00	15.7	374	8.18	6.99	85.4
4/19/2007	2:15:00	15.6	374	8.18	6.97	84.9
4/19/2007	2:30:00	15.5	374	8.18	6.96	84.6
4/19/2007	2:45:00	15.4	374	8.18	6.87	83.3
4/19/2007	3:00:00	15.3	374	8.18	6.98	84.5
4/19/2007	3:15:00	15.2	375	8.18	7.01	84.7
4/19/2007	3:30:00	15.1	375	8.18	7.01	84.4
4/19/2007	3:45:00	15.0	375	8.18	7.10	85.4
4/19/2007	4:00:00	14.9	375	8.18	7.05	84.5
4/19/2007	4:15:00	14.8	375	8.18	7.14	85.5
4/19/2007	4:30:00	14.7	375	8.18	7.12	85.1
4/19/2007	4:45:00	14.6	374	8.18	7.02	83.7
4/19/2007	5:00:00	14.5	374	8.18	7.19	85.6
4/19/2007	5:15:00	14.4	374	8.18	7.29	86.6
4/19/2007	5:30:00	14.3	375	8.18	7.31	86.6
4/19/2007	5:45:00	14.2	375	8.18	7.30	86.2
4/19/2007	6:00:00	14.1	374	8.18	7.21	85.1
4/19/2007	6:15:00	14.0	374	8.17	7.29	85.7
4/19/2007	6:30:00	13.9	375	8.18	7.36	86.4
4/19/2007	6:45:00	13.8	374	8.17	7.44	87.2
4/19/2007	7:00:00	13.7	374	8.18	7.42	86.7
4/19/2007	7:15:00	13.6	375	8.18	7.45	86.8
4/19/2007	7:30:00	13.5	375	8.17	7.44	86.6
4/19/2007	7:45:00	13.4	375	8.18	7.41	86.1
4/19/2007	8:00:00	13.3	375	8.18	7.47	86.5
4/19/2007	8:15:00	13.2	374	8.17	7.36	85.1
4/19/2007	8:30:00	13.2	373	8.17	7.34	84.9
4/19/2007	8:45:00	13.2	373	8.17	7.49	86.6

Table 5.36. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	9:00:00	13.2	373	8.17	7.58	87.6
4/19/2007	9:15:00	13.2	372	8.17	7.40	85.5
4/19/2007	9:30:00	13.2	371	8.17	7.54	87.3
4/19/2007	9:45:00	13.3	371	8.17	7.61	88.2
4/19/2007	10:00:00	13.3	371	8.17	7.39	85.6
4/19/2007	10:15:00	13.4	371	8.17	7.44	86.4
4/19/2007	10:30:00	13.5	370	8.17	7.55	87.8
4/19/2007	10:45:00	13.6	370	8.17	7.56	88.2
4/19/2007	11:00:00	13.7	370	8.17	7.40	86.6
4/19/2007	11:15:00	13.9	370	8.17	7.46	87.5
4/19/2007	11:30:00	14.0	371	8.16	7.50	88.3
4/19/2007	11:45:00	14.2	371	8.16	7.50	88.6
4/19/2007	12:00:00	14.4	371	8.16	7.49	88.9
4/19/2007	12:15:00	14.5	372	8.16	7.38	87.9
4/19/2007	12:30:00	14.7	372	8.16	7.29	87.2
4/19/2007	12:45:00	14.9	373	8.16	7.29	87.5
4/19/2007	13:00:00	15.1	373	8.16	7.33	88.4
4/19/2007	13:15:00	15.3	373	8.16	7.35	89.1
4/19/2007	13:30:00	15.5	373	8.15	7.29	88.7
4/19/2007	13:45:00	15.8	373	8.15	7.17	87.6
4/19/2007	14:00:00	16.0	373	8.15	7.06	86.6
4/19/2007	14:15:00	16.1	373	8.15	7.19	88.7
4/19/2007	14:30:00	16.3	373	8.15	7.23	89.5
4/19/2007	14:45:00	16.5	374	8.14	7.08	87.9
4/19/2007	15:00:00	16.7	374	8.14	7.11	88.7
4/19/2007	15:15:00	16.9	374	8.14	7.06	88.4
4/19/2007	15:30:00	17.1	375	8.14	6.89	86.6
4/19/2007	15:45:00	17.2	375	8.14	7.06	89.0
4/19/2007	16:00:00	17.4	376	8.14	7.05	89.2
4/19/2007	16:15:00	17.5	376	8.14	6.99	88.6
4/19/2007	16:30:00	17.6	376	8.14	6.87	87.4
4/19/2007	16:45:00	17.7	376	8.14	6.90	88.0
4/19/2007	17:00:00	17.8	376	8.14	6.87	87.7
4/19/2007	17:15:00	17.9	376	8.14	6.80	86.9
4/19/2007	17:30:00	18.0	377	8.14	6.81	87.2
4/19/2007	17:45:00	18.0	377	8.14	6.71	86.0
4/19/2007	18:00:00	18.1	377	8.14	6.80	87.2
4/19/2007	18:15:00	18.1	376	8.13	6.66	85.5
4/19/2007	18:30:00	18.1	376	8.14	6.76	86.7
4/19/2007	18:45:00	18.1	376	8.14	6.67	85.7
4/19/2007	19:00:00	18.1	375	8.13	6.60	84.6
4/19/2007	19:15:00	18.0	375	8.13	6.56	84.0
4/19/2007	19:30:00	18.0	374	8.14	6.68	85.6
4/19/2007	19:45:00	18.0	373	8.13	6.65	85.2
4/19/2007	20:00:00	17.9	373	8.14	6.45	82.5
4/19/2007	20:15:00	17.9	373	8.14	6.62	84.7

Table 5.36. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	20:30:00	17.9	373	8.14	6.57	83.9
4/19/2007	20:45:00	17.8	372	8.14	6.65	84.8
4/19/2007	21:00:00	17.7	371	8.14	6.60	84.1
4/19/2007	21:15:00	17.7	371	8.14	6.58	83.7
4/19/2007	21:30:00	17.6	370	8.14	6.48	82.3
4/19/2007	21:45:00	17.6	369	8.14	6.54	83.1
4/19/2007	22:00:00	17.5	370	8.14	6.49	82.3
4/19/2007	22:15:00	17.5	369	8.14	6.45	81.7
4/19/2007	22:30:00	17.4	369	8.14	6.41	81.1
4/19/2007	22:45:00	17.3	368	8.14	6.49	81.9
4/19/2007	23:00:00	17.2	367	8.14	6.50	81.9
4/19/2007	23:15:00	17.1	367	8.14	6.62	83.3
4/19/2007	23:30:00	17.0	367	8.14	6.61	83.0
4/19/2007	23:45:00	16.9	367	8.14	6.56	82.2
4/20/2007	0:00:00	16.9	366	8.14	6.58	82.3
4/20/2007	0:15:00	16.8	366	8.14	6.51	81.2
4/20/2007	0:30:00	16.7	366	8.14	6.50	80.9
4/20/2007	0:45:00	16.5	366	8.14	6.68	83.0
4/20/2007	1:00:00	16.4	366	8.14	6.53	81.0
4/20/2007	1:15:00	16.3	366	8.14	6.47	80.1
4/20/2007	1:30:00	16.2	365	8.14	6.66	82.2
4/20/2007	1:45:00	16.1	366	8.14	6.53	80.4
4/20/2007	2:00:00	16.0	365	8.14	6.53	80.2
4/20/2007	2:15:00	15.9	365	8.15	6.75	82.7
4/20/2007	2:30:00	15.7	365	8.14	6.66	81.3
4/20/2007	2:45:00	15.6	365	8.14	6.82	83.1
4/20/2007	3:00:00	15.5	365	8.14	6.75	82.1
4/20/2007	3:15:00	15.4	364	8.14	6.79	82.3
4/20/2007	3:30:00	15.3	364	8.14	6.71	81.2
4/20/2007	3:45:00	15.2	364	8.14	6.77	81.7
4/20/2007	4:00:00	15.0	364	8.14	6.68	80.4
4/20/2007	4:15:00	14.9	364	8.14	6.84	82.1
4/20/2007	4:30:00	14.8	363	8.14	6.80	81.4
4/20/2007	4:45:00	14.7	363	8.14	6.80	81.2
4/20/2007	5:00:00	14.6	364	8.14	6.95	82.7
4/20/2007	5:15:00	14.4	363	8.14	7.01	83.3
4/20/2007	5:30:00	14.3	363	8.14	7.01	83.1
4/20/2007	5:45:00	14.2	363	8.14	7.01	82.8
4/20/2007	6:00:00	14.1	363	8.14	7.12	83.9
4/20/2007	6:15:00	13.9	364	8.14	7.18	84.3
4/20/2007	6:30:00	13.8	364	8.14	7.00	82.0
4/20/2007	6:45:00	13.7	364	8.14	7.22	84.4
4/20/2007	7:00:00	13.6	364	8.14	7.10	82.9
4/20/2007	7:15:00	13.5	364	8.14	7.24	84.3
4/20/2007	7:30:00	13.4	364	8.14	7.21	83.8
4/20/2007	7:45:00	13.4	365	8.14	7.10	82.3

Table 5.36. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/20/2007	8:00:00	13.3	365	8.14	7.16	83.0
4/20/2007	8:15:00	13.3	365	8.14	7.11	82.3
4/20/2007	8:30:00	13.3	365	8.14	7.09	82.1
4/20/2007	8:45:00	13.3	365	8.14	7.30	84.5
4/20/2007	9:00:00	13.3	365	8.14	7.27	84.2
4/20/2007	9:15:00	13.4	366	8.14	7.25	84.1
4/20/2007	9:30:00	13.4	366	8.14	7.41	86.1
4/20/2007	9:45:00	13.5	366	8.14	7.13	83.1
4/20/2007	10:00:00	13.7	366	8.14	7.47	87.2

Table 5.37. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	**Troll 9000 LTS**	
Report generated:	**7/31/2007**	**11:19:04**
Report from file:	**...\SN45473 2007-04-13 100000 Site6_4_13_07.bin**	
Win-Situ Version	**4.55.3.0**	
Serial number:	**45473**	
Firmware Version	**1.58**	
Unit name:	**Nike**	
Barometric Pressure:		**626.656**
Test defined on:	**4/13/2007**	**6:51:35**
Test scheduled for:	**4/13/2007**	**10:00:00**
Test started on:	**4/13/2007**	**10:00:00**
Test stopped on:	**4/20/2007**	**8:45:00 AM**
Data gathered using linear testing		
Time between data points	900 seconds	
Number of data samples:	1352	

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/17/2007	8:30:00	10.7	9.00	98.6
4/17/2007	8:45:00	10.8	8.99	98.6
4/17/2007	9:00:00	10.8	9.00	98.7
4/17/2007	9:15:00	10.8	9.04	99.3
4/17/2007	9:30:00	11.0	9.05	99.8
4/17/2007	9:45:00	11.2	9.04	100.0
4/17/2007	10:00:00	11.4	9.03	100.5
4/17/2007	10:15:00	11.6	9.02	100.9
4/17/2007	10:30:00	11.9	9.02	101.5
4/17/2007	10:45:00	12.1	9.00	101.9
4/17/2007	11:00:00	12.4	9.01	102.7
4/17/2007	11:15:00	12.7	9.01	103.3
4/17/2007	11:30:00	13.0	8.96	103.4
4/17/2007	11:45:00	13.3	8.94	103.9
4/17/2007	12:00:00	13.6	8.92	104.3
4/17/2007	12:15:00	13.9	8.89	104.6
4/17/2007	12:30:00	14.2	8.85	104.9
4/17/2007	12:45:00	14.5	8.82	105.2
4/17/2007	13:00:00	14.8	8.78	105.4
4/17/2007	13:15:00	14.8	8.75	105.0
4/17/2007	13:30:00	14.9	8.71	104.8
4/17/2007	13:45:00	15.1	8.67	104.9
4/17/2007	14:00:00	15.4	8.69	105.8
4/17/2007	14:15:00	15.7	8.67	106.1
4/17/2007	14:30:00	15.9	8.58	105.5
4/17/2007	14:45:00	16.7	8.42	105.4
4/17/2007	15:00:00	16.9	8.38	105.4
4/17/2007	15:15:00	17.1	8.33	105.2

Table 5.37. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/17/2007	15:30:00	17.3	8.30	105.2
4/17/2007	15:45:00	17.4	8.25	104.8
4/17/2007	16:00:00	17.6	8.19	104.5
4/17/2007	16:15:00	17.7	8.15	104.3
4/17/2007	16:30:00	17.8	8.12	104.0
4/17/2007	16:45:00	17.8	8.10	103.7
4/17/2007	17:00:00	17.8	8.08	103.5
4/17/2007	17:15:00	17.8	8.06	103.2
4/17/2007	17:30:00	17.8	8.04	102.9
4/17/2007	17:45:00	17.8	8.02	102.6
4/17/2007	18:00:00	17.8	8.00	102.4
4/17/2007	18:15:00	17.7	7.97	101.9
4/17/2007	18:30:00	17.7	7.95	101.5
4/17/2007	18:45:00	17.6	7.92	101.0
4/17/2007	19:00:00	17.5	7.90	100.6
4/17/2007	19:15:00	17.5	7.89	100.3
4/17/2007	19:30:00	17.4	7.88	100.1
4/17/2007	19:45:00	17.3	7.87	99.8
4/17/2007	20:00:00	17.2	7.86	99.5
4/17/2007	20:15:00	17.2	7.84	99.0
4/17/2007	20:30:00	17.1	7.82	98.6
4/17/2007	20:45:00	16.9	7.80	98.2
4/17/2007	21:00:00	16.9	7.81	98.1
4/17/2007	21:15:00	16.8	7.80	97.8
4/17/2007	21:30:00	16.7	7.80	97.5
4/17/2007	21:45:00	16.5	7.78	97.1
4/17/2007	22:00:00	16.4	7.78	96.8
4/17/2007	22:15:00	16.3	7.78	96.6
4/17/2007	22:30:00	16.2	7.77	96.3
4/17/2007	22:45:00	16.1	7.76	95.9
4/17/2007	23:00:00	16.0	7.76	95.7
4/17/2007	23:15:00	15.9	7.76	95.5
4/17/2007	23:30:00	15.8	7.77	95.4
4/17/2007	23:45:00	15.7	7.78	95.3
4/18/2007	0:00:00	15.6	7.77	95.0
4/18/2007	0:15:00	15.5	7.78	94.9
4/18/2007	0:30:00	15.4	7.78	94.8
4/18/2007	0:45:00	15.4	7.79	94.7
4/18/2007	1:00:00	15.3	7.78	94.5
4/18/2007	1:15:00	15.2	7.78	94.3
4/18/2007	1:30:00	15.1	7.78	94.2
4/18/2007	1:45:00	15.1	7.78	94.0
4/18/2007	2:00:00	15.0	7.77	93.8
4/18/2007	2:15:00	14.9	7.77	93.6
4/18/2007	2:30:00	14.9	7.77	93.5
4/18/2007	2:45:00	14.8	7.76	93.3

Table 5.37. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	3:00:00	14.7	7.76	93.1
4/18/2007	3:15:00	14.6	7.76	92.9
4/18/2007	3:30:00	14.6	7.76	92.8
4/18/2007	3:45:00	14.5	7.75	92.6
4/18/2007	4:00:00	14.4	7.75	92.3
4/18/2007	4:15:00	14.4	7.74	92.1
4/18/2007	4:30:00	14.3	7.73	91.9
4/18/2007	4:45:00	14.2	7.73	91.6
4/18/2007	5:00:00	14.1	7.73	91.5
4/18/2007	5:15:00	14.0	7.73	91.3
4/18/2007	5:30:00	14.0	7.73	91.1
4/18/2007	5:45:00	13.9	7.72	90.9
4/18/2007	6:00:00	13.8	7.72	90.7
4/18/2007	6:15:00	13.7	7.72	90.6
4/18/2007	6:30:00	13.7	7.72	90.4
4/18/2007	6:45:00	13.6	7.72	90.3
4/18/2007	7:00:00	13.5	7.71	90.1
4/18/2007	7:15:00	13.4	7.71	89.9
4/18/2007	7:30:00	13.4	7.71	89.7
4/18/2007	7:45:00	13.3	7.71	89.6
4/18/2007	8:00:00	13.2	7.70	89.4
4/18/2007	8:15:00	13.2	7.70	89.2
4/18/2007	8:30:00	13.1	7.69	89.0
4/18/2007	8:45:00	13.0	7.69	88.9
4/18/2007	9:00:00	13.0	7.69	88.7
4/18/2007	9:15:00	12.9	7.69	88.6
4/18/2007	9:30:00	12.9	7.68	88.5
4/18/2007	9:45:00	12.9	7.68	88.4
4/18/2007	10:00:00	12.8	7.68	88.3
4/18/2007	10:15:00	12.8	7.68	88.3
4/18/2007	10:30:00	12.8	7.68	88.3
4/18/2007	10:45:00	12.9	7.68	88.4
4/18/2007	11:00:00	12.9	7.66	88.3
4/18/2007	11:15:00	13.0	7.64	88.2
4/18/2007	11:30:00	13.1	7.63	88.2
4/18/2007	11:45:00	13.2	7.61	88.3
4/18/2007	12:00:00	13.6	7.54	88.2
4/18/2007	12:15:00	14.5	7.47	89.1
4/18/2007	12:30:00	15.0	7.51	90.7
4/18/2007	12:45:00	15.6	7.57	92.6
4/18/2007	13:00:00	16.0	7.62	94.0
4/18/2007	13:15:00	16.3	7.64	94.9
4/18/2007	13:30:00	16.6	7.64	95.5
4/18/2007	13:45:00	16.9	7.62	95.8
4/18/2007	14:00:00	17.2	7.60	96.2
4/18/2007	14:15:00	17.5	7.59	96.6

Table 5.37. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	14:30:00	17.8	7.58	97.0
4/18/2007	14:45:00	18.0	7.55	97.1
4/18/2007	15:00:00	18.2	7.52	97.2
4/18/2007	15:15:00	18.4	7.48	97.1
4/18/2007	15:30:00	18.6	7.44	96.9
4/18/2007	15:45:00	18.8	7.40	96.7
4/18/2007	16:00:00	18.9	7.36	96.4
4/18/2007	16:15:00	19.0	7.32	96.2
4/18/2007	16:30:00	19.1	7.30	96.0
4/18/2007	16:45:00	19.1	7.26	95.6
4/18/2007	17:00:00	19.1	7.23	95.2
4/18/2007	17:15:00	19.1	7.19	94.7
4/18/2007	17:30:00	19.1	7.15	94.0
4/18/2007	17:45:00	19.1	7.11	93.4
4/18/2007	18:00:00	19.0	7.07	92.9
4/18/2007	18:15:00	18.9	7.04	92.3
4/18/2007	18:30:00	18.7	7.02	91.7
4/18/2007	18:45:00	18.6	7.01	91.3
4/18/2007	19:00:00	18.5	7.00	91.1
4/18/2007	19:15:00	18.4	7.00	90.9
4/18/2007	19:30:00	18.2	7.01	90.6
4/18/2007	19:45:00	18.0	7.01	90.2
4/18/2007	20:00:00	17.8	7.01	89.8
4/18/2007	20:15:00	17.6	7.02	89.5
4/18/2007	20:30:00	17.5	7.02	89.4
4/18/2007	20:45:00	17.4	7.04	89.3
4/18/2007	21:00:00	17.2	7.06	89.3
4/18/2007	21:15:00	17.1	7.08	89.4
4/18/2007	21:30:00	17.0	7.11	89.6
4/18/2007	21:45:00	16.9	7.14	89.8
4/18/2007	22:00:00	16.8	7.16	89.8
4/18/2007	22:15:00	16.7	7.17	89.7
4/18/2007	22:30:00	16.6	7.18	89.6
4/18/2007	22:45:00	16.5	7.19	89.5
4/18/2007	23:00:00	16.3	7.19	89.4
4/18/2007	23:15:00	16.2	7.20	89.2
4/18/2007	23:30:00	16.1	7.20	89.0
4/18/2007	23:45:00	16.0	7.21	89.0
4/19/2007	0:00:00	15.9	7.23	89.0
4/19/2007	0:15:00	15.8	7.25	89.1
4/19/2007	0:30:00	15.7	7.27	89.1
4/19/2007	0:45:00	15.6	7.30	89.2
4/19/2007	1:00:00	15.5	7.32	89.2
4/19/2007	1:15:00	15.3	7.34	89.2
4/19/2007	1:30:00	15.2	7.36	89.3
4/19/2007	1:45:00	15.1	7.38	89.3

Table 5.37. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	2:00:00	15.0	7.43	89.6
4/19/2007	2:15:00	14.9	7.48	90.0
4/19/2007	2:30:00	14.8	7.53	90.4
4/19/2007	2:45:00	14.6	7.59	90.8
4/19/2007	3:00:00	14.5	7.66	91.5
4/19/2007	3:15:00	14.4	7.74	92.2
4/19/2007	3:30:00	14.3	7.81	92.8
4/19/2007	3:45:00	14.2	7.87	93.2
4/19/2007	4:00:00	14.0	7.89	93.2
4/19/2007	4:15:00	13.9	7.88	92.8
4/19/2007	4:30:00	13.8	7.87	92.5
4/19/2007	4:45:00	13.7	7.88	92.3
4/19/2007	5:00:00	13.6	7.90	92.3
4/19/2007	5:15:00	13.4	7.91	92.2
4/19/2007	5:30:00	13.3	7.92	92.0
4/19/2007	5:45:00	13.2	7.94	92.0
4/19/2007	6:00:00	13.0	7.98	92.2
4/19/2007	6:15:00	12.9	8.01	92.3
4/19/2007	6:30:00	12.8	8.03	92.3
4/19/2007	6:45:00	12.7	8.04	92.2
4/19/2007	7:00:00	12.6	8.05	92.1
4/19/2007	7:15:00	12.5	8.05	91.9
4/19/2007	7:30:00	12.4	8.06	91.8
4/19/2007	7:45:00	12.3	8.07	91.7
4/19/2007	8:00:00	12.2	8.08	91.7
4/19/2007	8:15:00	12.2	8.09	91.8
4/19/2007	8:30:00	12.2	8.11	91.9
4/19/2007	8:45:00	12.2	8.11	91.9
4/19/2007	9:00:00	12.2	8.10	91.9
4/19/2007	9:15:00	12.3	8.10	92.0
4/19/2007	9:30:00	12.4	8.09	92.1
4/19/2007	9:45:00	12.5	8.09	92.2
4/19/2007	10:00:00	12.6	8.08	92.4
4/19/2007	10:15:00	12.7	8.07	92.6
4/19/2007	10:30:00	12.9	8.06	92.8
4/19/2007	10:45:00	13.1	8.05	93.1
4/19/2007	11:00:00	13.3	8.03	93.3
4/19/2007	11:15:00	13.5	8.01	93.6
4/19/2007	11:30:00	13.7	8.00	93.9
4/19/2007	11:45:00	14.0	7.98	94.2
4/19/2007	12:00:00	14.3	7.95	94.6
4/19/2007	12:15:00	14.6	7.93	94.8
4/19/2007	12:30:00	14.9	7.89	95.0
4/19/2007	12:45:00	15.2	7.86	95.2
4/19/2007	13:00:00	15.5	7.83	95.5
4/19/2007	13:15:00	15.8	7.79	95.7

Table 5.37. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	13:30:00	16.2	7.75	95.9
4/19/2007	13:45:00	16.5	7.71	96.1
4/19/2007	14:00:00	16.8	7.67	96.3
4/19/2007	14:15:00	17.2	7.63	96.4
4/19/2007	14:30:00	17.4	7.60	96.6
4/19/2007	14:45:00	17.7	7.56	96.6
4/19/2007	15:00:00	18.0	7.52	96.7
4/19/2007	15:15:00	18.2	7.49	96.8
4/19/2007	15:30:00	18.5	7.47	97.1
4/19/2007	15:45:00	18.7	7.46	97.3
4/19/2007	16:00:00	18.9	7.46	97.8
4/19/2007	16:15:00	19.1	7.47	98.3
4/19/2007	16:30:00	19.3	7.45	98.5
4/19/2007	16:45:00	19.4	7.44	98.5
4/19/2007	17:00:00	19.5	7.42	98.5
4/19/2007	17:15:00	19.5	7.41	98.3
4/19/2007	17:30:00	19.5	7.39	98.0
4/19/2007	17:45:00	19.4	7.36	97.6
4/19/2007	18:00:00	19.4	7.34	97.0
4/19/2007	18:15:00	19.2	7.31	96.5
4/19/2007	18:30:00	19.1	7.30	96.1
4/19/2007	18:45:00	18.9	7.29	95.6
4/19/2007	19:00:00	18.8	7.29	95.3
4/19/2007	19:15:00	18.6	7.29	95.0
4/19/2007	19:30:00	18.4	7.29	94.6
4/19/2007	19:45:00	18.2	7.29	94.3
4/19/2007	20:00:00	18.1	7.30	94.1
4/19/2007	20:15:00	17.9	7.31	93.9
4/19/2007	20:30:00	17.8	7.33	93.8
4/19/2007	20:45:00	17.6	7.32	93.4
4/19/2007	21:00:00	17.6	7.31	93.3
4/19/2007	21:15:00	17.4	7.32	93.1
4/19/2007	21:30:00	17.3	7.35	93.2
4/19/2007	21:45:00	17.2	7.35	93.0
4/19/2007	22:00:00	17.1	7.34	92.7
4/19/2007	22:15:00	17.0	7.35	92.6
4/19/2007	22:30:00	16.8	7.37	92.5
4/19/2007	22:45:00	16.7	7.39	92.5
4/19/2007	23:00:00	16.5	7.42	92.6
4/19/2007	23:15:00	16.4	7.44	92.5
4/19/2007	23:30:00	16.3	7.47	92.7
4/19/2007	23:45:00	16.2	7.50	92.8
4/20/2007	0:00:00	16.0	7.52	92.9
4/20/2007	0:15:00	15.9	7.55	93.0
4/20/2007	0:30:00	15.8	7.60	93.4
4/20/2007	0:45:00	15.8	7.65	93.9

Table 5.37. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/20/2007	1:00:00	15.7	7.69	94.2
4/20/2007	1:15:00	15.6	7.77	94.9
4/20/2007	1:30:00	15.5	7.79	95.1
4/20/2007	1:45:00	15.4	7.77	94.6
4/20/2007	2:00:00	15.3	7.77	94.3
4/20/2007	2:15:00	15.2	7.80	94.5
4/20/2007	2:30:00	15.1	7.83	94.7
4/20/2007	2:45:00	15.0	7.85	94.8
4/20/2007	3:00:00	15.0	7.85	94.6
4/20/2007	3:15:00	14.8	7.84	94.3
4/20/2007	3:30:00	14.7	7.84	94.0
4/20/2007	3:45:00	14.6	7.85	94.0
4/20/2007	4:00:00	14.5	7.87	93.9
4/20/2007	4:15:00	14.4	7.86	93.6
4/20/2007	4:30:00	14.3	7.86	93.3
4/20/2007	4:45:00	14.2	7.85	93.0
4/20/2007	5:00:00	14.1	7.83	92.6
4/20/2007	5:15:00	13.9	7.83	92.2
4/20/2007	5:30:00	13.8	7.82	91.9
4/20/2007	5:45:00	13.7	7.81	91.5
4/20/2007	6:00:00	13.5	7.81	91.3
4/20/2007	6:15:00	13.4	7.83	91.2
4/20/2007	6:30:00	13.3	7.85	91.2
4/20/2007	6:45:00	13.2	7.88	91.4
4/20/2007	7:00:00	13.1	7.92	91.6
4/20/2007	7:15:00	13.0	7.96	91.8
4/20/2007	7:30:00	12.9	7.98	92.0
4/20/2007	7:45:00	12.9	8.01	92.1
4/20/2007	8:00:00	12.8	8.02	92.2
4/20/2007	8:15:00	12.8	8.04	92.3
4/20/2007	8:30:00	12.8	8.05	92.5

Table 5.38. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40184**	**Name**	**:**	**Homer**
Log	**File**	**Name**	**:**	**Site6_4_13_07_SanAntonio**
Setup	**Date**	**(MMDDYY)**	**:**	**4/17/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**9:00:00**
Starting	**Date**	**(MMDDYY)**	**:**	**4/17/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**9:30:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**4/20/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**12:00**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circltr	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time HHMMSS	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
4/17/2007	10:00:00	11.3	470	8.17	8.20	90.9
4/17/2007	10:15:00	11.5	471	8.18	8.21	91.5
4/17/2007	10:30:00	11.8	471	8.20	8.13	91.2
4/17/2007	10:45:00	12.1	470	8.20	8.20	92.5
4/17/2007	11:00:00	12.3	467	8.19	8.20	93.0
4/17/2007	11:15:00	12.6	469	8.18	8.13	92.8
4/17/2007	11:30:00	12.9	469	8.18	8.09	93.1
4/17/2007	11:45:00	13.2	468	8.18	8.09	93.6
4/17/2007	12:00:00	13.5	470	8.18	8.01	93.3
4/17/2007	12:15:00	13.8	470	8.18	8.02	94.0
4/17/2007	12:30:00	14.1	469	8.19	7.98	94.1
4/17/2007	12:45:00	14.4	471	8.18	7.88	93.6
4/17/2007	13:00:00	14.7	471	8.19	7.91	94.5
4/17/2007	13:15:00	14.9	473	8.19	7.80	93.8
4/17/2007	13:30:00	15.2	474	8.18	7.81	94.5
4/17/2007	13:45:00	15.5	473	8.18	7.86	95.7
4/17/2007	14:00:00	15.8	473	8.19	7.80	95.6
4/17/2007	14:15:00	16.1	475	8.18	7.76	95.7
4/17/2007	14:30:00	16.4	474	8.19	7.73	95.9
4/17/2007	14:45:00	16.6	441	8.19	7.69	95.8
4/17/2007	15:00:00	16.8	396	8.18	7.70	96.3
4/17/2007	15:15:00	17.0	365	8.18	7.65	96.0
4/17/2007	15:30:00	17.2	433	8.18	7.60	95.8
4/17/2007	15:45:00	17.4	431	8.18	7.59	96.0
4/17/2007	16:00:00	17.5	429	8.18	7.54	95.7
4/17/2007	16:15:00	17.7	346	8.17	7.55	96.2
4/17/2007	16:30:00	17.8	410	8.17	7.52	96.0
4/17/2007	16:45:00	17.8	465	8.18	7.41	94.6
4/17/2007	17:00:00	17.8	458	8.18	7.39	94.2
4/17/2007	17:15:00	17.9	443	8.18	7.35	94.0
4/17/2007	17:30:00	17.9	459	8.18	7.32	93.6
4/17/2007	17:45:00	17.9	305	8.18	7.44	95.0

Table 5.38. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/17/2007	18:00:00	17.8	274	8.17	7.46	95.3
4/17/2007	18:15:00	17.8	281	8.18	7.42	94.7
4/17/2007	18:30:00	17.7	289	8.17	7.38	93.9
4/17/2007	18:45:00	17.6	267	8.17	7.39	93.9
4/17/2007	19:00:00	17.5	265	8.17	7.35	93.1
4/17/2007	19:15:00	17.4	262	8.18	7.37	93.2
4/17/2007	19:30:00	17.3	255	8.17	7.32	92.4
4/17/2007	19:45:00	17.2	261	8.18	7.32	92.3
4/17/2007	20:00:00	17.1	262	8.17	7.34	92.2
4/17/2007	20:15:00	16.9	256	8.18	7.36	92.2
4/17/2007	20:30:00	16.8	258	8.18	7.32	91.5
4/17/2007	20:45:00	16.7	259	8.18	7.34	91.4
4/17/2007	21:00:00	16.5	252	8.18	7.35	91.3
4/17/2007	21:15:00	16.4	252	8.18	7.41	91.7
4/17/2007	21:30:00	16.2	259	8.18	7.35	90.7
4/17/2007	21:45:00	16.1	258	8.18	7.45	91.7
4/17/2007	22:00:00	15.9	270	8.18	7.43	91.1
4/17/2007	22:15:00	15.8	253	8.18	7.43	91.0
4/17/2007	22:30:00	15.7	257	8.18	7.49	91.4
4/17/2007	22:45:00	15.5	255	8.18	7.46	90.8
4/17/2007	23:00:00	15.4	252	8.17	7.51	91.2
4/17/2007	23:15:00	15.3	259	8.17	7.45	90.1
4/17/2007	23:30:00	15.2	259	8.17	7.49	90.4
4/17/2007	23:45:00	15.0	258	8.18	7.57	91.3
4/18/2007	0:00:00	14.9	264	8.18	7.57	90.8
4/18/2007	0:15:00	14.8	262	8.18	7.53	90.1
4/18/2007	0:30:00	14.6	268	8.18	7.55	90.1
4/18/2007	0:45:00	14.5	264	8.18	7.56	89.9
4/18/2007	1:00:00	14.4	292	8.17	7.57	89.8
4/18/2007	1:15:00	14.2	369	8.17	7.52	88.9
4/18/2007	1:30:00	14.1	325	8.17	7.67	90.5
4/18/2007	1:45:00	13.9	345	8.18	7.71	90.6
4/18/2007	2:00:00	13.8	373	8.19	7.66	89.8
4/18/2007	2:15:00	13.7	256	8.18	7.75	90.5
4/18/2007	2:30:00	13.5	295	8.19	7.73	90.1
4/18/2007	2:45:00	13.4	283	8.18	7.84	91.1
4/18/2007	3:00:00	13.3	278	8.19	7.87	91.2
4/18/2007	3:15:00	13.2	298	8.19	7.84	90.6
4/18/2007	3:30:00	13.0	297	8.19	7.87	90.6
4/18/2007	3:45:00	12.9	240	8.19	7.94	91.2
4/18/2007	4:00:00	12.8	241	8.18	7.95	91.2
4/18/2007	4:15:00	12.7	225	8.18	7.99	91.3
4/18/2007	4:30:00	12.6	228	8.18	8.06	92.0
4/18/2007	4:45:00	12.5	227	8.19	8.08	92.0
4/18/2007	5:00:00	12.4	227	8.19	8.13	92.2
4/18/2007	5:15:00	12.3	224	8.19	8.13	92.1

Table 5.38. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	5:30:00	12.2	219	8.19	8.03	90.7
4/18/2007	5:45:00	12.1	222	8.19	8.08	91.1
4/18/2007	6:00:00	12.0	233	8.20	8.04	90.5
4/18/2007	6:15:00	11.9	257	8.20	8.10	90.9
4/18/2007	6:30:00	11.8	262	8.23	8.14	91.3
4/18/2007	6:45:00	11.8	303	8.21	8.12	90.8
4/18/2007	7:00:00	11.7	401	8.20	8.09	90.4
4/18/2007	7:15:00	11.6	368	8.19	8.12	90.6
4/18/2007	7:30:00	11.6	204	8.18	6.67	74.4
4/18/2007	7:45:00	11.6	204	8.16	6.44	71.7
4/18/2007	8:00:00	11.6	206	8.21	5.48	61.1
4/18/2007	8:15:00	11.6	201	8.21	5.70	63.6
4/18/2007	8:30:00	11.6	202	8.15	5.03	56.1
4/18/2007	8:45:00	11.7	201	8.09	6.26	69.9
4/18/2007	9:00:00	11.7	199	8.09	6.28	70.2
4/18/2007	9:15:00	11.8	197	8.19	5.78	64.8
4/18/2007	9:30:00	11.9	201	8.20	6.17	69.3
4/18/2007	9:45:00	12.1	199	8.19	4.76	53.7
4/18/2007	10:00:00	12.3	226	8.14	4.66	52.8
4/18/2007	10:15:00	12.6	208	8.15	3.95	45.0
4/18/2007	10:30:00	12.8	230	8.16	3.90	44.5
4/18/2007	10:45:00	13.1	233	8.16	3.51	40.5
4/18/2007	11:00:00	13.4	234	8.17	3.67	42.3
4/18/2007	11:15:00	13.7	236	8.16	3.58	41.9
4/18/2007	11:30:00	13.9	233	8.13	3.47	40.7
4/18/2007	11:45:00	14.3	205	8.12	3.51	41.6
4/18/2007	12:00:00	14.6	240	8.20	6.24	74.4
4/18/2007	12:15:00	14.9	240	8.19	6.69	80.4
4/18/2007	12:30:00	15.2	236	8.19	7.56	91.3
4/18/2007	12:45:00	15.6	242	8.18	7.80	95.0
4/18/2007	13:00:00	15.9	267	8.18	7.79	95.6
4/18/2007	13:15:00	16.3	243	8.18	7.74	95.6
4/18/2007	13:30:00	16.5	259	8.18	7.73	96.0
4/18/2007	13:45:00	16.8	246	8.18	7.70	96.3
4/18/2007	14:00:00	17.1	250	8.18	7.63	96.1
4/18/2007	14:15:00	17.4	246	8.18	7.58	96.0
4/18/2007	14:30:00	17.7	244	8.18	7.54	96.0
4/18/2007	14:45:00	17.9	245	8.17	7.47	95.5
4/18/2007	15:00:00	18.2	245	8.18	7.43	95.5
4/18/2007	15:15:00	18.4	250	8.18	7.39	95.3
4/18/2007	15:30:00	18.5	242	8.18	7.38	95.6
4/18/2007	15:45:00	18.7	248	8.17	7.40	96.2
4/18/2007	16:00:00	18.8	252	8.17	7.26	94.6
4/18/2007	16:15:00	18.9	250	8.17	7.29	95.2
4/18/2007	16:30:00	19.0	257	8.17	7.21	94.3
4/18/2007	16:45:00	19.1	247	8.18	7.23	94.7

Table 5.38. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/18/2007	17:00:00	19.1	249	8.17	7.13	93.3
4/18/2007	17:15:00	19.1	255	8.17	7.16	93.7
4/18/2007	17:30:00	19.0	254	8.18	7.17	93.7
4/18/2007	17:45:00	19.0	261	8.17	7.15	93.5
4/18/2007	18:00:00	18.9	262	8.18	7.11	92.8
4/18/2007	18:15:00	18.8	258	8.18	7.11	92.6
4/18/2007	18:30:00	18.7	245	8.18	7.10	92.2
4/18/2007	18:45:00	18.5	239	8.18	7.03	91.1
4/18/2007	19:00:00	18.4	235	8.18	7.08	91.6
4/18/2007	19:15:00	18.3	234	8.18	7.04	90.8
4/18/2007	19:30:00	18.1	234	8.18	7.05	90.5
4/18/2007	19:45:00	17.9	239	8.18	7.06	90.3
4/18/2007	20:00:00	17.7	234	8.18	7.13	90.9
4/18/2007	20:15:00	17.6	230	8.19	7.12	90.3
4/18/2007	20:30:00	17.4	229	8.19	7.20	91.1
4/18/2007	20:45:00	17.3	234	8.19	7.17	90.5
4/18/2007	21:00:00	17.2	235	8.19	7.19	90.5
4/18/2007	21:15:00	17.0	240	8.19	7.19	90.3
4/18/2007	21:30:00	16.9	235	8.19	7.22	90.4
4/18/2007	21:45:00	16.8	238	8.19	7.21	90.1
4/18/2007	22:00:00	16.7	246	8.19	7.23	90.2
4/18/2007	22:15:00	16.6	253	8.19	7.22	89.8
4/18/2007	22:30:00	16.5	238	8.19	7.27	90.2
4/18/2007	22:45:00	16.4	238	8.19	7.23	89.6
4/18/2007	23:00:00	16.3	242	8.19	7.26	89.7
4/18/2007	23:15:00	16.1	228	8.19	7.31	90.1
4/18/2007	23:30:00	16.0	228	8.20	7.36	90.5
4/18/2007	23:45:00	15.9	237	8.19	7.37	90.4
4/19/2007	0:00:00	15.8	232	8.20	7.38	90.4
4/19/2007	0:15:00	15.7	225	8.20	7.36	89.9
4/19/2007	0:30:00	15.6	235	8.20	7.39	90.0
4/19/2007	0:45:00	15.5	232	8.20	7.42	90.2
4/19/2007	1:00:00	15.4	222	8.21	7.50	90.9
4/19/2007	1:15:00	15.3	237	8.21	7.45	90.2
4/19/2007	1:30:00	15.2	230	8.21	7.49	90.4
4/19/2007	1:45:00	15.0	245	8.21	7.52	90.5
4/19/2007	2:00:00	14.9	247	8.21	7.52	90.2
4/19/2007	2:15:00	14.8	247	8.21	7.56	90.5
4/19/2007	2:30:00	14.7	234	8.21	7.60	90.8
4/19/2007	2:45:00	14.6	237	8.21	7.55	89.9
4/19/2007	3:00:00	14.4	231	8.21	7.60	90.3
4/19/2007	3:15:00	14.3	238	8.21	7.64	90.5
4/19/2007	3:30:00	14.2	228	8.21	7.67	90.7
4/19/2007	3:45:00	14.1	257	8.21	7.67	90.5
4/19/2007	4:00:00	13.9	254	8.22	7.69	90.4
4/19/2007	4:15:00	13.8	245	8.22	7.76	90.9

Table 5.38. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	4:30:00	13.7	294	8.22	7.75	90.6
4/19/2007	4:45:00	13.6	248	8.22	7.81	91.0
4/19/2007	5:00:00	13.5	242	8.22	7.81	90.9
4/19/2007	5:15:00	13.3	230	8.22	7.81	90.6
4/19/2007	5:30:00	13.2	244	8.22	7.87	91.0
4/19/2007	5:45:00	13.1	244	8.22	7.85	90.4
4/19/2007	6:00:00	12.9	252	8.22	7.90	90.7
4/19/2007	6:15:00	12.8	234	8.22	7.93	90.9
4/19/2007	6:30:00	12.7	225	8.22	7.99	91.3
4/19/2007	6:45:00	12.6	225	8.23	7.94	90.8
4/19/2007	7:00:00	12.5	241	8.23	7.98	90.8
4/19/2007	7:15:00	12.4	250	8.23	7.97	90.5
4/19/2007	7:30:00	12.3	236	8.23	8.00	90.6
4/19/2007	7:45:00	12.2	230	8.23	8.04	90.9
4/19/2007	8:00:00	12.2	235	8.23	8.00	90.3
4/19/2007	8:15:00	12.1	236	8.23	8.05	90.8
4/19/2007	8:30:00	12.1	229	8.23	8.03	90.5
4/19/2007	8:45:00	12.1	232	8.23	8.04	90.7
4/19/2007	9:00:00	12.1	237	8.24	8.10	91.4
4/19/2007	9:15:00	12.2	231	8.23	8.09	91.5
4/19/2007	9:30:00	12.3	235	8.23	8.13	92.1
4/19/2007	9:45:00	12.4	245	8.24	8.09	91.8
4/19/2007	10:00:00	12.5	251	8.24	8.09	92.0
4/19/2007	10:15:00	12.6	246	8.24	8.09	92.4
4/19/2007	10:30:00	12.8	255	8.24	8.07	92.5
4/19/2007	10:45:00	13.0	259	8.24	8.11	93.3
4/19/2007	11:00:00	13.2	253	8.24	8.05	93.1
4/19/2007	11:15:00	13.4	254	8.24	8.05	93.5
4/19/2007	11:30:00	13.7	243	8.24	8.04	93.8
4/19/2007	11:45:00	14.0	256	8.24	8.02	94.4
4/19/2007	12:00:00	14.2	256	8.24	8.02	94.8
4/19/2007	12:15:00	14.5	254	8.24	8.01	95.3
4/19/2007	12:30:00	14.8	264	8.23	7.93	95.0
4/19/2007	12:45:00	15.1	244	8.24	7.96	95.9
4/19/2007	13:00:00	15.4	264	8.23	7.87	95.6
4/19/2007	13:15:00	15.8	263	8.23	7.85	95.9
4/19/2007	13:30:00	16.1	252	8.23	7.84	96.5
4/19/2007	13:45:00	16.4	249	8.23	7.78	96.4
4/19/2007	14:00:00	16.7	253	8.23	7.76	96.8
4/19/2007	14:15:00	17.1	245	8.23	7.68	96.5
4/19/2007	14:30:00	17.4	244	8.22	7.67	97.0
4/19/2007	14:45:00	17.6	252	8.22	7.65	97.2
4/19/2007	15:00:00	17.9	256	8.22	7.58	96.9
4/19/2007	15:15:00	18.2	238	8.22	7.58	97.1
4/19/2007	15:30:00	18.4	238	8.22	7.53	97.2
4/19/2007	15:45:00	18.6	248	8.21	7.49	97.2

Table 5.38. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/19/2007	16:00:00	18.9	228	8.21	7.46	97.4
4/19/2007	16:15:00	19.1	235	8.21	7.38	96.6
4/19/2007	16:30:00	19.2	240	8.21	7.32	96.2
4/19/2007	16:45:00	19.4	244	8.21	7.30	96.2
4/19/2007	17:00:00	19.4	237	8.21	7.18	94.7
4/19/2007	17:15:00	19.4	232	8.21	7.24	95.5
4/19/2007	17:30:00	19.4	238	8.21	7.22	95.2
4/19/2007	17:45:00	19.4	236	8.21	7.15	94.3
4/19/2007	18:00:00	19.3	241	8.21	7.14	93.8
4/19/2007	18:15:00	19.2	236	8.21	7.12	93.4
4/19/2007	18:30:00	19.0	236	8.21	7.11	93.0
4/19/2007	18:45:00	18.9	244	8.21	7.11	92.7
4/19/2007	19:00:00	18.7	233	8.21	7.12	92.5
4/19/2007	19:15:00	18.5	240	8.22	7.11	92.3
4/19/2007	19:30:00	18.3	233	8.21	7.10	91.6
4/19/2007	19:45:00	18.2	255	8.22	7.12	91.5
4/19/2007	20:00:00	18.0	249	8.22	7.10	90.9
4/19/2007	20:15:00	17.8	243	8.22	7.05	89.9
4/19/2007	20:30:00	17.7	253	8.22	7.09	90.3
4/19/2007	20:45:00	17.6	240	8.22	7.09	90.0
4/19/2007	21:00:00	17.5	240	8.22	7.11	90.1
4/19/2007	21:15:00	17.3	241	8.22	7.15	90.3
4/19/2007	21:30:00	17.2	244	8.22	7.15	90.1
4/19/2007	21:45:00	17.1	237	8.23	7.21	90.8
4/19/2007	22:00:00	17.0	238	8.23	7.18	90.2
4/19/2007	22:15:00	16.9	240	8.23	7.18	89.9
4/19/2007	22:30:00	16.8	242	8.23	7.21	90.0
4/19/2007	22:45:00	16.6	238	8.23	7.24	90.1
4/19/2007	23:00:00	16.4	240	8.23	7.28	90.2
4/19/2007	23:15:00	16.3	245	8.23	7.27	89.9
4/19/2007	23:30:00	16.2	248	8.23	7.26	89.6
4/19/2007	23:45:00	16.1	247	8.23	7.28	89.6
4/20/2007	0:00:00	16.0	250	8.23	7.31	89.7
4/20/2007	0:15:00	15.9	245	8.23	7.33	89.8
4/20/2007	0:30:00	15.8	252	8.23	7.32	89.4
4/20/2007	0:45:00	15.7	257	8.23	7.33	89.5
4/20/2007	1:00:00	15.6	254	8.23	7.37	89.7
4/20/2007	1:15:00	15.5	261	8.23	7.36	89.5
4/20/2007	1:30:00	15.4	266	8.23	7.37	89.4
4/20/2007	1:45:00	15.3	265	8.23	7.41	89.7
4/20/2007	2:00:00	15.2	267	8.23	7.40	89.4
4/20/2007	2:15:00	15.1	268	8.23	7.43	89.6
4/20/2007	2:30:00	15.0	258	8.24	7.43	89.4
4/20/2007	2:45:00	14.9	268	8.24	7.45	89.5
4/20/2007	3:00:00	14.9	257	8.24	7.47	89.6
4/20/2007	3:15:00	14.8	267	8.24	7.50	89.7

Table 5.38. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/20/2007	3:30:00	14.6	264	8.24	7.52	89.8
4/20/2007	3:45:00	14.5	270	8.24	7.53	89.6
4/20/2007	4:00:00	14.4	267	8.24	7.54	89.6
4/20/2007	4:15:00	14.3	227	8.24	7.59	90.0
4/20/2007	4:30:00	14.2	227	8.24	7.61	90.0
4/20/2007	4:45:00	14.1	228	8.24	7.53	88.8
4/20/2007	5:00:00	14.0	236	8.24	7.54	88.6
4/20/2007	5:15:00	13.8	241	8.24	7.54	88.5
4/20/2007	5:30:00	13.7	272	8.24	7.51	87.9
4/20/2007	5:45:00	13.6	266	8.23	7.60	88.6
4/20/2007	6:00:00	13.5	267	8.24	7.63	88.7
4/20/2007	6:15:00	13.3	311	8.24	7.61	88.3
4/20/2007	6:30:00	13.2	261	8.24	7.63	88.2
4/20/2007	6:45:00	13.1	231	8.24	7.66	88.4
4/20/2007	7:00:00	13.0	234	8.24	7.73	88.9
4/20/2007	7:15:00	12.9	245	8.24	7.69	88.3
4/20/2007	7:30:00	12.8	229	8.24	7.75	88.8
4/20/2007	7:45:00	12.8	237	8.24	7.75	88.7
4/20/2007	8:00:00	12.7	256	8.24	7.78	89.1
4/20/2007	8:15:00	12.7	239	8.24	7.83	89.5
4/20/2007	8:30:00	12.7	250	8.24	7.86	89.8

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	45476	**Name**	**:**	**Apollo**
Log	**File**	**Name**	**:**	**Site1_10_26-07-A**
Setup	**Date**	**(MMDDYY)**	**:**	**10/26/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**15:21:41**
Starting	**Date**	**(MMDDYY)**	**:**	**10/26/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**16:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**11/1/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**9:07:25**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/26/2007	16:00:00	15.76	9.31	112.1
10/26/2007	16:15:00	15.77	9.31	112.1
10/26/2007	16:30:00	15.74	9.30	111.9
10/26/2007	16:45:00	15.67	9.27	111.5
10/26/2007	17:00:00	15.58	9.24	110.9
10/26/2007	17:15:00	15.52	9.21	110.4
10/26/2007	17:30:00	15.42	9.18	109.8
10/26/2007	17:45:00	15.31	9.16	109.2
10/26/2007	18:00:00	15.19	9.14	108.7
10/26/2007	18:15:00	15.06	9.12	108.2
10/26/2007	18:30:00	14.92	9.08	107.5
10/26/2007	18:45:00	14.79	9.05	106.7
10/26/2007	19:00:00	14.66	9.02	106.1
10/26/2007	19:15:00	14.54	8.99	105.5
10/26/2007	19:30:00	14.40	8.96	104.7
10/26/2007	19:45:00	14.26	8.93	104.2
10/26/2007	20:00:00	14.14	8.91	103.6
10/26/2007	20:15:00	14.02	8.90	103.2
10/26/2007	20:30:00	13.89	8.88	102.7
10/26/2007	20:45:00	13.80	8.87	102.3
10/26/2007	21:00:00	13.70	8.85	101.9
10/26/2007	21:15:00	13.59	8.84	101.5
10/26/2007	21:30:00	13.49	8.82	101.1
10/26/2007	21:45:00	13.41	8.81	100.8
10/26/2007	22:00:00	13.33	8.81	100.6
10/26/2007	22:15:00	13.26	8.79	100.2
10/26/2007	22:30:00	13.18	8.79	100.0
10/26/2007	22:45:00	13.12	8.78	99.8
10/26/2007	23:00:00	13.06	8.78	99.7
10/26/2007	23:15:00	12.99	8.78	99.5
10/26/2007	23:30:00	12.93	8.79	99.5
10/26/2007	23:45:00	12.86	8.79	99.3
10/27/2007	0:00:00	12.79	8.79	99.2
10/27/2007	0:15:00	12.73	8.80	99.1
10/27/2007	0:30:00	12.66	8.81	99.1

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	0:45:00	12.59	8.82	99.0
10/27/2007	1:00:00	12.53	8.82	98.9
10/27/2007	1:15:00	12.47	8.83	98.9
10/27/2007	1:30:00	12.39	8.84	98.8
10/27/2007	1:45:00	12.32	8.84	98.7
10/27/2007	2:00:00	12.26	8.85	98.7
10/27/2007	2:15:00	12.21	8.86	98.6
10/27/2007	2:30:00	12.15	8.87	98.6
10/27/2007	2:45:00	12.11	8.87	98.6
10/27/2007	3:00:00	12.04	8.88	98.5
10/27/2007	3:15:00	11.99	8.89	98.5
10/27/2007	3:30:00	11.93	8.90	98.4
10/27/2007	3:45:00	11.89	8.91	98.5
10/27/2007	4:00:00	11.86	8.91	98.5
10/27/2007	4:15:00	11.81	8.92	98.4
10/27/2007	4:30:00	11.75	8.93	98.4
10/27/2007	4:45:00	11.71	8.95	98.5
10/27/2007	5:00:00	11.69	8.95	98.5
10/27/2007	5:15:00	11.65	8.96	98.5
10/27/2007	5:30:00	11.61	8.97	98.5
10/27/2007	5:45:00	11.58	8.97	98.4
10/27/2007	6:00:00	11.54	8.98	98.5
10/27/2007	6:15:00	11.52	8.99	98.5
10/27/2007	6:30:00	11.49	8.99	98.5
10/27/2007	6:45:00	11.47	9.00	98.5
10/27/2007	7:00:00	11.44	9.00	98.5
10/27/2007	7:15:00	11.43	9.00	98.4
10/27/2007	7:30:00	11.40	9.01	98.4
10/27/2007	7:45:00	11.38	9.01	98.5
10/27/2007	8:00:00	11.37	9.02	98.5
10/27/2007	8:15:00	11.37	9.03	98.6
10/27/2007	8:30:00	11.39	9.03	98.6
10/27/2007	8:45:00	11.42	9.05	99.0
10/27/2007	9:00:00	11.47	9.08	99.4
10/27/2007	9:15:00	11.53	9.12	99.9
10/27/2007	9:30:00	11.64	9.16	100.6
10/27/2007	9:45:00	11.77	9.20	101.4
10/27/2007	10:00:00	11.89	9.25	102.2
10/27/2007	10:15:00	12.05	9.29	103.0
10/27/2007	10:30:00	12.22	9.32	103.8
10/27/2007	10:45:00	12.41	9.36	104.7
10/27/2007	11:00:00	12.63	9.38	105.4
10/27/2007	11:15:00	12.84	9.40	106.2
10/27/2007	11:30:00	13.08	9.42	107.0
10/27/2007	11:45:00	13.33	9.44	107.8
10/27/2007	12:00:00	13.57	9.46	108.6

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	12:15:00	13.79	9.47	109.3
10/27/2007	12:30:00	14.02	9.49	110.0
10/27/2007	12:45:00	14.24	9.50	110.7
10/27/2007	13:00:00	14.47	9.51	111.4
10/27/2007	13:15:00	14.69	9.53	112.2
10/27/2007	13:30:00	14.89	9.53	112.6
10/27/2007	13:45:00	15.06	9.54	113.2
10/27/2007	14:00:00	15.20	9.55	113.6
10/27/2007	14:15:00	15.34	9.54	113.9
10/27/2007	14:30:00	15.46	9.55	114.2
10/27/2007	14:45:00	15.56	9.54	114.5
10/27/2007	15:00:00	15.64	9.54	114.6
10/27/2007	15:15:00	15.70	9.54	114.8
10/27/2007	15:30:00	15.73	9.53	114.7
10/27/2007	15:45:00	15.77	9.52	114.8
10/27/2007	16:00:00	15.79	9.52	114.7
10/27/2007	16:15:00	15.76	9.50	114.5
10/27/2007	16:30:00	15.73	9.48	114.1
10/27/2007	16:45:00	15.64	9.46	113.7
10/27/2007	17:00:00	15.56	9.43	113.1
10/27/2007	17:15:00	15.46	9.39	112.4
10/27/2007	17:30:00	15.36	9.36	111.8
10/27/2007	17:45:00	15.26	9.33	111.2
10/27/2007	18:00:00	15.16	9.31	110.7
10/27/2007	18:15:00	15.04	9.28	110.0
10/27/2007	18:30:00	14.90	9.24	109.3
10/27/2007	18:45:00	14.77	9.20	108.5
10/27/2007	19:00:00	14.66	9.16	107.8
10/27/2007	19:15:00	14.53	9.13	107.1
10/27/2007	19:30:00	14.41	9.09	106.3
10/27/2007	19:45:00	14.29	9.06	105.7
10/27/2007	20:00:00	14.19	9.03	105.1
10/27/2007	20:15:00	14.10	9.00	104.5
10/27/2007	20:30:00	13.99	8.97	104.0
10/27/2007	20:45:00	13.91	8.95	103.5
10/27/2007	21:00:00	13.83	8.92	103.0
10/27/2007	21:15:00	13.76	8.90	102.6
10/27/2007	21:30:00	13.69	8.88	102.3
10/27/2007	21:45:00	13.62	8.87	101.9
10/27/2007	22:00:00	13.54	8.86	101.6
10/27/2007	22:15:00	13.48	8.85	101.4
10/27/2007	22:30:00	13.43	8.84	101.2
10/27/2007	22:45:00	13.38	8.83	101.0
10/27/2007	23:00:00	13.32	8.83	100.8
10/27/2007	23:15:00	13.27	8.82	100.6
10/27/2007	23:30:00	13.22	8.83	100.5

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	23:45:00	13.16	8.83	100.4
10/28/2007	0:00:00	13.12	8.83	100.3
10/28/2007	0:15:00	13.05	8.83	100.2
10/28/2007	0:30:00	13.00	8.84	100.2
10/28/2007	0:45:00	12.94	8.84	100.0
10/28/2007	1:00:00	12.85	8.84	99.9
10/28/2007	1:15:00	12.76	8.85	99.8
10/28/2007	1:30:00	12.68	8.86	99.7
10/28/2007	1:45:00	12.60	8.87	99.6
10/28/2007	2:00:00	12.51	8.88	99.5
10/28/2007	2:15:00	12.42	8.89	99.4
10/28/2007	2:30:00	12.34	8.90	99.4
10/28/2007	2:45:00	12.27	8.91	99.4
10/28/2007	3:00:00	12.22	8.92	99.4
10/28/2007	3:15:00	12.16	8.93	99.3
10/28/2007	3:30:00	12.08	8.94	99.3
10/28/2007	3:45:00	12.03	8.95	99.3
10/28/2007	4:00:00	11.99	8.96	99.3
10/28/2007	4:15:00	11.94	8.97	99.3
10/28/2007	4:30:00	11.92	8.98	99.3
10/28/2007	4:45:00	11.88	8.99	99.3
10/28/2007	5:00:00	11.85	9.00	99.3
10/28/2007	5:15:00	11.81	9.00	99.3
10/28/2007	5:30:00	11.77	9.01	99.3
10/28/2007	5:45:00	11.74	9.02	99.3
10/28/2007	6:00:00	11.72	9.02	99.3
10/28/2007	6:15:00	11.71	9.03	99.4
10/28/2007	6:30:00	11.67	9.03	99.3
10/28/2007	6:45:00	11.64	9.04	99.3
10/28/2007	7:00:00	11.62	9.04	99.3
10/28/2007	7:15:00	11.57	9.05	99.2
10/28/2007	7:30:00	11.54	9.05	99.3
10/28/2007	7:45:00	11.51	9.06	99.2
10/28/2007	8:00:00	11.50	9.06	99.3
10/28/2007	8:15:00	11.50	9.07	99.3
10/28/2007	8:30:00	11.52	9.07	99.3
10/28/2007	8:45:00	11.56	9.09	99.7
10/28/2007	9:00:00	11.62	9.11	100.1
10/28/2007	9:15:00	11.69	9.15	100.6
10/28/2007	9:30:00	11.79	9.18	101.3
10/28/2007	9:45:00	11.91	9.22	102.0
10/28/2007	10:00:00	12.04	9.27	102.8
10/28/2007	10:15:00	12.18	9.31	103.6
10/28/2007	10:30:00	12.34	9.34	104.4
10/28/2007	10:45:00	12.52	9.37	105.1
10/28/2007	11:00:00	12.72	9.41	105.9

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	11:15:00	12.93	9.43	106.7
10/28/2007	11:30:00	13.16	9.45	107.5
10/28/2007	11:45:00	13.39	9.48	108.4
10/28/2007	12:00:00	13.62	9.50	109.2
10/28/2007	12:15:00	13.83	9.51	109.9
10/28/2007	12:30:00	14.07	9.54	110.7
10/28/2007	12:45:00	14.28	9.55	111.4
10/28/2007	13:00:00	14.49	9.56	112.1
10/28/2007	13:15:00	14.69	9.57	112.7
10/28/2007	13:30:00	14.87	9.58	113.2
10/28/2007	13:45:00	15.03	9.59	113.7
10/28/2007	14:00:00	15.19	9.60	114.2
10/28/2007	14:15:00	15.33	9.60	114.6
10/28/2007	14:30:00	15.44	9.59	114.8
10/28/2007	14:45:00	15.54	9.59	115.0
10/28/2007	15:00:00	15.63	9.59	115.2
10/28/2007	15:15:00	15.68	9.58	115.2
10/28/2007	15:30:00	15.69	9.56	115.0
10/28/2007	15:45:00	15.73	9.56	115.1
10/28/2007	16:00:00	15.71	9.55	114.9
10/28/2007	16:15:00	15.67	9.53	114.6
10/28/2007	16:30:00	15.61	9.51	114.2
10/28/2007	16:45:00	15.55	9.48	113.7
10/28/2007	17:00:00	15.44	9.44	112.9
10/28/2007	17:15:00	15.33	9.40	112.2
10/28/2007	17:30:00	15.22	9.36	111.4
10/28/2007	17:45:00	15.11	9.33	110.8
10/28/2007	18:00:00	15.00	9.31	110.3
10/28/2007	18:15:00	14.88	9.27	109.6
10/28/2007	18:30:00	14.76	9.23	108.8
10/28/2007	18:45:00	14.63	9.19	108.0
10/28/2007	19:00:00	14.52	9.15	107.3
10/28/2007	19:15:00	14.42	9.11	106.6
10/28/2007	19:30:00	14.31	9.08	106.0
10/28/2007	19:45:00	14.22	9.06	105.5
10/28/2007	20:00:00	14.12	9.03	104.9
10/28/2007	20:15:00	14.02	9.01	104.5
10/28/2007	20:30:00	13.94	8.98	104.0
10/28/2007	20:45:00	13.84	8.96	103.5
10/28/2007	21:00:00	13.77	8.94	103.1
10/28/2007	21:15:00	13.70	8.92	102.7
10/28/2007	21:30:00	13.63	8.90	102.3
10/28/2007	21:45:00	13.56	8.88	101.9
10/28/2007	22:00:00	13.51	8.86	101.7
10/28/2007	22:15:00	13.45	8.85	101.3
10/28/2007	22:30:00	13.43	8.84	101.2

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	22:45:00	13.39	8.83	101.0
10/28/2007	23:00:00	13.33	8.83	100.8
10/28/2007	23:15:00	13.28	8.82	100.6
10/28/2007	23:30:00	13.22	8.82	100.5
10/28/2007	23:45:00	13.17	8.82	100.4
10/29/2007	0:00:00	13.11	8.82	100.3
10/29/2007	0:15:00	13.05	8.83	100.2
10/29/2007	0:30:00	12.97	8.83	100.0
10/29/2007	0:45:00	12.92	8.83	99.9
10/29/2007	1:00:00	12.85	8.84	99.8
10/29/2007	1:15:00	12.79	8.84	99.7
10/29/2007	1:30:00	12.73	8.84	99.6
10/29/2007	1:45:00	12.67	8.85	99.6
10/29/2007	2:00:00	12.62	8.85	99.5
10/29/2007	2:15:00	12.55	8.86	99.4
10/29/2007	2:30:00	12.51	8.86	99.4
10/29/2007	2:45:00	12.46	8.87	99.3
10/29/2007	3:00:00	12.41	8.87	99.3
10/29/2007	3:15:00	12.36	8.88	99.2
10/29/2007	3:30:00	12.32	8.89	99.2
10/29/2007	3:45:00	12.27	8.89	99.2
10/29/2007	4:00:00	12.22	8.90	99.1
10/29/2007	4:15:00	12.17	8.90	99.0
10/29/2007	4:30:00	12.14	8.91	99.1
10/29/2007	4:45:00	12.11	8.92	99.1
10/29/2007	5:00:00	12.08	8.93	99.1
10/29/2007	5:15:00	12.02	8.93	99.0
10/29/2007	5:30:00	11.98	8.94	99.0
10/29/2007	5:45:00	11.94	8.94	99.0
10/29/2007	6:00:00	11.91	8.95	98.9
10/29/2007	6:15:00	11.88	8.95	98.9
10/29/2007	6:30:00	11.84	8.96	98.9
10/29/2007	6:45:00	11.79	8.96	98.8
10/29/2007	7:00:00	11.76	8.97	98.8
10/29/2007	7:15:00	11.72	8.98	98.8
10/29/2007	7:30:00	11.69	8.98	98.8
10/29/2007	7:45:00	11.66	8.99	98.9
10/29/2007	8:00:00	11.61	9.00	98.8
10/29/2007	8:15:00	11.61	9.01	98.9
10/29/2007	8:30:00	11.58	9.02	99.0
10/29/2007	8:45:00	11.59	9.05	99.3
10/29/2007	9:00:00	11.63	9.08	99.8
10/29/2007	9:15:00	11.67	9.13	100.4
10/29/2007	9:30:00	11.73	9.18	101.1
10/29/2007	9:45:00	11.83	9.24	101.9
10/29/2007	10:00:00	11.94	9.29	102.8

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	10:15:00	12.04	9.35	103.7
10/29/2007	10:30:00	12.18	9.39	104.5
10/29/2007	10:45:00	12.32	9.43	105.2
10/29/2007	11:00:00	12.49	9.46	106.0
10/29/2007	11:15:00	12.66	9.48	106.6
10/29/2007	11:30:00	12.84	9.50	107.3
10/29/2007	11:45:00	13.07	9.53	108.2
10/29/2007	12:00:00	13.29	9.56	109.0
10/29/2007	12:15:00	13.51	9.58	109.8
10/29/2007	12:30:00	13.72	9.59	110.5
10/29/2007	12:45:00	13.95	9.61	111.3
10/29/2007	13:00:00	14.17	9.63	112.0
10/29/2007	13:15:00	14.36	9.64	112.7
10/29/2007	13:30:00	14.56	9.66	113.4
10/29/2007	13:45:00	14.72	9.67	113.9
10/29/2007	14:00:00	14.89	9.68	114.4
10/29/2007	14:15:00	15.03	9.68	114.8
10/29/2007	14:30:00	15.13	9.68	115.0
10/29/2007	14:45:00	15.19	9.67	115.1
10/29/2007	15:00:00	15.31	9.67	115.3
10/29/2007	15:15:00	15.34	9.66	115.3
10/29/2007	15:30:00	15.37	9.65	115.3
10/29/2007	15:45:00	15.42	9.65	115.3
10/29/2007	16:00:00	15.38	9.64	115.2
10/29/2007	16:15:00	15.36	9.63	114.9
10/29/2007	16:30:00	15.27	9.61	114.6
10/29/2007	16:45:00	15.16	9.59	114.1
10/29/2007	17:00:00	15.03	9.56	113.4
10/29/2007	17:15:00	14.89	9.53	112.7
10/29/2007	17:30:00	14.76	9.51	112.0
10/29/2007	17:45:00	14.61	9.48	111.4
10/29/2007	18:00:00	14.48	9.45	110.8
10/29/2007	18:15:00	14.34	9.41	109.9
10/29/2007	18:30:00	14.21	9.37	109.1
10/29/2007	18:45:00	14.07	9.33	108.4
10/29/2007	19:00:00	13.94	9.29	107.6
10/29/2007	19:15:00	13.82	9.25	106.8
10/29/2007	19:30:00	13.70	9.21	106.0
10/29/2007	19:45:00	13.58	9.18	105.4
10/29/2007	20:00:00	13.46	9.15	104.8
10/29/2007	20:15:00	13.36	9.12	104.3
10/29/2007	20:30:00	13.26	9.10	103.8
10/29/2007	20:45:00	13.19	9.08	103.3
10/29/2007	21:00:00	13.11	9.06	102.9
10/29/2007	21:15:00	13.03	9.03	102.5
10/29/2007	21:30:00	12.96	9.01	102.0

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	21:45:00	12.90	8.99	101.7
10/29/2007	22:00:00	12.84	8.97	101.4
10/29/2007	22:15:00	12.78	8.96	101.1
10/29/2007	22:30:00	12.73	8.95	100.9
10/29/2007	22:45:00	12.68	8.94	100.6
10/29/2007	23:00:00	12.63	8.94	100.4
10/29/2007	23:15:00	12.57	8.94	100.3
10/29/2007	23:30:00	12.52	8.93	100.1
10/29/2007	23:45:00	12.46	8.93	100.0
10/30/2007	0:00:00	12.41	8.93	99.9
10/30/2007	0:15:00	12.36	8.93	99.8
10/30/2007	0:30:00	12.30	8.93	99.6
10/30/2007	0:45:00	12.25	8.93	99.5
10/30/2007	1:00:00	12.18	8.93	99.4
10/30/2007	1:15:00	12.12	8.93	99.3
10/30/2007	1:30:00	12.06	8.94	99.2
10/30/2007	1:45:00	12.01	8.94	99.1
10/30/2007	2:00:00	11.94	8.94	98.9
10/30/2007	2:15:00	11.86	8.95	98.8
10/30/2007	2:30:00	11.81	8.95	98.8
10/30/2007	2:45:00	11.76	8.96	98.7
10/30/2007	3:00:00	11.72	8.96	98.7
10/30/2007	3:15:00	11.66	8.97	98.6
10/30/2007	3:30:00	11.62	8.98	98.6
10/30/2007	3:45:00	11.56	8.98	98.5
10/30/2007	4:00:00	11.51	8.99	98.5
10/30/2007	4:15:00	11.47	8.99	98.5
10/30/2007	4:30:00	11.42	9.00	98.4
10/30/2007	4:45:00	11.37	9.01	98.4
10/30/2007	5:00:00	11.32	9.02	98.4
10/30/2007	5:15:00	11.27	9.02	98.3
10/30/2007	5:30:00	11.22	9.03	98.3
10/30/2007	5:45:00	11.18	9.03	98.2
10/30/2007	6:00:00	11.16	9.04	98.2
10/30/2007	6:15:00	11.11	9.04	98.2
10/30/2007	6:30:00	11.06	9.05	98.1
10/30/2007	6:45:00	11.03	9.06	98.1
10/30/2007	7:00:00	10.99	9.06	98.1
10/30/2007	7:15:00	10.96	9.06	98.0
10/30/2007	7:30:00	10.94	9.07	98.0
10/30/2007	7:45:00	10.92	9.07	98.0
10/30/2007	8:00:00	10.89	9.08	98.1
10/30/2007	8:15:00	10.86	9.08	98.0
10/30/2007	8:30:00	10.84	9.09	98.1
10/30/2007	8:45:00	10.84	9.12	98.4
10/30/2007	9:00:00	10.88	9.16	98.9

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	9:15:00	10.93	9.20	99.5
10/30/2007	9:30:00	10.99	9.25	100.2
10/30/2007	9:45:00	11.09	9.31	101.0
10/30/2007	10:00:00	11.19	9.36	101.8
10/30/2007	10:15:00	11.33	9.42	102.7
10/30/2007	10:30:00	11.47	9.46	103.6
10/30/2007	10:45:00	11.64	9.50	104.4
10/30/2007	11:00:00	11.83	9.54	105.3
10/30/2007	11:15:00	12.03	9.57	106.1
10/30/2007	11:30:00	12.25	9.59	106.9
10/30/2007	11:45:00	12.46	9.62	107.7
10/30/2007	12:00:00	12.67	9.64	108.4
10/30/2007	12:15:00	12.88	9.65	109.1
10/30/2007	12:30:00	13.09	9.67	109.9
10/30/2007	12:45:00	13.31	9.69	110.6
10/30/2007	13:00:00	13.50	9.70	111.2
10/30/2007	13:15:00	13.68	9.72	111.9
10/30/2007	13:30:00	13.86	9.73	112.4
10/30/2007	13:45:00	14.01	9.73	112.8
10/30/2007	14:00:00	14.16	9.73	113.2
10/30/2007	14:15:00	14.30	9.73	113.6
10/30/2007	14:30:00	14.42	9.73	113.9
10/30/2007	14:45:00	14.51	9.73	114.0
10/30/2007	15:00:00	14.58	9.73	114.2
10/30/2007	15:15:00	14.63	9.72	114.3
10/30/2007	15:30:00	14.67	9.71	114.3
10/30/2007	15:45:00	14.71	9.71	114.3
10/30/2007	16:00:00	14.71	9.70	114.2
10/30/2007	16:15:00	14.69	9.68	113.9
10/30/2007	16:30:00	14.65	9.66	113.6
10/30/2007	16:45:00	14.59	9.63	113.2
10/30/2007	17:00:00	14.52	9.59	112.5
10/30/2007	17:15:00	14.42	9.56	111.8
10/30/2007	17:30:00	14.32	9.52	111.1
10/30/2007	17:45:00	14.23	9.49	110.6
10/30/2007	18:00:00	14.13	9.46	110.0
10/30/2007	18:15:00	14.04	9.42	109.3
10/30/2007	18:30:00	13.93	9.37	108.4
10/30/2007	18:45:00	13.82	9.31	107.5
10/30/2007	19:00:00	13.71	9.26	106.7
10/30/2007	19:15:00	13.59	9.22	106.0
10/30/2007	19:30:00	13.49	9.19	105.3
10/30/2007	19:45:00	13.38	9.15	104.7
10/30/2007	20:00:00	13.29	9.13	104.1
10/30/2007	20:15:00	13.19	9.10	103.6
10/30/2007	20:30:00	13.11	9.08	103.1

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	20:45:00	13.01	9.05	102.6
10/30/2007	21:00:00	12.94	9.03	102.2
10/30/2007	21:15:00	12.88	9.00	101.8
10/30/2007	21:30:00	12.80	8.98	101.4
10/30/2007	21:45:00	12.73	8.96	101.0
10/30/2007	22:00:00	12.66	8.95	100.6
10/30/2007	22:15:00	12.61	8.93	100.4
10/30/2007	22:30:00	12.56	8.93	100.2
10/30/2007	22:45:00	12.51	8.92	99.9
10/30/2007	23:00:00	12.47	8.91	99.8
10/30/2007	23:15:00	12.42	8.91	99.7
10/30/2007	23:30:00	12.38	8.90	99.5
10/30/2007	23:45:00	12.33	8.90	99.4
10/31/2007	0:00:00	12.29	8.90	99.3
10/31/2007	0:15:00	12.26	8.90	99.2
10/31/2007	0:30:00	12.23	8.90	99.2
10/31/2007	0:45:00	12.18	8.90	99.0
10/31/2007	1:00:00	12.14	8.90	99.0
10/31/2007	1:15:00	12.11	8.90	98.9
10/31/2007	1:30:00	12.07	8.90	98.8
10/31/2007	1:45:00	12.03	8.91	98.7
10/31/2007	2:00:00	11.99	8.91	98.6
10/31/2007	2:15:00	11.96	8.91	98.6
10/31/2007	2:30:00	11.92	8.91	98.5
10/31/2007	2:45:00	11.90	8.91	98.5
10/31/2007	3:00:00	11.88	8.91	98.5
10/31/2007	3:15:00	11.85	8.92	98.5
10/31/2007	3:30:00	11.81	8.92	98.4
10/31/2007	3:45:00	11.76	8.92	98.3
10/31/2007	4:00:00	11.70	8.93	98.3
10/31/2007	4:15:00	11.64	8.94	98.2
10/31/2007	4:30:00	11.59	8.94	98.1
10/31/2007	4:45:00	11.54	8.95	98.2
10/31/2007	5:00:00	11.51	8.95	98.1
10/31/2007	5:15:00	11.46	8.96	98.1
10/31/2007	5:30:00	11.39	8.97	98.0
10/31/2007	5:45:00	11.35	8.98	98.0
10/31/2007	6:00:00	11.33	8.98	98.0
10/31/2007	6:15:00	11.29	8.99	98.0
10/31/2007	6:30:00	11.27	8.99	98.0
10/31/2007	6:45:00	11.22	9.00	97.9
10/31/2007	7:00:00	11.20	9.00	97.9
10/31/2007	7:15:00	11.18	9.01	97.9
10/31/2007	7:30:00	11.15	9.01	97.9
10/31/2007	7:45:00	11.11	9.02	97.9
10/31/2007	8:00:00	11.10	9.02	97.9

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	8:15:00	11.09	9.03	98.0
10/31/2007	8:30:00	11.08	9.05	98.1
10/31/2007	8:45:00	11.07	9.07	98.4
10/31/2007	9:00:00	11.09	9.10	98.7
10/31/2007	9:15:00	11.13	9.15	99.4
10/31/2007	9:30:00	11.16	9.19	99.9
10/31/2007	9:45:00	11.19	9.23	100.4
10/31/2007	10:00:00	11.23	9.27	100.9
10/31/2007	10:15:00	11.33	9.32	101.7
10/31/2007	10:30:00	11.44	9.37	102.5
10/31/2007	10:45:00	11.56	9.42	103.3
10/31/2007	11:00:00	11.69	9.45	104.0
10/31/2007	11:15:00	11.85	9.50	104.9
10/31/2007	11:30:00	12.04	9.54	105.8
10/31/2007	11:45:00	12.24	9.57	106.6
10/31/2007	12:00:00	12.42	9.60	107.4
10/31/2007	12:15:00	12.63	9.63	108.3
10/31/2007	12:30:00	12.87	9.67	109.2
10/31/2007	12:45:00	13.11	9.69	110.1
10/31/2007	13:00:00	13.33	9.71	110.9
10/31/2007	13:15:00	13.53	9.72	111.5
10/31/2007	13:30:00	13.74	9.74	112.3
10/31/2007	13:45:00	13.92	9.74	112.8
10/31/2007	14:00:00	14.09	9.75	113.2
10/31/2007	14:15:00	14.26	9.76	113.8
10/31/2007	14:30:00	14.36	9.75	113.9
10/31/2007	14:45:00	14.48	9.75	114.3
10/31/2007	15:00:00	14.57	9.75	114.4
10/31/2007	15:15:00	14.66	9.74	114.5
10/31/2007	15:30:00	14.68	9.72	114.4
10/31/2007	15:45:00	14.70	9.71	114.3
10/31/2007	16:00:00	14.70	9.69	114.1
10/31/2007	16:15:00	14.70	9.67	113.9
10/31/2007	16:30:00	14.65	9.65	113.5
10/31/2007	16:45:00	14.57	9.62	112.9
10/31/2007	17:00:00	14.49	9.57	112.2
10/31/2007	17:15:00	14.37	9.53	111.4
10/31/2007	17:30:00	14.26	9.49	110.7
10/31/2007	17:45:00	14.16	9.46	110.1
10/31/2007	18:00:00	14.04	9.43	109.4
10/31/2007	18:15:00	13.93	9.40	108.8
10/31/2007	18:30:00	13.82	9.36	108.0
10/31/2007	18:45:00	13.71	9.32	107.3
10/31/2007	19:00:00	13.61	9.28	106.6
10/31/2007	19:15:00	13.48	9.24	105.9
10/31/2007	19:30:00	13.36	9.21	105.3

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	19:45:00	13.25	9.19	104.7
10/31/2007	20:00:00	13.14	9.17	104.2
10/31/2007	20:15:00	13.03	9.14	103.7
10/31/2007	20:30:00	12.93	9.12	103.3
10/31/2007	20:45:00	12.85	9.11	102.9
10/31/2007	21:00:00	12.76	9.09	102.5
10/31/2007	21:15:00	12.68	9.07	102.1
10/31/2007	21:30:00	12.61	9.05	101.7
10/31/2007	21:45:00	12.52	9.04	101.4
10/31/2007	22:00:00	12.46	9.03	101.1
10/31/2007	22:15:00	12.39	9.02	100.9
10/31/2007	22:30:00	12.34	9.01	100.7
10/31/2007	22:45:00	12.28	9.01	100.5
10/31/2007	23:00:00	12.21	9.01	100.3
10/31/2007	23:15:00	12.14	9.01	100.2
10/31/2007	23:30:00	12.08	9.02	100.1
10/31/2007	23:45:00	12.02	9.02	100.0
11/1/2007	0:00:00	11.96	9.03	99.9
11/1/2007	0:15:00	11.89	9.03	99.8
11/1/2007	0:30:00	11.85	9.03	99.7
11/1/2007	0:45:00	11.78	9.04	99.6
11/1/2007	1:00:00	11.72	9.04	99.5
11/1/2007	1:15:00	11.67	9.05	99.5
11/1/2007	1:30:00	11.60	9.05	99.4
11/1/2007	1:45:00	11.53	9.06	99.3
11/1/2007	2:00:00	11.47	9.06	99.2
11/1/2007	2:15:00	11.41	9.07	99.2
11/1/2007	2:30:00	11.34	9.08	99.1
11/1/2007	2:45:00	11.29	9.09	99.1
11/1/2007	3:00:00	11.23	9.10	99.0
11/1/2007	3:15:00	11.17	9.10	99.0
11/1/2007	3:30:00	11.11	9.11	98.9
11/1/2007	3:45:00	11.03	9.12	98.8
11/1/2007	4:00:00	10.97	9.14	98.8
11/1/2007	4:15:00	10.91	9.14	98.8
11/1/2007	4:30:00	10.84	9.16	98.8
11/1/2007	4:45:00	10.78	9.17	98.8
11/1/2007	5:00:00	10.70	9.18	98.7
11/1/2007	5:15:00	10.62	9.19	98.6
11/1/2007	5:30:00	10.53	9.21	98.6
11/1/2007	5:45:00	10.46	9.22	98.6
11/1/2007	6:00:00	10.39	9.23	98.5
11/1/2007	6:15:00	10.33	9.24	98.5
11/1/2007	6:30:00	10.28	9.25	98.5
11/1/2007	6:45:00	10.20	9.26	98.4
11/1/2007	7:00:00	10.13	9.27	98.3

Table 5.39. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

11/1/2007	7:15:00	10.08	9.28	98.3
11/1/2007	7:30:00	10.02	9.29	98.3
11/1/2007	7:45:00	9.97	9.30	98.3
11/1/2007	8:00:00	9.91	9.32	98.3
11/1/2007	8:15:00	9.87	9.33	98.3
11/1/2007	8:30:00	9.83	9.34	98.4
11/1/2007	8:45:00	9.84	9.37	98.7

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**		
Log	**File**	**Name**	**:**	**Part of SITE6-10-22-07**		
Setup	**Date**	**(MMDDYY)**	**:**	**10/18/2007**		
Setup	**Time**	**(HHMMSS)**	**:**	**132514**		
Starting	**Date**	**(MMDDYY)**	**:**	**10/22/2007**		
Starting	**Time**	**(HHMMSS)**	**:**	**90000**		
Stopping	**Date**	**(MMDDYY)**	**:**	**11/2/2007**		
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**		
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**		
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**		
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**		

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
10/26/2007	16:00:00	15.5	319	8.72	8.29	99.0
10/26/2007	16:15:00	15.5	319	8.73	8.37	100.0
10/26/2007	16:30:00	15.4	319	8.74	8.33	99.4
10/26/2007	16:45:00	15.4	320	8.73	8.02	95.6
10/26/2007	17:00:00	15.3	320	8.72	8.23	97.9
10/26/2007	17:15:00	15.2	321	8.71	8.30	98.6
10/26/2007	17:30:00	15.1	321	8.69	8.11	96.2
10/26/2007	17:45:00	15.0	321	8.67	8.16	96.5
10/26/2007	18:00:00	14.9	322	8.70	8.22	97.0
10/26/2007	18:15:00	14.8	323	8.68	8.07	94.9
10/26/2007	18:30:00	14.6	323	8.69	7.99	93.7
10/26/2007	18:45:00	14.5	323	8.64	8.15	95.3
10/26/2007	19:00:00	14.4	323	8.69	8.14	94.9
10/26/2007	19:15:00	14.2	324	8.69	8.14	94.7
10/26/2007	19:30:00	14.1	324	8.59	7.97	92.3
10/26/2007	19:45:00	13.9	324	8.60	7.89	91.2
10/26/2007	20:00:00	13.8	324	8.65	7.98	91.9
10/26/2007	20:15:00	13.7	325	8.64	8.08	92.8
10/26/2007	20:30:00	13.6	325	8.58	7.85	90.0
10/26/2007	20:45:00	13.5	326	8.58	7.94	90.8
10/26/2007	21:00:00	13.4	327	8.65	7.86	89.7
10/26/2007	21:15:00	13.3	328	8.62	7.79	88.7
10/26/2007	21:30:00	13.2	328	8.57	7.89	89.7
10/26/2007	21:45:00	13.1	329	8.64	7.72	87.5
10/26/2007	22:00:00	13.0	329	8.60	7.95	90.0
10/26/2007	22:15:00	12.9	329	8.56	7.78	87.9
10/26/2007	22:30:00	12.9	329	8.56	7.74	87.3
10/26/2007	22:45:00	12.8	329	8.58	7.67	86.4
10/26/2007	23:00:00	12.7	329	8.61	7.77	87.4
10/26/2007	23:15:00	12.7	328	8.60	7.94	89.2
10/26/2007	23:30:00	12.6	327	8.56	7.77	87.2
10/26/2007	23:45:00	12.5	327	8.55	7.86	88.1
10/27/2007	0:00:00	12.5	328	8.56	7.84	87.7

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	0:15:00	12.4	327	8.54	7.70	86.0
10/27/2007	0:30:00	12.3	327	8.55	7.90	88.1
10/27/2007	0:45:00	12.3	326	8.59	7.79	86.8
10/27/2007	1:00:00	12.2	325	8.53	7.74	86.1
10/27/2007	1:15:00	12.2	324	8.58	7.98	88.7
10/27/2007	1:30:00	12.1	323	8.55	7.79	86.4
10/27/2007	1:45:00	12.0	323	8.55	7.75	85.7
10/27/2007	2:00:00	11.9	324	8.58	7.88	87.0
10/27/2007	2:15:00	11.9	323	8.52	7.85	86.6
10/27/2007	2:30:00	11.8	323	8.54	7.96	87.8
10/27/2007	2:45:00	11.8	322	8.53	7.91	87.1
10/27/2007	3:00:00	11.7	321	8.55	8.09	89.0
10/27/2007	3:15:00	11.7	320	8.53	8.06	88.5
10/27/2007	3:30:00	11.6	320	8.53	7.95	87.2
10/27/2007	3:45:00	11.6	319	8.58	8.06	88.3
10/27/2007	4:00:00	11.5	319	8.60	7.90	86.5
10/27/2007	4:15:00	11.5	318	8.61	7.91	86.5
10/27/2007	4:30:00	11.4	318	8.62	7.99	87.2
10/27/2007	4:45:00	11.4	318	8.57	7.94	86.6
10/27/2007	5:00:00	11.4	317	8.64	8.00	87.2
10/27/2007	5:15:00	11.3	317	8.69	8.15	88.8
10/27/2007	5:30:00	11.3	316	8.67	8.17	89.0
10/27/2007	5:45:00	11.3	316	8.66	8.13	88.4
10/27/2007	6:00:00	11.2	315	8.67	8.11	88.1
10/27/2007	6:15:00	11.2	314	8.68	7.99	86.8
10/27/2007	6:30:00	11.2	314	8.70	8.07	87.6
10/27/2007	6:45:00	11.2	314	8.75	8.02	87.0
10/27/2007	7:00:00	11.1	313	8.73	8.05	87.3
10/27/2007	7:15:00	11.1	312	8.75	8.12	88.0
10/27/2007	7:30:00	11.1	312	8.79	8.05	87.2
10/27/2007	7:45:00	11.1	311	8.82	8.02	86.8
10/27/2007	8:00:00	11.0	311	8.83	8.14	88.1
10/27/2007	8:15:00	11.1	310	8.87	8.15	88.3
10/27/2007	8:30:00	11.1	311	8.88	8.16	88.4
10/27/2007	8:45:00	11.1	311	8.89	8.13	88.2
10/27/2007	9:00:00	11.2	310	8.90	8.15	88.5
10/27/2007	9:15:00	11.2	310	8.87	8.16	88.7
10/27/2007	9:30:00	11.3	309	8.90	8.11	88.3
10/27/2007	9:45:00	11.5	309	8.88	8.14	88.9
10/27/2007	10:00:00	11.6	309	8.93	8.33	91.3
10/27/2007	10:15:00	11.7	308	8.90	8.40	92.4
10/27/2007	10:30:00	11.9	308	8.89	8.28	91.5
10/27/2007	10:45:00	12.1	308	8.88	8.39	93.0
10/27/2007	11:00:00	12.3	308	8.95	8.26	92.0
10/27/2007	11:15:00	12.5	308	8.87	8.44	94.5
10/27/2007	11:30:00	12.8	308	8.87	8.28	93.3

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	11:45:00	13.0	309	8.86	8.43	95.5
10/27/2007	12:00:00	13.3	309	8.87	8.30	94.5
10/27/2007	12:15:00	13.5	309	8.86	8.24	94.2
10/27/2007	12:30:00	13.7	309	8.86	8.38	96.3
10/27/2007	12:45:00	13.9	309	8.86	8.29	95.7
10/27/2007	13:00:00	14.2	309	8.85	8.19	95.1
10/27/2007	13:15:00	14.4	309	8.79	8.37	97.7
10/27/2007	13:30:00	14.6	310	8.81	8.19	96.0
10/27/2007	13:45:00	14.8	310	8.80	8.19	96.3
10/27/2007	14:00:00	14.9	310	8.78	8.14	96.0
10/27/2007	14:15:00	15.0	310	8.77	8.39	99.3
10/27/2007	14:30:00	15.2	311	8.71	8.28	98.3
10/27/2007	14:45:00	15.3	312	8.76	8.20	97.5
10/27/2007	15:00:00	15.3	312	8.72	8.15	97.1
10/27/2007	15:15:00	15.4	312	8.73	8.42	100.4
10/27/2007	15:30:00	15.4	312	8.70	8.12	96.9
10/27/2007	15:45:00	15.5	312	8.69	8.11	96.9
10/27/2007	16:00:00	15.5	312	8.69	8.33	99.6
10/27/2007	16:15:00	15.5	312	8.69	8.16	97.4
10/27/2007	16:30:00	15.4	312	8.66	8.28	98.8
10/27/2007	16:45:00	15.3	313	8.67	8.39	99.9
10/27/2007	17:00:00	15.2	313	8.67	8.11	96.3
10/27/2007	17:15:00	15.2	313	8.65	8.23	97.6
10/27/2007	17:30:00	15.0	313	8.64	8.27	97.9
10/27/2007	17:45:00	15.0	314	8.64	8.15	96.3
10/27/2007	18:00:00	14.8	314	8.63	8.13	95.8
10/27/2007	18:15:00	14.7	314	8.62	8.04	94.5
10/27/2007	18:30:00	14.6	315	8.63	7.98	93.5
10/27/2007	18:45:00	14.5	314	8.61	8.05	94.1
10/27/2007	19:00:00	14.3	314	8.63	8.04	93.7
10/27/2007	19:15:00	14.2	315	8.61	7.90	91.8
10/27/2007	19:30:00	14.1	315	8.61	7.97	92.4
10/27/2007	19:45:00	14.0	315	8.62	8.04	93.0
10/27/2007	20:00:00	13.9	316	8.59	7.85	90.6
10/27/2007	20:15:00	13.8	317	8.63	7.82	90.0
10/27/2007	20:30:00	13.7	318	8.57	7.82	89.9
10/27/2007	20:45:00	13.6	319	8.58	8.01	91.9
10/27/2007	21:00:00	13.5	319	8.59	7.94	90.9
10/27/2007	21:15:00	13.4	320	8.60	7.84	89.7
10/27/2007	21:30:00	13.4	320	8.59	7.77	88.7
10/27/2007	21:45:00	13.3	320	8.58	7.81	89.0
10/27/2007	22:00:00	13.2	321	8.59	7.85	89.3
10/27/2007	22:15:00	13.2	321	8.59	7.92	90.0
10/27/2007	22:30:00	13.1	322	8.61	7.68	87.1
10/27/2007	22:45:00	13.1	322	8.58	7.88	89.3
10/27/2007	23:00:00	13.0	322	8.57	7.71	87.3

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	23:15:00	12.9	322	8.57	7.91	89.4
10/27/2007	23:30:00	12.9	323	8.58	7.87	88.8
10/27/2007	23:45:00	12.8	322	8.56	7.85	88.5
10/28/2007	0:00:00	12.8	322	8.58	7.96	89.6
10/28/2007	0:15:00	12.7	322	8.56	7.85	88.3
10/28/2007	0:30:00	12.7	321	8.58	7.64	85.9
10/28/2007	0:45:00	12.6	321	8.57	7.80	87.6
10/28/2007	1:00:00	12.5	322	8.57	7.79	87.3
10/28/2007	1:15:00	12.4	322	8.55	7.83	87.5
10/28/2007	1:30:00	12.4	322	8.55	7.71	86.0
10/28/2007	1:45:00	12.3	322	8.57	7.83	87.2
10/28/2007	2:00:00	12.2	321	8.56	7.68	85.4
10/28/2007	2:15:00	12.1	319	8.57	7.94	88.1
10/28/2007	2:30:00	12.0	319	8.56	7.74	85.7
10/28/2007	2:45:00	12.0	319	8.56	7.83	86.5
10/28/2007	3:00:00	11.9	319	8.55	7.98	88.1
10/28/2007	3:15:00	11.8	319	8.56	7.83	86.3
10/28/2007	3:30:00	11.8	319	8.55	7.94	87.4
10/28/2007	3:45:00	11.7	319	8.58	7.91	87.0
10/28/2007	4:00:00	11.7	319	8.58	8.08	88.7
10/28/2007	4:15:00	11.6	319	8.60	8.10	88.8
10/28/2007	4:30:00	11.6	318	8.62	7.82	85.7
10/28/2007	4:45:00	11.6	318	8.63	7.95	87.1
10/28/2007	5:00:00	11.5	318	8.64	7.92	86.6
10/28/2007	5:15:00	11.5	317	8.65	8.04	88.0
10/28/2007	5:30:00	11.5	316	8.66	8.18	89.4
10/28/2007	5:45:00	11.4	316	8.68	7.87	85.9
10/28/2007	6:00:00	11.4	316	8.70	8.13	88.7
10/28/2007	6:15:00	11.4	315	8.74	8.02	87.5
10/28/2007	6:30:00	11.4	315	8.75	8.04	87.7
10/28/2007	6:45:00	11.3	314	8.76	8.11	88.4
10/28/2007	7:00:00	11.3	314	8.78	7.91	86.1
10/28/2007	7:15:00	11.3	313	8.79	7.92	86.1
10/28/2007	7:30:00	11.2	313	8.81	8.14	88.5
10/28/2007	7:45:00	11.2	313	8.83	8.01	87.0
10/28/2007	8:00:00	11.2	312	8.84	7.85	85.3
10/28/2007	8:15:00	11.2	312	8.85	7.94	86.2
10/28/2007	8:30:00	11.2	312	8.86	7.85	85.3
10/28/2007	8:45:00	11.2	312	8.87	8.11	88.2
10/28/2007	9:00:00	11.3	311	8.89	8.10	88.2
10/28/2007	9:15:00	11.4	311	8.90	8.13	88.7
10/28/2007	9:30:00	11.5	311	8.94	8.14	88.9
10/28/2007	9:45:00	11.6	312	8.90	8.24	90.3
10/28/2007	10:00:00	11.7	312	8.92	8.17	89.9
10/28/2007	10:15:00	11.9	312	8.93	8.26	91.1
10/28/2007	10:30:00	12.0	312	8.92	8.31	92.0

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	10:45:00	12.2	312	8.94	8.29	92.2
10/28/2007	11:00:00	12.4	312	8.92	8.10	90.5
10/28/2007	11:15:00	12.6	312	8.91	8.14	91.4
10/28/2007	11:30:00	12.9	312	8.89	8.03	90.6
10/28/2007	11:45:00	13.1	312	8.90	8.26	93.7
10/28/2007	12:00:00	13.3	312	8.88	8.32	94.8
10/28/2007	12:15:00	13.5	313	8.88	8.35	95.7
10/28/2007	12:30:00	13.8	313	8.87	8.27	95.2
10/28/2007	12:45:00	14.0	314	8.84	8.40	97.1
10/28/2007	13:00:00	14.2	314	8.82	8.47	98.4
10/28/2007	13:15:00	14.4	315	8.82	8.33	97.2
10/28/2007	13:30:00	14.6	315	8.82	8.17	95.7
10/28/2007	13:45:00	14.7	315	8.79	8.26	97.1
10/28/2007	14:00:00	14.9	316	8.77	8.27	97.6
10/28/2007	14:15:00	15.0	316	8.77	8.35	98.9
10/28/2007	14:30:00	15.1	316	8.74	8.26	97.9
10/28/2007	14:45:00	15.2	317	8.72	8.20	97.5
10/28/2007	15:00:00	15.3	318	8.71	8.30	98.9
10/28/2007	15:15:00	15.4	318	8.71	8.17	97.4
10/28/2007	15:30:00	15.4	318	8.69	8.31	99.1
10/28/2007	15:45:00	15.4	318	8.69	8.33	99.4
10/28/2007	16:00:00	15.4	318	8.68	8.27	98.6
10/28/2007	16:15:00	15.4	318	8.67	8.25	98.4
10/28/2007	16:30:00	15.3	319	8.66	8.02	95.5
10/28/2007	16:45:00	15.2	319	8.65	8.37	99.5
10/28/2007	17:00:00	15.1	320	8.66	7.91	93.9
10/28/2007	17:15:00	15.0	322	8.65	8.06	95.3
10/28/2007	17:30:00	14.9	322	8.65	7.91	93.3
10/28/2007	17:45:00	14.8	322	8.64	8.26	97.2
10/28/2007	18:00:00	14.7	323	8.63	7.80	91.7
10/28/2007	18:15:00	14.6	324	8.63	7.94	93.0
10/28/2007	18:30:00	14.4	324	8.62	7.81	91.3
10/28/2007	18:45:00	14.3	324	8.62	8.05	93.8
10/28/2007	19:00:00	14.2	324	8.62	8.01	93.1
10/28/2007	19:15:00	14.1	323	8.61	8.03	93.1
10/28/2007	19:30:00	14.0	323	8.62	7.77	89.9
10/28/2007	19:45:00	13.9	323	8.61	7.88	91.0
10/28/2007	20:00:00	13.8	324	8.60	7.98	91.9
10/28/2007	20:15:00	13.7	323	8.61	7.77	89.4
10/28/2007	20:30:00	13.6	323	8.60	7.95	91.2
10/28/2007	20:45:00	13.5	323	8.60	7.71	88.2
10/28/2007	21:00:00	13.5	323	8.60	7.67	87.7
10/28/2007	21:15:00	13.4	322	8.61	7.71	88.0
10/28/2007	21:30:00	13.3	322	8.60	7.51	85.6
10/28/2007	21:45:00	13.3	322	8.59	7.70	87.6
10/28/2007	22:00:00	13.2	323	8.60	7.70	87.5

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	22:15:00	13.1	323	8.59	7.65	86.9
10/28/2007	22:30:00	13.1	321	8.59	7.80	88.5
10/28/2007	22:45:00	13.1	321	8.59	7.73	87.6
10/28/2007	23:00:00	13.0	322	8.58	7.63	86.4
10/28/2007	23:15:00	13.0	322	8.56	7.75	87.7
10/28/2007	23:30:00	12.9	321	8.56	7.92	89.4
10/28/2007	23:45:00	12.8	320	8.57	7.66	86.4
10/29/2007	0:00:00	12.8	320	8.55	7.64	86.1
10/29/2007	0:15:00	12.7	321	8.56	7.70	86.6
10/29/2007	0:30:00	12.7	320	8.55	7.63	85.7
10/29/2007	0:45:00	12.6	321	8.56	7.71	86.5
10/29/2007	1:00:00	12.5	322	8.55	7.69	86.1
10/29/2007	1:15:00	12.5	322	8.55	7.94	88.8
10/29/2007	1:30:00	12.4	322	8.55	7.82	87.4
10/29/2007	1:45:00	12.4	321	8.55	7.55	84.2
10/29/2007	2:00:00	12.3	320	8.52	7.78	86.6
10/29/2007	2:15:00	12.2	320	8.55	7.76	86.4
10/29/2007	2:30:00	12.2	320	8.53	7.81	86.8
10/29/2007	2:45:00	12.1	320	8.53	7.77	86.3
10/29/2007	3:00:00	12.1	320	8.54	7.74	85.8
10/29/2007	3:15:00	12.0	319	8.53	8.02	88.8
10/29/2007	3:30:00	12.0	319	8.57	7.74	85.7
10/29/2007	3:45:00	11.9	319	8.56	7.84	86.7
10/29/2007	4:00:00	11.9	318	8.57	7.69	84.8
10/29/2007	4:15:00	11.9	318	8.58	7.98	88.0
10/29/2007	4:30:00	11.8	317	8.60	7.98	87.9
10/29/2007	4:45:00	11.8	317	8.59	7.95	87.5
10/29/2007	5:00:00	11.8	316	8.61	7.86	86.5
10/29/2007	5:15:00	11.7	316	8.64	7.86	86.3
10/29/2007	5:30:00	11.7	315	8.65	7.92	87.0
10/29/2007	5:45:00	11.6	315	8.67	7.95	87.2
10/29/2007	6:00:00	11.6	314	8.68	7.83	85.9
10/29/2007	6:15:00	11.5	313	8.69	8.08	88.5
10/29/2007	6:30:00	11.5	313	8.73	7.84	85.8
10/29/2007	6:45:00	11.5	312	8.75	7.85	85.8
10/29/2007	7:00:00	11.4	312	8.76	7.99	87.3
10/29/2007	7:15:00	11.4	311	8.77	8.10	88.5
10/29/2007	7:30:00	11.4	311	8.79	7.92	86.4
10/29/2007	7:45:00	11.3	310	8.79	8.00	87.2
10/29/2007	8:00:00	11.3	310	8.81	8.15	88.7
10/29/2007	8:15:00	11.3	309	8.83	8.11	88.3
10/29/2007	8:30:00	11.3	309	8.83	7.94	86.4
10/29/2007	8:45:00	11.3	309	8.85	8.05	87.6
10/29/2007	9:00:00	11.3	308	8.86	8.11	88.3
10/29/2007	9:15:00	11.3	308	8.88	8.08	88.1
10/29/2007	9:30:00	11.4	308	8.88	7.97	87.0

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	9:45:00	11.5	308	8.88	8.29	90.7
10/29/2007	10:00:00	11.6	307	8.90	8.15	89.4
10/29/2007	10:15:00	11.7	307	8.89	8.48	93.2
10/29/2007	10:30:00	11.9	307	8.89	8.35	92.1
10/29/2007	10:45:00	12.0	307	8.88	8.41	93.1
10/29/2007	11:00:00	12.2	307	8.89	8.45	93.9
10/29/2007	11:15:00	12.3	307	8.89	8.02	89.4
10/29/2007	11:30:00	12.5	308	8.88	8.34	93.5
10/29/2007	11:45:00	12.8	308	8.88	8.45	95.1
10/29/2007	12:00:00	13.0	308	8.87	8.36	94.6
10/29/2007	12:15:00	13.2	308	8.85	8.40	95.5
10/29/2007	12:30:00	13.4	308	8.85	8.50	97.1
10/29/2007	12:45:00	13.7	309	8.83	8.42	96.7
10/29/2007	13:00:00	13.9	309	8.83	8.36	96.5
10/29/2007	13:15:00	14.1	310	8.83	8.42	97.6
10/29/2007	13:30:00	14.3	310	8.80	8.29	96.4
10/29/2007	13:45:00	14.4	310	8.79	8.19	95.6
10/29/2007	14:00:00	14.6	310	8.78	8.35	97.9
10/29/2007	14:15:00	14.7	310	8.76	8.46	99.5
10/29/2007	14:30:00	14.8	311	8.75	8.32	98.1
10/29/2007	14:45:00	14.9	311	8.73	8.54	100.8
10/29/2007	15:00:00	15.0	311	8.71	8.44	99.8
10/29/2007	15:15:00	15.0	311	8.70	8.30	98.2
10/29/2007	15:30:00	15.1	312	8.70	8.36	99.0
10/29/2007	15:45:00	15.1	312	8.69	8.29	98.3
10/29/2007	16:00:00	15.1	312	8.68	8.44	99.9
10/29/2007	16:15:00	15.0	312	8.66	8.20	97.1
10/29/2007	16:30:00	14.9	312	8.67	8.43	99.5
10/29/2007	16:45:00	14.8	312	8.65	8.25	97.2
10/29/2007	17:00:00	14.7	313	8.65	8.26	97.0
10/29/2007	17:15:00	14.6	313	8.64	8.39	98.4
10/29/2007	17:30:00	14.4	313	8.64	8.11	94.7
10/29/2007	17:45:00	14.3	313	8.63	8.26	96.2
10/29/2007	18:00:00	14.2	313	8.63	8.16	94.8
10/29/2007	18:15:00	14.0	313	8.63	8.05	93.3
10/29/2007	18:30:00	13.9	313	8.61	8.30	95.8
10/29/2007	18:45:00	13.8	313	8.62	7.91	91.1
10/29/2007	19:00:00	13.6	313	8.60	8.12	93.2
10/29/2007	19:15:00	13.5	313	8.61	8.03	91.9
10/29/2007	19:30:00	13.4	313	8.59	8.03	91.7
10/29/2007	19:45:00	13.3	313	8.59	7.94	90.4
10/29/2007	20:00:00	13.1	313	8.60	7.89	89.6
10/29/2007	20:15:00	13.0	313	8.60	7.93	89.8
10/29/2007	20:30:00	12.9	313	8.59	7.93	89.6
10/29/2007	20:45:00	12.9	313	8.59	7.78	87.8
10/29/2007	21:00:00	12.8	313	8.57	7.87	88.6

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	21:15:00	12.7	314	8.56	7.94	89.3
10/29/2007	21:30:00	12.7	314	8.56	7.92	88.9
10/29/2007	21:45:00	12.6	314	8.56	7.87	88.2
10/29/2007	22:00:00	12.5	314	8.56	7.98	89.3
10/29/2007	22:15:00	12.5	314	8.56	7.73	86.4
10/29/2007	22:30:00	12.4	314	8.55	7.86	87.8
10/29/2007	22:45:00	12.4	314	8.56	7.93	88.4
10/29/2007	23:00:00	12.3	314	8.55	7.65	85.2
10/29/2007	23:15:00	12.2	314	8.54	7.94	88.4
10/29/2007	23:30:00	12.2	314	8.56	7.88	87.6
10/29/2007	23:45:00	12.1	314	8.54	7.82	86.8
10/30/2007	0:00:00	12.1	314	8.54	7.82	86.7
10/30/2007	0:15:00	12.0	314	8.54	7.83	86.7
10/30/2007	0:30:00	12.0	315	8.53	7.98	88.2
10/30/2007	0:45:00	11.9	314	8.53	7.70	85.1
10/30/2007	1:00:00	11.9	314	8.52	7.81	86.1
10/30/2007	1:15:00	11.8	315	8.53	7.87	86.7
10/30/2007	1:30:00	11.7	315	8.53	7.91	87.0
10/30/2007	1:45:00	11.7	314	8.50	7.72	84.8
10/30/2007	2:00:00	11.6	315	8.51	7.94	87.1
10/30/2007	2:15:00	11.5	315	8.50	7.85	86.0
10/30/2007	2:30:00	11.5	316	8.50	7.96	87.0
10/30/2007	2:45:00	11.4	316	8.52	7.88	86.1
10/30/2007	3:00:00	11.4	316	8.52	7.96	86.9
10/30/2007	3:15:00	11.3	316	8.52	7.74	84.4
10/30/2007	3:30:00	11.3	316	8.53	7.83	85.2
10/30/2007	3:45:00	11.2	316	8.53	7.83	85.1
10/30/2007	4:00:00	11.2	316	8.54	7.96	86.5
10/30/2007	4:15:00	11.1	316	8.54	8.06	87.4
10/30/2007	4:30:00	11.1	316	8.57	7.88	85.4
10/30/2007	4:45:00	11.0	315	8.57	7.89	85.5
10/30/2007	5:00:00	11.0	315	8.59	7.93	85.8
10/30/2007	5:15:00	10.9	315	8.60	7.90	85.3
10/30/2007	5:30:00	10.9	314	8.61	8.09	87.4
10/30/2007	5:45:00	10.9	314	8.64	7.97	85.9
10/30/2007	6:00:00	10.8	314	8.66	8.13	87.6
10/30/2007	6:15:00	10.8	314	8.67	8.00	86.0
10/30/2007	6:30:00	10.7	314	8.68	7.92	85.2
10/30/2007	6:45:00	10.7	313	8.70	8.11	87.1
10/30/2007	7:00:00	10.7	313	8.73	8.05	86.4
10/30/2007	7:15:00	10.6	313	8.75	8.02	86.0
10/30/2007	7:30:00	10.6	313	8.76	7.77	83.3
10/30/2007	7:45:00	10.6	312	8.76	8.04	86.1
10/30/2007	8:00:00	10.5	312	8.79	7.86	84.1
10/30/2007	8:15:00	10.5	312	8.80	8.20	87.7
10/30/2007	8:30:00	10.5	312	8.82	8.10	86.7

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	8:45:00	10.5	311	8.83	8.08	86.4
10/30/2007	9:00:00	10.6	311	8.84	8.22	88.0
10/30/2007	9:15:00	10.6	311	8.86	8.36	89.6
10/30/2007	9:30:00	10.7	311	8.84	8.13	87.2
10/30/2007	9:45:00	10.8	311	8.87	8.22	88.4
10/30/2007	10:00:00	10.9	311	8.86	8.30	89.5
10/30/2007	10:15:00	11.0	311	8.88	8.32	89.9
10/30/2007	10:30:00	11.2	311	8.88	8.23	89.4
10/30/2007	10:45:00	11.3	311	8.88	8.44	92.0
10/30/2007	11:00:00	11.5	311	8.87	8.48	92.8
10/30/2007	11:15:00	11.7	311	8.87	8.53	93.8
10/30/2007	11:30:00	11.9	311	8.87	8.41	92.9
10/30/2007	11:45:00	12.2	311	8.86	8.50	94.4
10/30/2007	12:00:00	12.4	311	8.86	8.37	93.3
10/30/2007	12:15:00	12.6	312	8.85	8.44	94.6
10/30/2007	12:30:00	12.8	312	8.84	8.32	93.7
10/30/2007	12:45:00	13.0	313	8.83	8.57	97.0
10/30/2007	13:00:00	13.2	313	8.81	8.36	95.1
10/30/2007	13:15:00	13.4	314	8.80	8.64	98.6
10/30/2007	13:30:00	13.6	314	8.78	8.53	97.7
10/30/2007	13:45:00	13.7	315	8.77	8.41	96.7
10/30/2007	14:00:00	13.9	315	8.75	8.37	96.5
10/30/2007	14:15:00	14.0	316	8.74	8.45	97.7
10/30/2007	14:30:00	14.1	316	8.72	8.46	98.2
10/30/2007	14:45:00	14.2	317	8.71	8.53	99.2
10/30/2007	15:00:00	14.3	317	8.70	8.38	97.6
10/30/2007	15:15:00	14.3	317	8.69	8.34	97.2
10/30/2007	15:30:00	14.4	318	8.68	8.41	98.1
10/30/2007	15:45:00	14.4	318	8.66	8.45	98.6
10/30/2007	16:00:00	14.4	319	8.65	8.42	98.3
10/30/2007	16:15:00	14.4	319	8.64	8.36	97.5
10/30/2007	16:30:00	14.3	319	8.65	8.33	97.1
10/30/2007	16:45:00	14.3	319	8.63	8.41	97.8
10/30/2007	17:00:00	14.2	319	8.63	8.30	96.4
10/30/2007	17:15:00	14.1	320	8.62	8.40	97.4
10/30/2007	17:30:00	14.0	320	8.62	8.23	95.2
10/30/2007	17:45:00	13.9	320	8.62	8.24	95.2
10/30/2007	18:00:00	13.8	320	8.61	7.99	92.1
10/30/2007	18:15:00	13.7	321	8.60	8.00	92.0
10/30/2007	18:30:00	13.6	322	8.60	8.04	92.3
10/30/2007	18:45:00	13.5	323	8.60	7.97	91.2
10/30/2007	19:00:00	13.4	323	8.59	7.99	91.2
10/30/2007	19:15:00	13.3	323	8.59	7.98	90.9
10/30/2007	19:30:00	13.2	323	8.58	7.95	90.3
10/30/2007	19:45:00	13.1	324	8.58	7.91	89.6
10/30/2007	20:00:00	13.0	324	8.58	7.78	88.0

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	20:15:00	12.9	325	8.57	7.86	88.7
10/30/2007	20:30:00	12.8	326	8.57	7.95	89.5
10/30/2007	20:45:00	12.7	327	8.56	7.94	89.3
10/30/2007	21:00:00	12.6	326	8.56	7.78	87.3
10/30/2007	21:15:00	12.6	327	8.56	7.90	88.5
10/30/2007	21:30:00	12.5	327	8.56	7.78	87.0
10/30/2007	21:45:00	12.4	327	8.55	7.90	88.2
10/30/2007	22:00:00	12.3	328	8.56	7.82	87.2
10/30/2007	22:15:00	12.3	327	8.56	7.66	85.3
10/30/2007	22:30:00	12.2	327	8.55	7.76	86.4
10/30/2007	22:45:00	12.2	329	8.55	7.75	86.2
10/30/2007	23:00:00	12.1	329	8.54	7.59	84.2
10/30/2007	23:15:00	12.1	329	8.55	7.69	85.3
10/30/2007	23:30:00	12.1	330	8.54	7.52	83.3
10/30/2007	23:45:00	12.0	331	8.54	7.58	83.9
10/31/2007	0:00:00	12.0	331	8.54	7.47	82.6
10/31/2007	0:15:00	11.9	330	8.52	7.72	85.3
10/31/2007	0:30:00	11.9	330	8.52	7.69	85.0
10/31/2007	0:45:00	11.9	331	8.52	7.58	83.6
10/31/2007	1:00:00	11.8	333	8.52	7.71	85.0
10/31/2007	1:15:00	11.8	333	8.50	7.93	87.4
10/31/2007	1:30:00	11.7	333	8.51	7.74	85.1
10/31/2007	1:45:00	11.7	333	8.52	7.67	84.3
10/31/2007	2:00:00	11.7	333	8.50	7.77	85.3
10/31/2007	2:15:00	11.6	333	8.51	7.70	84.5
10/31/2007	2:30:00	11.6	333	8.49	7.78	85.3
10/31/2007	2:45:00	11.6	333	8.50	7.74	84.9
10/31/2007	3:00:00	11.6	332	8.51	8.01	87.8
10/31/2007	3:15:00	11.5	332	8.50	7.81	85.6
10/31/2007	3:30:00	11.5	332	8.51	7.85	85.9
10/31/2007	3:45:00	11.4	331	8.51	7.74	84.6
10/31/2007	4:00:00	11.4	331	8.51	7.86	85.8
10/31/2007	4:15:00	11.3	331	8.52	7.77	84.7
10/31/2007	4:30:00	11.3	330	8.53	7.86	85.5
10/31/2007	4:45:00	11.2	329	8.53	7.88	85.6
10/31/2007	5:00:00	11.2	329	8.54	8.05	87.5
10/31/2007	5:15:00	11.1	328	8.56	7.92	86.0
10/31/2007	5:30:00	11.1	328	8.56	7.81	84.6
10/31/2007	5:45:00	11.0	328	8.58	7.80	84.4
10/31/2007	6:00:00	11.0	327	8.59	7.92	85.7
10/31/2007	6:15:00	11.0	326	8.61	7.92	85.6
10/31/2007	6:30:00	10.9	326	8.62	7.70	83.1
10/31/2007	6:45:00	10.9	325	8.63	7.90	85.3
10/31/2007	7:00:00	10.9	324	8.65	7.59	81.9
10/31/2007	7:15:00	10.8	323	8.66	8.01	86.4
10/31/2007	7:30:00	10.8	323	8.68	7.94	85.5

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	7:45:00	10.8	323	8.69	7.93	85.4
10/31/2007	8:00:00	10.8	322	8.70	7.99	86.0
10/31/2007	8:15:00	10.8	322	8.73	8.20	88.2
10/31/2007	8:30:00	10.8	322	8.74	8.04	86.5
10/31/2007	8:45:00	10.8	322	8.76	7.96	85.6
10/31/2007	9:00:00	10.8	322	8.78	8.07	86.9
10/31/2007	9:15:00	10.8	321	8.79	8.01	86.2
10/31/2007	9:30:00	10.8	321	8.80	8.00	86.2
10/31/2007	9:45:00	10.9	321	8.82	8.10	87.3
10/31/2007	10:00:00	10.9	321	8.84	8.12	87.7
10/31/2007	10:15:00	11.0	321	8.85	8.29	89.6
10/31/2007	10:30:00	11.1	321	8.86	8.38	90.8
10/31/2007	10:45:00	11.2	321	8.87	8.41	91.5
10/31/2007	11:00:00	11.4	321	8.88	8.42	91.8
10/31/2007	11:15:00	11.5	321	8.89	8.30	90.8
10/31/2007	11:30:00	11.7	321	8.89	8.38	92.1
10/31/2007	11:45:00	11.9	321	8.89	8.47	93.5
10/31/2007	12:00:00	12.1	321	8.89	8.37	92.8
10/31/2007	12:15:00	12.3	321	8.88	8.43	93.9
10/31/2007	12:30:00	12.6	321	8.88	8.28	92.8
10/31/2007	12:45:00	12.8	321	8.88	8.56	96.4
10/31/2007	13:00:00	13.0	321	8.87	8.39	95.0
10/31/2007	13:15:00	13.2	321	8.87	8.48	96.5
10/31/2007	13:30:00	13.4	321	8.85	8.58	98.1
10/31/2007	13:45:00	13.6	321	8.85	8.45	97.0
10/31/2007	14:00:00	13.8	322	8.84	8.42	96.9
10/31/2007	14:15:00	13.9	322	8.83	8.55	98.8
10/31/2007	14:30:00	14.1	322	8.82	8.50	98.5
10/31/2007	14:45:00	14.2	323	8.81	8.50	98.7
10/31/2007	15:00:00	14.3	323	8.80	8.33	96.9
10/31/2007	15:15:00	14.3	323	8.79	8.55	99.7
10/31/2007	15:30:00	14.4	324	8.78	8.35	97.4
10/31/2007	15:45:00	14.4	324	8.76	8.26	96.4
10/31/2007	16:00:00	14.4	324	8.75	8.38	97.8
10/31/2007	16:15:00	14.4	325	8.74	8.37	97.6
10/31/2007	16:30:00	14.3	325	8.72	8.35	97.3
10/31/2007	16:45:00	14.3	326	8.72	8.26	96.1
10/31/2007	17:00:00	14.2	328	8.70	8.26	95.9
10/31/2007	17:15:00	14.1	329	8.70	8.30	96.1
10/31/2007	17:30:00	13.9	330	8.68	8.09	93.5
10/31/2007	17:45:00	13.8	331	8.67	8.14	93.9
10/31/2007	18:00:00	13.7	332	8.66	8.24	94.8
10/31/2007	18:15:00	13.6	332	8.66	8.02	92.0
10/31/2007	18:30:00	13.5	332	8.65	8.05	92.1
10/31/2007	18:45:00	13.4	332	8.64	7.98	91.2
10/31/2007	19:00:00	13.3	333	8.64	8.04	91.6

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	19:15:00	13.2	334	8.63	8.03	91.3
10/31/2007	19:30:00	13.0	335	8.62	7.90	89.6
10/31/2007	19:45:00	12.9	334	8.62	8.00	90.4
10/31/2007	20:00:00	12.8	335	8.61	7.88	88.8
10/31/2007	20:15:00	12.7	336	8.62	8.07	90.7
10/31/2007	20:30:00	12.6	336	8.61	7.98	89.6
10/31/2007	20:45:00	12.5	336	8.60	7.78	87.1
10/31/2007	21:00:00	12.4	336	8.60	7.86	87.9
10/31/2007	21:15:00	12.4	335	8.59	7.99	89.1
10/31/2007	21:30:00	12.3	335	8.59	7.85	87.5
10/31/2007	21:45:00	12.2	335	8.59	7.87	87.5
10/31/2007	22:00:00	12.1	334	8.59	7.89	87.6
10/31/2007	22:15:00	12.1	335	8.58	7.88	87.3
10/31/2007	22:30:00	12.0	335	8.58	7.90	87.5
10/31/2007	22:45:00	12.0	335	8.58	7.74	85.6
10/31/2007	23:00:00	11.9	335	8.57	7.74	85.4
10/31/2007	23:15:00	11.8	336	8.56	7.76	85.5
10/31/2007	23:30:00	11.8	336	8.56	7.84	86.2
10/31/2007	23:45:00	11.7	336	8.56	8.02	88.2
11/1/2007	0:00:00	11.6	335	8.55	7.92	86.9
11/1/2007	0:15:00	11.6	334	8.55	7.98	87.5
11/1/2007	0:30:00	11.5	335	8.55	7.88	86.2
11/1/2007	0:45:00	11.5	335	8.53	7.87	86.0
11/1/2007	1:00:00	11.4	336	8.53	7.76	84.8
11/1/2007	1:15:00	11.3	336	8.53	7.91	86.3
11/1/2007	1:30:00	11.3	335	8.52	7.92	86.2
11/1/2007	1:45:00	11.2	334	8.52	8.01	87.1
11/1/2007	2:00:00	11.1	333	8.51	7.99	86.7
11/1/2007	2:15:00	11.1	333	8.50	7.94	86.0
11/1/2007	2:30:00	11.0	331	8.50	7.83	84.8
11/1/2007	2:45:00	11.0	331	8.50	8.01	86.6
11/1/2007	3:00:00	10.9	330	8.50	7.99	86.2
11/1/2007	3:15:00	10.8	330	8.49	8.19	88.2
11/1/2007	3:30:00	10.8	330	8.50	8.12	87.4
11/1/2007	3:45:00	10.7	330	8.50	7.93	85.2
11/1/2007	4:00:00	10.6	330	8.50	7.98	85.6
11/1/2007	4:15:00	10.6	330	8.50	7.99	85.6
11/1/2007	4:30:00	10.5	330	8.51	8.07	86.3
11/1/2007	4:45:00	10.5	329	8.52	7.92	84.5
11/1/2007	5:00:00	10.4	329	8.53	8.05	85.8
11/1/2007	5:15:00	10.3	329	8.54	8.02	85.2
11/1/2007	5:30:00	10.2	329	8.55	8.13	86.3
11/1/2007	5:45:00	10.1	328	8.56	7.92	84.0
11/1/2007	6:00:00	10.1	327	8.57	7.93	84.0
11/1/2007	6:15:00	10.0	327	8.58	8.22	86.8
11/1/2007	6:30:00	9.9	326	8.61	8.09	85.4

Table 5.40. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

11/1/2007	6:45:00	9.9	325	8.61	8.19	86.3
11/1/2007	7:00:00	9.8	325	8.63	8.24	86.7
11/1/2007	7:15:00	9.7	324	8.65	8.06	84.7
11/1/2007	7:30:00	9.7	323	8.67	8.18	85.8
11/1/2007	7:45:00	9.6	323	8.68	8.33	87.2
11/1/2007	8:00:00	9.6	322	8.70	8.28	86.6
11/1/2007	8:15:00	9.5	322	8.71	8.22	85.9
11/1/2007	8:30:00	9.5	321	8.74	8.25	86.2
11/1/2007	8:45:00	9.5	321	8.76	8.52	88.9

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Athena**
Log	**File**	**Name**	**:**	**Site2_10-26-07at**
Setup	**Date**	**(MMDDYY)**	**:**	**10/26/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**16:29:38**
Starting	**Date**	**(MMDDYY)**	**:**	**10/26/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**17:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**11/1/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**10:15:41**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/26/2007	17:00:00	16.79	8.63	106.3
10/26/2007	17:15:00	16.74	8.63	106.1
10/26/2007	17:30:00	16.64	8.63	106.0
10/26/2007	17:45:00	16.53	8.63	105.6
10/26/2007	18:00:00	16.40	8.58	104.7
10/26/2007	18:15:00	16.26	8.53	103.9
10/26/2007	18:30:00	16.11	8.48	102.9
10/26/2007	18:45:00	15.94	8.42	101.9
10/26/2007	19:00:00	15.76	8.37	100.9
10/26/2007	19:15:00	15.61	8.32	99.9
10/26/2007	19:30:00	15.45	8.26	98.9
10/26/2007	19:45:00	15.31	8.21	97.9
10/26/2007	20:00:00	15.14	8.15	96.9
10/26/2007	20:15:00	14.98	8.09	95.8
10/26/2007	20:30:00	14.84	8.03	94.8
10/26/2007	20:45:00	14.72	7.98	94.0
10/26/2007	21:00:00	14.56	7.93	93.0
10/26/2007	21:15:00	14.44	7.86	92.1
10/26/2007	21:30:00	14.34	7.79	91.0
10/26/2007	21:45:00	14.23	7.70	89.7
10/26/2007	22:00:00	14.13	7.62	88.6
10/26/2007	22:15:00	14.03	7.54	87.5
10/26/2007	22:30:00	13.92	7.46	86.4
10/26/2007	22:45:00	13.81	7.40	85.4
10/26/2007	23:00:00	13.69	7.33	84.4
10/26/2007	23:15:00	13.57	7.25	83.2
10/26/2007	23:30:00	13.47	7.18	82.2
10/26/2007	23:45:00	13.37	7.11	81.3
10/27/2007	0:00:00	13.23	7.04	80.2
10/27/2007	0:15:00	13.13	6.97	79.3
10/27/2007	0:30:00	13.02	6.91	78.3
10/27/2007	0:45:00	12.92	6.85	77.5
10/27/2007	1:00:00	12.79	6.81	76.8
10/27/2007	1:15:00	12.68	6.76	76.1
10/27/2007	1:30:00	12.55	6.71	75.3

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	1:45:00	12.43	6.67	74.6
10/27/2007	2:00:00	12.32	6.61	73.8
10/27/2007	2:15:00	12.20	6.55	73.0
10/27/2007	2:30:00	12.09	6.50	72.1
10/27/2007	2:45:00	11.97	6.45	71.4
10/27/2007	3:00:00	11.86	6.40	70.6
10/27/2007	3:15:00	11.73	6.34	69.8
10/27/2007	3:30:00	11.64	6.28	69.0
10/27/2007	3:45:00	11.52	6.23	68.3
10/27/2007	4:00:00	11.39	6.18	67.5
10/27/2007	4:15:00	11.31	6.12	66.8
10/27/2007	4:30:00	11.19	6.08	66.1
10/27/2007	4:45:00	11.11	6.03	65.5
10/27/2007	5:00:00	10.99	5.99	64.8
10/27/2007	5:15:00	10.89	5.93	64.1
10/27/2007	5:30:00	10.79	5.89	63.4
10/27/2007	5:45:00	10.70	5.85	62.8
10/27/2007	6:00:00	10.61	5.81	62.3
10/27/2007	6:15:00	10.52	5.77	61.8
10/27/2007	6:30:00	10.43	5.74	61.3
10/27/2007	6:45:00	10.35	5.71	60.9
10/27/2007	7:00:00	10.27	5.68	60.4
10/27/2007	7:15:00	10.18	5.65	60.0
10/27/2007	7:30:00	10.11	5.62	59.6
10/27/2007	7:45:00	10.04	5.59	59.2
10/27/2007	8:00:00	9.99	5.57	58.9
10/27/2007	8:15:00	9.94	5.55	58.6
10/27/2007	8:30:00	9.92	5.53	58.4
10/27/2007	8:45:00	9.92	5.54	58.4
10/27/2007	9:00:00	9.94	5.55	58.6
10/27/2007	9:15:00	10.00	5.56	58.8
10/27/2007	9:30:00	10.12	5.58	59.2
10/27/2007	9:45:00	10.28	5.61	59.7
10/27/2007	10:00:00	10.46	5.65	60.4
10/27/2007	10:15:00	10.66	5.72	61.4
10/27/2007	10:30:00	10.91	5.85	63.2
10/27/2007	10:45:00	11.16	6.02	65.4
10/27/2007	11:00:00	11.42	6.20	67.7
10/27/2007	11:15:00	11.74	6.37	70.2
10/27/2007	11:30:00	12.07	6.55	72.7
10/27/2007	11:45:00	12.40	6.71	75.0
10/27/2007	12:00:00	12.71	6.86	77.3
10/27/2007	12:15:00	13.06	7.01	79.5
10/27/2007	12:30:00	13.39	7.13	81.5
10/27/2007	12:45:00	13.71	7.22	83.1
10/27/2007	13:00:00	14.07	7.30	84.7

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	13:15:00	14.40	7.37	86.2
10/27/2007	13:30:00	14.71	7.42	87.4
10/27/2007	13:45:00	14.98	7.44	88.2
10/27/2007	14:00:00	15.27	7.43	88.6
10/27/2007	14:15:00	15.52	7.39	88.6
10/27/2007	14:30:00	15.77	7.33	88.3
10/27/2007	14:45:00	15.97	7.25	87.8
10/27/2007	15:00:00	16.18	7.15	87.0
10/27/2007	15:15:00	16.34	7.04	85.9
10/27/2007	15:30:00	16.44	6.93	84.7
10/27/2007	15:45:00	16.56	6.81	83.5
10/27/2007	16:00:00	16.64	6.69	82.1
10/27/2007	16:15:00	16.66	6.57	80.7
10/27/2007	16:30:00	16.66	6.45	79.2
10/27/2007	16:45:00	16.62	6.32	77.5
10/27/2007	17:00:00	16.58	6.19	75.9
10/27/2007	17:15:00	16.52	6.07	74.4
10/27/2007	17:30:00	16.47	5.96	72.9
10/27/2007	17:45:00	16.37	5.86	71.5
10/27/2007	18:00:00	16.26	5.75	70.0
10/27/2007	18:15:00	16.13	5.64	68.5
10/27/2007	18:30:00	16.01	5.54	67.1
10/27/2007	18:45:00	15.87	5.43	65.6
10/27/2007	19:00:00	15.73	5.33	64.2
10/27/2007	19:15:00	15.60	5.25	63.0
10/27/2007	19:30:00	15.50	5.19	62.2
10/27/2007	19:45:00	15.41	5.14	61.4
10/27/2007	20:00:00	15.31	5.09	60.8
10/27/2007	20:15:00	15.21	5.05	60.1
10/27/2007	20:30:00	15.09	5.01	59.5
10/27/2007	20:45:00	15.01	4.98	59.1
10/27/2007	21:00:00	14.89	4.96	58.6
10/27/2007	21:15:00	14.82	4.93	58.2
10/27/2007	21:30:00	14.73	4.91	57.9
10/27/2007	21:45:00	14.63	4.89	57.5
10/27/2007	22:00:00	14.54	4.87	57.2
10/27/2007	22:15:00	14.44	4.86	56.9
10/27/2007	22:30:00	14.34	4.85	56.6
10/27/2007	22:45:00	14.24	4.84	56.4
10/27/2007	23:00:00	14.12	4.84	56.3
10/27/2007	23:15:00	14.01	4.84	56.2
10/27/2007	23:30:00	13.90	4.85	56.1
10/27/2007	23:45:00	13.79	4.86	56.1
10/28/2007	0:00:00	13.67	4.87	56.0
10/28/2007	0:15:00	13.57	4.88	56.0
10/28/2007	0:30:00	13.44	4.89	56.0

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	0:45:00	13.32	4.90	56.0
10/28/2007	1:00:00	13.22	4.92	56.0
10/28/2007	1:15:00	13.09	4.94	56.1
10/28/2007	1:30:00	12.98	4.97	56.3
10/28/2007	1:45:00	12.84	4.99	56.3
10/28/2007	2:00:00	12.73	5.01	56.5
10/28/2007	2:15:00	12.61	5.04	56.6
10/28/2007	2:30:00	12.49	5.07	56.9
10/28/2007	2:45:00	12.37	5.11	57.1
10/28/2007	3:00:00	12.26	5.14	57.2
10/28/2007	3:15:00	12.13	5.17	57.4
10/28/2007	3:30:00	12.02	5.20	57.7
10/28/2007	3:45:00	11.92	5.23	57.8
10/28/2007	4:00:00	11.80	5.27	58.1
10/28/2007	4:15:00	11.70	5.30	58.3
10/28/2007	4:30:00	11.61	5.33	58.6
10/28/2007	4:45:00	11.49	5.37	58.8
10/28/2007	5:00:00	11.38	5.41	59.1
10/28/2007	5:15:00	11.28	5.44	59.3
10/28/2007	5:30:00	11.19	5.47	59.5
10/28/2007	5:45:00	11.11	5.51	59.8
10/28/2007	6:00:00	11.03	5.55	60.1
10/28/2007	6:15:00	10.98	5.58	60.4
10/28/2007	6:30:00	10.91	5.62	60.7
10/28/2007	6:45:00	10.84	5.65	61.0
10/28/2007	7:00:00	10.78	5.68	61.2
10/28/2007	7:15:00	10.73	5.72	61.5
10/28/2007	7:30:00	10.66	5.75	61.7
10/28/2007	7:45:00	10.61	5.78	62.0
10/28/2007	8:00:00	10.57	5.81	62.3
10/28/2007	8:15:00	10.53	5.85	62.6
10/28/2007	8:30:00	10.50	5.90	63.1
10/28/2007	8:45:00	10.49	5.96	63.7
10/28/2007	9:00:00	10.52	6.02	64.5
10/28/2007	9:15:00	10.56	6.09	65.2
10/28/2007	9:30:00	10.64	6.14	66.0
10/28/2007	9:45:00	10.78	6.19	66.7
10/28/2007	10:00:00	10.97	6.25	67.7
10/28/2007	10:15:00	11.15	6.35	69.0
10/28/2007	10:30:00	11.36	6.56	71.7
10/28/2007	10:45:00	11.59	6.83	74.9
10/28/2007	11:00:00	11.84	7.08	78.2
10/28/2007	11:15:00	12.11	7.34	81.5
10/28/2007	11:30:00	12.39	7.57	84.6
10/28/2007	11:45:00	12.69	7.78	87.5
10/28/2007	12:00:00	13.00	7.96	90.2

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	12:15:00	13.29	8.11	92.6
10/28/2007	12:30:00	13.61	8.24	94.7
10/28/2007	12:45:00	13.92	8.33	96.4
10/28/2007	13:00:00	14.22	8.40	97.8
10/28/2007	13:15:00	14.51	8.45	99.1
10/28/2007	13:30:00	14.81	8.48	100.1
10/28/2007	13:45:00	15.07	8.49	100.8
10/28/2007	14:00:00	15.32	8.47	101.1
10/28/2007	14:15:00	15.58	8.44	101.3
10/28/2007	14:30:00	15.81	8.39	101.1
10/28/2007	14:45:00	16.00	8.32	100.7
10/28/2007	15:00:00	16.18	8.21	99.8
10/28/2007	15:15:00	16.31	8.09	98.6
10/28/2007	15:30:00	16.43	7.95	97.2
10/28/2007	15:45:00	16.52	7.80	95.5
10/28/2007	16:00:00	16.60	7.65	93.8
10/28/2007	16:15:00	16.64	7.49	91.9
10/28/2007	16:30:00	16.67	7.32	89.9
10/28/2007	16:45:00	16.68	7.14	87.7
10/28/2007	17:00:00	16.65	6.96	85.5
10/28/2007	17:15:00	16.58	6.79	83.3
10/28/2007	17:30:00	16.52	6.60	80.9
10/28/2007	17:45:00	16.43	6.41	78.4
10/28/2007	18:00:00	16.32	6.23	75.9
10/28/2007	18:15:00	16.21	6.05	73.5
10/28/2007	18:30:00	16.08	5.87	71.2
10/28/2007	18:45:00	15.95	5.71	69.1
10/28/2007	19:00:00	15.82	5.56	67.1
10/28/2007	19:15:00	15.68	5.43	65.3
10/28/2007	19:30:00	15.55	5.31	63.7
10/28/2007	19:45:00	15.42	5.20	62.2
10/28/2007	20:00:00	15.30	5.11	61.0
10/28/2007	20:15:00	15.16	5.03	59.8
10/28/2007	20:30:00	15.02	4.97	58.9
10/28/2007	20:45:00	14.91	4.91	58.1
10/28/2007	21:00:00	14.81	4.86	57.3
10/28/2007	21:15:00	14.69	4.82	56.7
10/28/2007	21:30:00	14.59	4.78	56.1
10/28/2007	21:45:00	14.48	4.74	55.5
10/28/2007	22:00:00	14.37	4.71	55.1
10/28/2007	22:15:00	14.24	4.69	54.6
10/28/2007	22:30:00	14.13	4.67	54.3
10/28/2007	22:45:00	14.03	4.65	54.0
10/28/2007	23:00:00	13.91	4.65	53.8
10/28/2007	23:15:00	13.79	4.64	53.6
10/28/2007	23:30:00	13.68	4.64	53.4

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	23:45:00	13.57	4.65	53.3
10/29/2007	0:00:00	13.48	4.65	53.3
10/29/2007	0:15:00	13.34	4.67	53.3
10/29/2007	0:30:00	13.23	4.68	53.4
10/29/2007	0:45:00	13.11	4.70	53.4
10/29/2007	1:00:00	13.00	4.72	53.5
10/29/2007	1:15:00	12.88	4.74	53.6
10/29/2007	1:30:00	12.75	4.77	53.7
10/29/2007	1:45:00	12.64	4.79	53.9
10/29/2007	2:00:00	12.52	4.82	54.0
10/29/2007	2:15:00	12.39	4.85	54.2
10/29/2007	2:30:00	12.28	4.88	54.4
10/29/2007	2:45:00	12.16	4.91	54.6
10/29/2007	3:00:00	12.04	4.94	54.8
10/29/2007	3:15:00	11.93	4.97	55.0
10/29/2007	3:30:00	11.83	5.01	55.3
10/29/2007	3:45:00	11.73	5.04	55.5
10/29/2007	4:00:00	11.61	5.07	55.7
10/29/2007	4:15:00	11.52	5.11	56.0
10/29/2007	4:30:00	11.42	5.14	56.2
10/29/2007	4:45:00	11.31	5.18	56.5
10/29/2007	5:00:00	11.21	5.21	56.7
10/29/2007	5:15:00	11.14	5.25	57.0
10/29/2007	5:30:00	11.03	5.28	57.2
10/29/2007	5:45:00	10.94	5.32	57.5
10/29/2007	6:00:00	10.87	5.36	57.8
10/29/2007	6:15:00	10.79	5.39	58.0
10/29/2007	6:30:00	10.73	5.42	58.4
10/29/2007	6:45:00	10.64	5.46	58.6
10/29/2007	7:00:00	10.56	5.50	58.9
10/29/2007	7:15:00	10.49	5.53	59.2
10/29/2007	7:30:00	10.41	5.57	59.5
10/29/2007	7:45:00	10.34	5.61	59.8
10/29/2007	8:00:00	10.29	5.65	60.2
10/29/2007	8:15:00	10.25	5.69	60.6
10/29/2007	8:30:00	10.22	5.74	61.0
10/29/2007	8:45:00	10.19	5.81	61.7
10/29/2007	9:00:00	10.21	5.88	62.5
10/29/2007	9:15:00	10.24	5.96	63.3
10/29/2007	9:30:00	10.34	6.03	64.3
10/29/2007	9:45:00	10.49	6.10	65.2
10/29/2007	10:00:00	10.67	6.17	66.3
10/29/2007	10:15:00	10.90	6.27	67.7
10/29/2007	10:30:00	11.17	6.46	70.2
10/29/2007	10:45:00	11.39	6.70	73.2
10/29/2007	11:00:00	11.63	6.92	76.0

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	11:15:00	11.88	7.13	78.7
10/29/2007	11:30:00	12.20	7.33	81.6
10/29/2007	11:45:00	12.49	7.53	84.4
10/29/2007	12:00:00	12.83	7.76	87.6
10/29/2007	12:15:00	13.13	7.97	90.6
10/29/2007	12:30:00	13.45	8.17	93.6
10/29/2007	12:45:00	13.75	8.35	96.3
10/29/2007	13:00:00	14.06	8.49	98.5
10/29/2007	13:15:00	14.37	8.59	100.3
10/29/2007	13:30:00	14.66	8.66	101.9
10/29/2007	13:45:00	14.93	8.74	103.4
10/29/2007	14:00:00	15.20	8.78	104.5
10/29/2007	14:15:00	15.42	8.77	104.9
10/29/2007	14:30:00	15.65	8.74	105.0
10/29/2007	14:45:00	15.88	8.67	104.8
10/29/2007	15:00:00	16.14	8.62	104.6
10/29/2007	15:15:00	16.32	8.53	104.0
10/29/2007	15:30:00	16.47	8.42	103.0
10/29/2007	15:45:00	16.56	8.29	101.6
10/29/2007	16:00:00	16.63	8.14	99.9
10/29/2007	16:15:00	16.66	7.95	97.6
10/29/2007	16:30:00	16.68	7.75	95.3
10/29/2007	16:45:00	16.66	7.56	92.8
10/29/2007	17:00:00	16.56	7.35	90.0
10/29/2007	17:15:00	16.42	7.13	87.2
10/29/2007	17:30:00	16.30	6.91	84.3
10/29/2007	17:45:00	16.14	6.71	81.5
10/29/2007	18:00:00	15.97	6.49	78.5
10/29/2007	18:15:00	15.81	6.28	75.7
10/29/2007	18:30:00	15.67	6.08	73.1
10/29/2007	18:45:00	15.54	5.90	70.7
10/29/2007	19:00:00	15.38	5.73	68.5
10/29/2007	19:15:00	15.24	5.58	66.5
10/29/2007	19:30:00	15.09	5.44	64.6
10/29/2007	19:45:00	14.94	5.33	63.0
10/29/2007	20:00:00	14.79	5.22	61.6
10/29/2007	20:15:00	14.64	5.14	60.4
10/29/2007	20:30:00	14.52	5.06	59.3
10/29/2007	20:45:00	14.39	4.99	58.4
10/29/2007	21:00:00	14.28	4.93	57.5
10/29/2007	21:15:00	14.17	4.89	56.9
10/29/2007	21:30:00	14.06	4.84	56.2
10/29/2007	21:45:00	13.96	4.81	55.7
10/29/2007	22:00:00	13.86	4.78	55.2
10/29/2007	22:15:00	13.76	4.75	54.7
10/29/2007	22:30:00	13.67	4.72	54.3

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	22:45:00	13.58	4.70	54.0
10/29/2007	23:00:00	13.46	4.69	53.7
10/29/2007	23:15:00	13.33	4.67	53.3
10/29/2007	23:30:00	13.19	4.66	53.1
10/29/2007	23:45:00	13.08	4.66	52.9
10/30/2007	0:00:00	12.94	4.66	52.8
10/30/2007	0:15:00	12.81	4.67	52.7
10/30/2007	0:30:00	12.68	4.67	52.6
10/30/2007	0:45:00	12.56	4.68	52.5
10/30/2007	1:00:00	12.42	4.69	52.4
10/30/2007	1:15:00	12.30	4.70	52.5
10/30/2007	1:30:00	12.17	4.72	52.5
10/30/2007	1:45:00	12.05	4.74	52.6
10/30/2007	2:00:00	11.92	4.76	52.6
10/30/2007	2:15:00	11.79	4.78	52.7
10/30/2007	2:30:00	11.66	4.81	52.9
10/30/2007	2:45:00	11.54	4.84	53.1
10/30/2007	3:00:00	11.43	4.87	53.3
10/30/2007	3:15:00	11.32	4.90	53.5
10/30/2007	3:30:00	11.19	4.94	53.7
10/30/2007	3:45:00	11.07	4.97	53.9
10/30/2007	4:00:00	10.95	5.01	54.1
10/30/2007	4:15:00	10.83	5.04	54.4
10/30/2007	4:30:00	10.73	5.07	54.6
10/30/2007	4:45:00	10.61	5.11	54.8
10/30/2007	5:00:00	10.49	5.14	55.0
10/30/2007	5:15:00	10.39	5.18	55.3
10/30/2007	5:30:00	10.28	5.21	55.4
10/30/2007	5:45:00	10.18	5.24	55.6
10/30/2007	6:00:00	10.08	5.27	55.9
10/30/2007	6:15:00	9.98	5.31	56.1
10/30/2007	6:30:00	9.89	5.35	56.4
10/30/2007	6:45:00	9.81	5.39	56.7
10/30/2007	7:00:00	9.73	5.43	57.0
10/30/2007	7:15:00	9.64	5.47	57.3
10/30/2007	7:30:00	9.58	5.51	57.7
10/30/2007	7:45:00	9.52	5.55	58.1
10/30/2007	8:00:00	9.45	5.60	58.5
10/30/2007	8:15:00	9.41	5.66	59.0
10/30/2007	8:30:00	9.38	5.72	59.6
10/30/2007	8:45:00	9.38	5.80	60.5
10/30/2007	9:00:00	9.40	5.89	61.4
10/30/2007	9:15:00	9.46	5.98	62.4
10/30/2007	9:30:00	9.56	9.27	97.0
10/30/2007	9:45:00	9.71	9.27	97.4
10/30/2007	10:00:00	9.91	9.29	98.0

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	10:15:00	10.13	9.30	98.7
10/30/2007	10:30:00	10.39	9.33	99.5
10/30/2007	10:45:00	10.65	9.35	100.4
10/30/2007	11:00:00	10.93	9.37	101.3
10/30/2007	11:15:00	11.22	9.39	102.2
10/30/2007	11:30:00	11.53	9.41	103.2
10/30/2007	11:45:00	11.84	9.45	104.4
10/30/2007	12:00:00	12.16	9.49	105.6
10/30/2007	12:15:00	12.49	9.54	106.9
10/30/2007	12:30:00	12.80	9.57	108.0
10/30/2007	12:45:00	13.12	9.59	109.0
10/30/2007	13:00:00	13.42	9.56	109.4
10/30/2007	13:15:00	13.72	9.52	109.7
10/30/2007	13:30:00	13.98	9.49	110.0
10/30/2007	13:45:00	14.26	9.46	110.3
10/30/2007	14:00:00	14.47	9.43	110.5
10/30/2007	14:15:00	14.71	9.39	110.6
10/30/2007	14:30:00	14.92	9.35	110.6
10/30/2007	14:45:00	15.11	9.31	110.6
10/30/2007	15:00:00	15.32	9.26	110.5
10/30/2007	15:15:00	15.46	9.21	110.3
10/30/2007	15:30:00	15.59	9.16	109.9
10/30/2007	15:45:00	15.70	9.09	109.3
10/30/2007	16:00:00	15.77	9.01	108.6
10/30/2007	16:15:00	15.84	8.93	107.8
10/30/2007	16:30:00	15.87	8.84	106.8
10/30/2007	16:45:00	15.83	8.73	105.3
10/30/2007	17:00:00	15.77	8.62	103.8
10/30/2007	17:15:00	15.67	8.49	102.0
10/30/2007	17:30:00	15.56	8.34	100.1
10/30/2007	17:45:00	15.44	8.17	97.7
10/30/2007	18:00:00	15.32	8.02	95.7
10/30/2007	18:15:00	15.20	7.88	93.8
10/30/2007	18:30:00	15.06	7.75	92.0
10/30/2007	18:45:00	14.92	7.63	90.3
10/30/2007	19:00:00	14.78	7.53	88.7
10/30/2007	19:15:00	14.63	7.42	87.3
10/30/2007	19:30:00	14.51	7.33	85.9
10/30/2007	19:45:00	14.40	7.23	84.5
10/30/2007	20:00:00	14.28	7.14	83.3
10/30/2007	20:15:00	14.18	7.05	82.1
10/30/2007	20:30:00	14.06	6.97	80.9
10/30/2007	20:45:00	13.97	6.90	79.9
10/30/2007	21:00:00	13.88	6.82	78.9
10/30/2007	21:15:00	13.78	6.75	77.9
10/30/2007	21:30:00	13.67	6.69	76.9

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	21:45:00	13.57	6.64	76.2
10/30/2007	22:00:00	13.50	6.59	75.6
10/30/2007	22:15:00	13.42	6.55	75.0
10/30/2007	22:30:00	13.33	6.51	74.3
10/30/2007	22:45:00	13.24	6.47	73.7
10/30/2007	23:00:00	13.16	6.44	73.2
10/30/2007	23:15:00	13.09	6.41	72.8
10/30/2007	23:30:00	12.99	6.37	72.2
10/30/2007	23:45:00	12.92	6.35	71.9
10/31/2007	0:00:00	12.83	6.34	71.6
10/31/2007	0:15:00	12.74	6.33	71.3
10/31/2007	0:30:00	12.66	6.30	70.9
10/31/2007	0:45:00	12.56	6.27	70.4
10/31/2007	1:00:00	12.48	6.25	70.1
10/31/2007	1:15:00	12.39	6.23	69.7
10/31/2007	1:30:00	12.28	6.22	69.4
10/31/2007	1:45:00	12.19	6.22	69.3
10/31/2007	2:00:00	12.09	6.23	69.2
10/31/2007	2:15:00	12.02	6.22	69.0
10/31/2007	2:30:00	11.92	6.21	68.6
10/31/2007	2:45:00	11.82	6.19	68.3
10/31/2007	3:00:00	11.72	6.17	67.9
10/31/2007	3:15:00	11.62	6.15	67.6
10/31/2007	3:30:00	11.52	6.13	67.2
10/31/2007	3:45:00	11.41	6.10	66.7
10/31/2007	4:00:00	11.31	6.08	66.3
10/31/2007	4:15:00	11.21	6.06	65.9
10/31/2007	4:30:00	11.11	6.03	65.5
10/31/2007	4:45:00	11.02	6.01	65.1
10/31/2007	5:00:00	10.93	5.99	64.8
10/31/2007	5:15:00	10.83	5.98	64.5
10/31/2007	5:30:00	10.73	5.98	64.3
10/31/2007	5:45:00	10.64	5.99	64.3
10/31/2007	6:00:00	10.54	6.00	64.3
10/31/2007	6:15:00	10.46	6.02	64.4
10/31/2007	6:30:00	10.37	6.04	64.5
10/31/2007	6:45:00	10.32	6.07	64.7
10/31/2007	7:00:00	10.24	6.09	64.8
10/31/2007	7:15:00	10.15	6.12	65.0
10/31/2007	7:30:00	10.08	6.15	65.2
10/31/2007	7:45:00	10.03	6.18	65.4
10/31/2007	8:00:00	9.97	6.22	65.7
10/31/2007	8:15:00	9.93	6.27	66.2
10/31/2007	8:30:00	9.92	6.34	66.9
10/31/2007	8:45:00	9.92	6.42	67.8
10/31/2007	9:00:00	9.94	6.53	68.9

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	9:15:00	9.99	6.65	70.3
10/31/2007	9:30:00	10.09	6.77	71.7
10/31/2007	9:45:00	10.17	6.88	73.0
10/31/2007	10:00:00	10.32	7.00	74.6
10/31/2007	10:15:00	10.49	7.15	76.4
10/31/2007	10:30:00	10.69	7.31	78.5
10/31/2007	10:45:00	10.92	7.46	80.6
10/31/2007	11:00:00	11.17	7.61	82.7
10/31/2007	11:15:00	11.48	7.74	84.8
10/31/2007	11:30:00	11.84	7.88	87.0
10/31/2007	11:45:00	12.23	8.00	89.1
10/31/2007	12:00:00	12.53	8.04	90.2
10/31/2007	12:15:00	12.73	8.04	90.6
10/31/2007	12:30:00	13.03	8.03	91.1
10/31/2007	12:45:00	13.33	8.06	92.0
10/31/2007	13:00:00	13.67	8.06	92.7
10/31/2007	13:15:00	13.97	8.03	93.0
10/31/2007	13:30:00	14.18	7.98	92.9
10/31/2007	13:45:00	14.39	7.92	92.6
10/31/2007	14:00:00	14.56	7.84	92.0
10/31/2007	14:15:00	14.78	7.73	91.1
10/31/2007	14:30:00	14.96	7.58	89.8
10/31/2007	14:45:00	15.08	7.44	88.3
10/31/2007	15:00:00	15.24	7.30	87.0
10/31/2007	15:15:00	15.34	7.17	85.6
10/31/2007	15:30:00	15.37	7.05	84.1
10/31/2007	15:45:00	15.41	6.94	82.9
10/31/2007	16:00:00	15.42	6.84	81.8
10/31/2007	16:15:00	15.44	6.75	80.8
10/31/2007	16:30:00	15.44	6.67	79.8
10/31/2007	16:45:00	15.40	6.60	78.9
10/31/2007	17:00:00	15.33	6.54	78.1
10/31/2007	17:15:00	15.28	6.48	77.3
10/31/2007	17:30:00	15.23	6.42	76.5
10/31/2007	17:45:00	15.16	6.36	75.6
10/31/2007	18:00:00	15.05	6.30	74.8
10/31/2007	18:15:00	14.93	6.25	74.0
10/31/2007	18:30:00	14.83	6.20	73.2
10/31/2007	18:45:00	14.72	6.16	72.6
10/31/2007	19:00:00	14.60	6.13	72.0
10/31/2007	19:15:00	14.46	6.10	71.4
10/31/2007	19:30:00	14.33	6.07	70.9
10/31/2007	19:45:00	14.22	6.05	70.4
10/31/2007	20:00:00	14.12	6.02	70.0
10/31/2007	20:15:00	13.98	5.99	69.4
10/31/2007	20:30:00	13.88	5.97	69.0

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	20:45:00	13.79	5.93	68.5
10/31/2007	21:00:00	13.74	5.90	68.0
10/31/2007	21:15:00	13.69	5.87	67.6
10/31/2007	21:30:00	13.62	5.85	67.2
10/31/2007	21:45:00	13.58	5.82	66.9
10/31/2007	22:00:00	13.50	5.81	66.6
10/31/2007	22:15:00	13.46	5.80	66.4
10/31/2007	22:30:00	13.43	5.78	66.2
10/31/2007	22:45:00	13.38	5.77	65.9
10/31/2007	23:00:00	13.37	5.75	65.7
10/31/2007	23:15:00	13.32	5.74	65.5
10/31/2007	23:30:00	13.26	5.72	65.2
10/31/2007	23:45:00	13.20	5.70	64.9
11/1/2007	0:00:00	13.11	5.69	64.7
11/1/2007	0:15:00	13.04	5.68	64.4
11/1/2007	0:30:00	12.96	5.67	64.2
11/1/2007	0:45:00	12.88	5.66	63.9
11/1/2007	1:00:00	12.80	5.65	63.8
11/1/2007	1:15:00	12.69	5.66	63.7
11/1/2007	1:30:00	12.63	5.67	63.7
11/1/2007	1:45:00	12.57	5.68	63.7
11/1/2007	2:00:00	12.47	5.69	63.7
11/1/2007	2:15:00	12.38	5.70	63.7
11/1/2007	2:30:00	12.31	5.71	63.8
11/1/2007	2:45:00	12.21	5.73	63.8
11/1/2007	3:00:00	12.14	5.75	63.9
11/1/2007	3:15:00	12.06	5.77	64.0
11/1/2007	3:30:00	11.98	5.79	64.1
11/1/2007	3:45:00	11.88	5.81	64.2
11/1/2007	4:00:00	11.79	5.83	64.3
11/1/2007	4:15:00	11.69	5.86	64.4
11/1/2007	4:30:00	11.60	5.88	64.5
11/1/2007	4:45:00	11.52	5.90	64.6
11/1/2007	5:00:00	11.43	5.92	64.8
11/1/2007	5:15:00	11.32	5.95	64.9
11/1/2007	5:30:00	11.23	5.98	65.0
11/1/2007	5:45:00	11.16	6.00	65.2
11/1/2007	6:00:00	11.09	6.03	65.4
11/1/2007	6:15:00	11.02	6.05	65.5
11/1/2007	6:30:00	10.91	6.08	65.6
11/1/2007	6:45:00	10.84	6.10	65.9
11/1/2007	7:00:00	10.79	6.13	66.1
11/1/2007	7:15:00	10.71	6.16	66.2
11/1/2007	7:30:00	10.63	6.19	66.4
11/1/2007	7:45:00	10.56	6.21	66.6
11/1/2007	8:00:00	10.51	6.24	66.8

Table 5.41. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

11/1/2007	8:15:00	10.45	6.28	67.1
11/1/2007	8:30:00	10.41	6.32	67.5
11/1/2007	8:45:00	10.38	6.38	68.1
11/1/2007	9:00:00	10.37	6.43	68.6
11/1/2007	9:15:00	10.40	6.48	69.2
11/1/2007	9:30:00	10.45	6.53	69.8
11/1/2007	9:45:00	10.54	6.58	70.4

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**Part of SITE4-10-22-07**
Setup	**Date**	**(MMDDYY)**	**:**	**10/18/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**160310**
Starting	**Date**	**(MMDDYY)**	**:**	**10/22/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**130000**
Stopping	**Date**	**(MMDDYY)**	**:**	**11/2/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
10/26/2007	16:45:00	16.8	335	8.66	7.53	92.5
10/26/2007	17:00:00	16.7	334	8.68	7.36	90.1
10/26/2007	17:15:00	16.6	334	8.70	7.31	89.5
10/26/2007	17:30:00	16.5	334	8.71	7.34	89.6
10/26/2007	17:45:00	16.4	333	8.72	7.30	89.0
10/26/2007	18:00:00	16.3	332	8.73	7.25	88.0
10/26/2007	18:15:00	16.1	330	8.74	7.28	88.2
10/26/2007	18:30:00	16.0	330	8.75	7.18	86.7
10/26/2007	18:45:00	15.8	329	8.76	7.25	87.2
10/26/2007	19:00:00	15.6	328	8.76	7.10	85.1
10/26/2007	19:15:00	15.5	328	8.76	7.16	85.6
10/26/2007	19:30:00	15.3	328	8.76	7.18	85.5
10/26/2007	19:45:00	15.2	329	8.77	7.18	85.2
10/26/2007	20:00:00	15.0	328	8.76	7.12	84.1
10/26/2007	20:15:00	14.9	328	8.76	7.12	84.0
10/26/2007	20:30:00	14.7	327	8.76	7.10	83.4
10/26/2007	20:45:00	14.6	324	8.75	6.97	81.7
10/26/2007	21:00:00	14.4	324	8.75	7.00	81.7
10/26/2007	21:15:00	14.3	322	8.74	7.11	82.8
10/26/2007	21:30:00	14.2	320	8.73	7.03	81.7
10/26/2007	21:45:00	14.1	317	8.73	7.12	82.5
10/26/2007	22:00:00	14.0	313	8.72	7.03	81.3
10/26/2007	22:15:00	13.9	309	8.70	7.09	81.8
10/26/2007	22:30:00	13.8	305	8.69	7.02	80.8
10/26/2007	22:45:00	13.7	301	8.68	7.08	81.3
10/26/2007	23:00:00	13.6	296	8.67	7.06	80.9
10/26/2007	23:15:00	13.4	292	8.66	7.06	80.7
10/26/2007	23:30:00	13.3	285	8.65	7.08	80.7
10/26/2007	23:45:00	13.2	276	8.64	7.01	79.8
10/27/2007	0:00:00	13.1	268	8.62	7.18	81.4
10/27/2007	0:15:00	13.0	263	8.61	7.08	80.1
10/27/2007	0:30:00	12.9	262	8.60	6.91	78.0
10/27/2007	0:45:00	12.8	248	8.59	7.15	80.4

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	1:00:00	12.7	243	8.58	7.08	79.5
10/27/2007	1:15:00	12.5	239	8.56	7.19	80.5
10/27/2007	1:30:00	12.4	235	8.56	7.20	80.4
10/27/2007	1:45:00	12.3	232	8.55	7.17	79.9
10/27/2007	2:00:00	12.2	229	8.54	7.23	80.3
10/27/2007	2:15:00	12.1	225	8.53	7.14	79.1
10/27/2007	2:30:00	12.0	220	8.52	7.25	80.2
10/27/2007	2:45:00	11.8	217	8.52	7.33	80.8
10/27/2007	3:00:00	11.7	213	8.51	7.24	79.6
10/27/2007	3:15:00	11.6	211	8.50	7.27	79.7
10/27/2007	3:30:00	11.5	207	8.50	7.36	80.5
10/27/2007	3:45:00	11.4	203	8.50	7.32	79.9
10/27/2007	4:00:00	11.3	200	8.49	7.38	80.3
10/27/2007	4:15:00	11.2	198	8.48	7.40	80.3
10/27/2007	4:30:00	11.1	198	8.48	7.34	79.5
10/27/2007	4:45:00	11.0	195	8.47	7.44	80.4
10/27/2007	5:00:00	10.9	194	8.47	7.43	80.1
10/27/2007	5:15:00	10.8	194	8.47	7.50	80.6
10/27/2007	5:30:00	10.7	192	8.47	7.48	80.2
10/27/2007	5:45:00	10.6	189	8.47	7.51	80.3
10/27/2007	6:00:00	10.5	188	8.46	7.49	80.0
10/27/2007	6:15:00	10.4	188	8.46	7.48	79.7
10/27/2007	6:30:00	10.3	186	8.46	7.46	79.4
10/27/2007	6:45:00	10.2	184	8.46	7.55	80.1
10/27/2007	7:00:00	10.1	186	8.46	7.68	81.4
10/27/2007	7:15:00	10.1	182	8.46	7.61	80.5
10/27/2007	7:30:00	10.0	184	8.46	7.72	81.5
10/27/2007	7:45:00	9.9	182	8.45	7.60	80.1
10/27/2007	8:00:00	9.9	182	8.45	7.68	80.8
10/27/2007	8:15:00	9.8	180	8.45	7.69	80.8
10/27/2007	8:30:00	9.8	179	8.45	7.69	80.8
10/27/2007	8:45:00	9.8	178	8.45	7.80	81.9
10/27/2007	9:00:00	9.8	178	8.45	7.81	82.1
10/27/2007	9:15:00	9.9	177	8.45	7.80	82.1
10/27/2007	9:30:00	10.0	177	8.45	7.80	82.3
10/27/2007	9:45:00	10.1	177	8.45	7.67	81.2
10/27/2007	10:00:00	10.3	176	8.45	7.80	83.0
10/27/2007	10:15:00	10.5	176	8.46	7.89	84.3
10/27/2007	10:30:00	10.7	175	8.46	7.74	83.1
10/27/2007	10:45:00	11.0	175	8.46	7.81	84.4
10/27/2007	11:00:00	11.3	175	8.47	7.86	85.5
10/27/2007	11:15:00	11.6	175	8.47	7.62	83.5
10/27/2007	11:30:00	11.9	175	8.47	7.80	86.0
10/27/2007	11:45:00	12.2	175	8.48	7.63	84.8
10/27/2007	12:00:00	12.5	175	8.48	7.55	84.5
10/27/2007	12:15:00	12.9	175	8.48	7.40	83.5

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	12:30:00	13.2	175	8.50	7.72	87.7
10/27/2007	12:45:00	13.6	175	8.50	7.22	82.7
10/27/2007	13:00:00	13.9	175	8.50	7.38	85.1
10/27/2007	13:15:00	14.2	175	8.51	7.67	89.1
10/27/2007	13:30:00	14.5	175	8.52	7.67	89.7
10/27/2007	13:45:00	14.8	175	8.55	7.46	87.8
10/27/2007	14:00:00	15.1	175	8.55	7.73	91.5
10/27/2007	14:15:00	15.4	174	8.55	7.50	89.3
10/27/2007	14:30:00	15.6	174	8.56	7.63	91.4
10/27/2007	14:45:00	15.8	174	8.59	7.56	90.9
10/27/2007	15:00:00	16.0	174	8.60	7.54	91.1
10/27/2007	15:15:00	16.2	174	8.60	7.47	90.6
10/27/2007	15:30:00	16.3	174	8.63	7.57	92.0
10/27/2007	15:45:00	16.4	174	8.66	7.55	91.9
10/27/2007	16:00:00	16.5	174	8.69	7.51	91.6
10/27/2007	16:15:00	16.5	174	8.69	7.14	87.2
10/27/2007	16:30:00	16.5	174	8.69	7.24	88.4
10/27/2007	16:45:00	16.5	173	8.69	7.14	87.1
10/27/2007	17:00:00	16.4	173	8.70	7.29	88.8
10/27/2007	17:15:00	16.4	173	8.70	7.19	87.5
10/27/2007	17:30:00	16.3	173	8.70	7.28	88.5
10/27/2007	17:45:00	16.2	173	8.71	7.30	88.6
10/27/2007	18:00:00	16.1	172	8.71	7.23	87.6
10/27/2007	18:15:00	16.0	172	8.70	7.11	85.8
10/27/2007	18:30:00	15.9	172	8.66	7.22	86.9
10/27/2007	18:45:00	15.7	170	8.66	7.09	85.1
10/27/2007	19:00:00	15.6	170	8.67	7.21	86.3
10/27/2007	19:15:00	15.5	170	8.68	7.15	85.3
10/27/2007	19:30:00	15.4	169	8.68	6.75	80.4
10/27/2007	19:45:00	15.3	168	8.69	7.14	84.9
10/27/2007	20:00:00	15.2	168	8.69	6.96	82.6
10/27/2007	20:15:00	15.1	167	8.68	6.98	82.6
10/27/2007	20:30:00	15.0	167	8.67	7.08	83.6
10/27/2007	20:45:00	14.9	167	8.66	6.87	80.9
10/27/2007	21:00:00	14.8	166	8.64	7.02	82.5
10/27/2007	21:15:00	14.7	166	8.63	6.98	81.9
10/27/2007	21:30:00	14.6	166	8.61	6.91	81.0
10/27/2007	21:45:00	14.5	166	8.60	6.98	81.6
10/27/2007	22:00:00	14.4	166	8.58	6.89	80.3
10/27/2007	22:15:00	14.3	166	8.57	6.98	81.2
10/27/2007	22:30:00	14.2	165	8.55	6.88	79.9
10/27/2007	22:45:00	14.1	165	8.54	7.01	81.3
10/27/2007	23:00:00	14.0	165	8.53	6.84	79.0
10/27/2007	23:15:00	13.9	165	8.52	6.94	80.1
10/27/2007	23:30:00	13.8	165	8.52	6.93	79.7
10/27/2007	23:45:00	13.7	165	8.51	6.98	80.1

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	0:00:00	13.5	165	8.50	6.96	79.6
10/28/2007	0:15:00	13.4	165	8.49	7.01	80.0
10/28/2007	0:30:00	13.3	165	8.47	6.68	76.0
10/28/2007	0:45:00	13.2	165	8.46	6.86	77.9
10/28/2007	1:00:00	13.1	165	8.46	6.96	78.9
10/28/2007	1:15:00	13.0	165	8.46	7.03	79.5
10/28/2007	1:30:00	12.8	165	8.45	7.08	79.8
10/28/2007	1:45:00	12.7	165	8.43	6.80	76.4
10/28/2007	2:00:00	12.6	165	8.43	6.89	77.2
10/28/2007	2:15:00	12.5	165	8.43	6.85	76.6
10/28/2007	2:30:00	12.4	165	8.43	7.15	79.7
10/28/2007	2:45:00	12.2	165	8.43	7.07	78.6
10/28/2007	3:00:00	12.1	164	8.43	6.82	75.6
10/28/2007	3:15:00	12.0	165	8.43	6.95	76.8
10/28/2007	3:30:00	11.9	164	8.42	6.75	74.4
10/28/2007	3:45:00	11.8	164	8.42	6.79	74.7
10/28/2007	4:00:00	11.7	164	8.43	7.26	79.6
10/28/2007	4:15:00	11.6	164	8.42	6.75	74.0
10/28/2007	4:30:00	11.5	164	8.41	6.81	74.5
10/28/2007	4:45:00	11.4	164	8.41	6.77	73.8
10/28/2007	5:00:00	11.3	164	8.40	7.21	78.4
10/28/2007	5:15:00	11.2	164	8.40	6.66	72.2
10/28/2007	5:30:00	11.1	164	8.40	6.65	72.0
10/28/2007	5:45:00	11.0	164	8.39	6.68	72.2
10/28/2007	6:00:00	10.9	164	8.39	6.68	72.1
10/28/2007	6:15:00	10.8	164	8.40	7.18	77.3
10/28/2007	6:30:00	10.8	164	8.40	7.02	75.5
10/28/2007	6:45:00	10.7	164	8.40	7.20	77.2
10/28/2007	7:00:00	10.6	164	8.40	7.42	79.5
10/28/2007	7:15:00	10.6	164	8.39	6.83	73.1
10/28/2007	7:30:00	10.5	164	8.38	7.36	78.7
10/28/2007	7:45:00	10.5	163	8.38	6.71	71.7
10/28/2007	8:00:00	10.4	164	8.36	6.80	72.5
10/28/2007	8:15:00	10.4	163	8.36	6.59	70.2
10/28/2007	8:30:00	10.4	163	8.35	6.94	73.9
10/28/2007	8:45:00	10.4	163	8.35	7.14	76.0
10/28/2007	9:00:00	10.4	163	8.35	6.80	72.4
10/28/2007	9:15:00	10.4	163	8.35	7.04	75.1
10/28/2007	9:30:00	10.5	163	8.36	7.08	75.6
10/28/2007	9:45:00	10.6	163	8.36	6.50	69.6
10/28/2007	10:00:00	10.8	163	8.36	6.77	72.8
10/28/2007	10:15:00	11.0	163	8.36	7.61	82.3
10/28/2007	10:30:00	11.2	163	8.36	6.86	74.5
10/28/2007	10:45:00	11.4	163	8.36	7.03	76.7
10/28/2007	11:00:00	11.7	163	8.36	7.62	83.7
10/28/2007	11:15:00	11.9	163	8.36	7.06	78.0

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	11:30:00	12.2	163	8.38	7.07	78.6
10/28/2007	11:45:00	12.5	163	8.38	7.23	80.9
10/28/2007	12:00:00	12.8	163	8.39	6.69	75.3
10/28/2007	12:15:00	13.1	163	8.39	6.97	79.1
10/28/2007	12:30:00	13.4	164	8.39	7.14	81.5
10/28/2007	12:45:00	13.7	164	8.41	6.64	76.3
10/28/2007	13:00:00	14.0	164	8.41	6.71	77.7
10/28/2007	13:15:00	14.3	164	8.42	6.80	79.2
10/28/2007	13:30:00	14.6	165	8.42	7.19	84.3
10/28/2007	13:45:00	14.9	165	8.42	6.46	76.1
10/28/2007	14:00:00	15.1	165	8.43	6.76	80.2
10/28/2007	14:15:00	15.4	165	8.45	6.61	78.8
10/28/2007	14:30:00	15.6	166	8.44	7.37	88.3
10/28/2007	14:45:00	15.8	166	8.45	6.84	82.2
10/28/2007	15:00:00	16.0	166	8.46	6.53	78.9
10/28/2007	15:15:00	16.2	166	8.43	7.29	88.3
10/28/2007	15:30:00	16.3	166	8.46	7.05	85.6
10/28/2007	15:45:00	16.4	166	8.50	6.52	79.3
10/28/2007	16:00:00	16.4	166	8.50	6.74	82.2
10/28/2007	16:15:00	16.5	166	8.51	7.17	87.5
10/28/2007	16:30:00	16.5	166	8.54	6.95	84.8
10/28/2007	16:45:00	16.5	166	8.53	6.29	76.8
10/28/2007	17:00:00	16.5	166	8.57	5.98	72.9
10/28/2007	17:15:00	16.4	166	8.57	5.98	72.8
10/28/2007	17:30:00	16.4	166	8.57	5.93	72.2
10/28/2007	17:45:00	16.3	166	8.57	6.28	76.2
10/28/2007	18:00:00	16.2	166	8.57	6.91	83.7
10/28/2007	18:15:00	16.1	166	8.59	6.28	76.0
10/28/2007	18:30:00	16.0	165	8.58	5.61	67.6
10/28/2007	18:45:00	15.8	165	8.58	5.55	66.8
10/28/2007	19:00:00	15.7	165	8.58	6.13	73.5
10/28/2007	19:15:00	15.6	165	8.58	5.46	65.2
10/28/2007	19:30:00	15.4	165	8.56	5.48	65.4
10/28/2007	19:45:00	15.3	165	8.56	5.66	67.3
10/28/2007	20:00:00	15.2	165	8.56	5.86	69.5
10/28/2007	20:15:00	15.0	165	8.51	5.48	64.8
10/28/2007	20:30:00	14.9	165	8.52	5.23	61.6
10/28/2007	20:45:00	14.8	165	8.52	5.72	67.3
10/28/2007	21:00:00	14.7	165	8.50	5.45	64.0
10/28/2007	21:15:00	14.6	165	8.48	5.30	62.1
10/28/2007	21:30:00	14.4	165	8.44	5.17	60.4
10/28/2007	21:45:00	14.3	165	8.35	4.58	53.4
10/28/2007	22:00:00	14.2	165	8.27	4.85	56.4
10/28/2007	22:15:00	14.1	165	8.35	4.91	57.0
10/28/2007	22:30:00	14.0	165	8.22	5.26	60.8
10/28/2007	22:45:00	13.9	165	8.25	4.54	52.3

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	23:00:00	13.8	165	8.22	5.20	59.8
10/28/2007	23:15:00	13.7	165	8.29	4.23	48.5
10/28/2007	23:30:00	13.6	165	8.31	4.15	47.5
10/28/2007	23:45:00	13.4	165	8.20	4.71	53.8
10/29/2007	0:00:00	13.3	166	8.21	3.99	45.4
10/29/2007	0:15:00	13.2	166	8.17	4.17	47.4
10/29/2007	0:30:00	13.1	166	8.18	4.08	46.2
10/29/2007	0:45:00	13.0	166	8.14	4.22	47.7
10/29/2007	1:00:00	12.9	166	8.16	4.69	52.9
10/29/2007	1:15:00	12.7	166	8.16	4.07	45.8
10/29/2007	1:30:00	12.6	167	8.20	4.09	45.9
10/29/2007	1:45:00	12.5	167	8.18	4.21	47.1
10/29/2007	2:00:00	12.4	167	8.13	4.02	44.8
10/29/2007	2:15:00	12.3	167	8.15	4.19	46.6
10/29/2007	2:30:00	12.2	167	8.13	4.38	48.6
10/29/2007	2:45:00	12.0	167	8.11	4.13	45.7
10/29/2007	3:00:00	11.9	167	8.16	4.18	46.2
10/29/2007	3:15:00	11.8	167	8.17	4.01	44.2
10/29/2007	3:30:00	11.7	167	8.13	4.12	45.3
10/29/2007	3:45:00	11.6	167	8.10	3.95	43.3
10/29/2007	4:00:00	11.5	167	8.10	4.13	45.1
10/29/2007	4:15:00	11.4	167	8.11	4.28	46.7
10/29/2007	4:30:00	11.3	166	8.13	4.27	46.5
10/29/2007	4:45:00	11.2	166	8.21	4.08	44.2
10/29/2007	5:00:00	11.1	166	8.11	4.29	46.4
10/29/2007	5:15:00	11.0	166	8.14	4.23	45.7
10/29/2007	5:30:00	10.9	166	8.14	4.01	43.2
10/29/2007	5:45:00	10.8	165	8.08	4.13	44.4
10/29/2007	6:00:00	10.8	165	8.07	4.32	46.4
10/29/2007	6:15:00	10.7	165	8.07	4.39	47.1
10/29/2007	6:30:00	10.6	165	8.08	4.22	45.2
10/29/2007	6:45:00	10.5	165	8.07	4.54	48.5
10/29/2007	7:00:00	10.4	165	8.06	4.28	45.7
10/29/2007	7:15:00	10.4	164	8.07	4.50	47.9
10/29/2007	7:30:00	10.3	164	8.07	4.03	42.9
10/29/2007	7:45:00	10.2	164	8.04	4.60	48.8
10/29/2007	8:00:00	10.2	163	8.08	4.51	47.9
10/29/2007	8:15:00	10.1	163	8.08	4.59	48.6
10/29/2007	8:30:00	10.1	163	8.06	4.61	48.7
10/29/2007	8:45:00	10.1	163	8.03	4.81	50.8
10/29/2007	9:00:00	10.1	162	8.04	4.89	51.7
10/29/2007	9:15:00	10.1	162	8.03	4.77	50.5
10/29/2007	9:30:00	10.2	162	8.17	4.28	45.4
10/29/2007	9:45:00	10.3	162	8.19	4.34	46.2
10/29/2007	10:00:00	10.5	162	8.12	4.28	45.8
10/29/2007	10:15:00	10.7	163	8.06	4.40	47.2

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	10:30:00	11.0	163	8.05	4.57	49.4
10/29/2007	10:45:00	11.2	163	8.05	4.36	47.3
10/29/2007	11:00:00	11.5	163	8.07	4.41	48.1
10/29/2007	11:15:00	11.7	163	8.07	4.27	47.0
10/29/2007	11:30:00	12.0	164	8.05	4.28	47.4
10/29/2007	11:45:00	12.3	164	8.05	4.22	47.0
10/29/2007	12:00:00	12.7	164	8.04	4.22	47.3
10/29/2007	12:15:00	12.9	165	8.04	4.41	49.8
10/29/2007	12:30:00	13.3	165	8.04	4.26	48.5
10/29/2007	12:45:00	13.6	165	8.07	4.28	49.1
10/29/2007	13:00:00	13.9	165	8.09	4.19	48.3
10/29/2007	13:15:00	14.2	165	8.14	4.03	46.8
10/29/2007	13:30:00	14.5	166	8.13	4.03	47.2
10/29/2007	13:45:00	14.7	166	8.18	4.04	47.5
10/29/2007	14:00:00	15.0	166	8.03	4.31	50.9
10/29/2007	14:15:00	15.3	166	8.02	3.98	47.3
10/29/2007	14:30:00	15.5	166	8.01	3.98	47.5
10/29/2007	14:45:00	15.7	166	8.03	4.04	48.5
10/29/2007	15:00:00	16.0	166	8.00	4.45	53.7
10/29/2007	15:15:00	16.2	166	7.99	4.35	52.7
10/29/2007	15:30:00	16.3	166	7.99	3.98	48.4
10/29/2007	15:45:00	16.4	166	8.02	4.16	50.6
10/29/2007	16:00:00	16.5	165	8.04	4.04	49.3
10/29/2007	16:15:00	16.5	165	7.99	4.17	51.0
10/29/2007	16:30:00	16.5	165	8.00	3.79	46.3
10/29/2007	16:45:00	16.5	165	7.96	4.15	50.7
10/29/2007	17:00:00	16.4	165	8.04	3.62	44.1
10/29/2007	17:15:00	16.3	165	7.94	4.24	51.5
10/29/2007	17:30:00	16.2	165	7.95	3.81	46.2
10/29/2007	17:45:00	16.0	164	7.96	4.10	49.5
10/29/2007	18:00:00	15.8	164	7.98	3.88	46.7
10/29/2007	18:15:00	15.7	164	7.98	3.88	46.5
10/29/2007	18:30:00	15.5	164	8.02	3.83	45.8
10/29/2007	18:45:00	15.4	164	8.03	3.62	43.2
10/29/2007	19:00:00	15.2	163	7.99	3.70	43.9
10/29/2007	19:15:00	15.1	163	7.96	3.69	43.7
10/29/2007	19:30:00	15.0	163	7.96	3.56	42.1
10/29/2007	19:45:00	14.8	163	7.96	3.63	42.7
10/29/2007	20:00:00	14.7	163	7.98	3.75	44.0
10/29/2007	20:15:00	14.5	163	8.00	3.67	42.9
10/29/2007	20:30:00	14.4	162	8.00	3.72	43.4
10/29/2007	20:45:00	14.3	162	8.03	3.47	40.4
10/29/2007	21:00:00	14.1	162	8.05	3.46	40.2
10/29/2007	21:15:00	14.0	162	8.06	3.52	40.8
10/29/2007	21:30:00	13.9	162	8.11	3.43	39.6
10/29/2007	21:45:00	13.8	162	7.97	3.58	41.2

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	22:00:00	13.7	162	8.00	3.56	41.0
10/29/2007	22:15:00	13.6	162	7.95	3.52	40.4
10/29/2007	22:30:00	13.5	162	7.97	3.49	40.0
10/29/2007	22:45:00	13.4	162	7.98	3.70	42.3
10/29/2007	23:00:00	13.3	162	8.03	3.47	39.6
10/29/2007	23:15:00	13.2	163	8.04	3.41	38.7
10/29/2007	23:30:00	13.1	163	8.00	3.44	38.9
10/29/2007	23:45:00	12.9	163	8.03	3.54	40.0
10/30/2007	0:00:00	12.8	163	8.08	3.26	36.7
10/30/2007	0:15:00	12.7	163	7.99	3.29	37.0
10/30/2007	0:30:00	12.6	163	8.11	3.45	38.6
10/30/2007	0:45:00	12.4	163	8.10	3.31	37.0
10/30/2007	1:00:00	12.3	163	7.96	3.33	37.0
10/30/2007	1:15:00	12.2	163	7.96	3.50	38.8
10/30/2007	1:30:00	12.1	163	7.96	3.47	38.5
10/30/2007	1:45:00	11.9	163	7.96	3.49	38.5
10/30/2007	2:00:00	11.8	163	7.98	3.40	37.4
10/30/2007	2:15:00	11.7	163	7.98	3.45	37.9
10/30/2007	2:30:00	11.5	163	7.99	3.45	37.8
10/30/2007	2:45:00	11.4	163	7.99	3.45	37.7
10/30/2007	3:00:00	11.3	163	7.99	3.47	37.7
10/30/2007	3:15:00	11.2	163	7.98	3.48	37.8
10/30/2007	3:30:00	11.1	163	7.98	3.49	37.8
10/30/2007	3:45:00	11.0	163	7.95	3.42	36.9
10/30/2007	4:00:00	10.8	163	7.95	3.46	37.3
10/30/2007	4:15:00	10.7	163	7.95	3.26	35.0
10/30/2007	4:30:00	10.6	163	7.96	3.42	36.6
10/30/2007	4:45:00	10.5	162	7.96	3.53	37.7
10/30/2007	5:00:00	10.4	162	7.97	3.59	38.2
10/30/2007	5:15:00	10.3	162	7.94	3.53	37.5
10/30/2007	5:30:00	10.2	162	7.93	3.66	38.8
10/30/2007	5:45:00	10.1	162	7.93	3.64	38.5
10/30/2007	6:00:00	10.0	161	7.93	3.64	38.4
10/30/2007	6:15:00	9.9	161	7.92	3.69	38.8
10/30/2007	6:30:00	9.8	161	7.92	3.65	38.3
10/30/2007	6:45:00	9.7	161	7.92	3.57	37.4
10/30/2007	7:00:00	9.6	160	7.93	3.55	37.1
10/30/2007	7:15:00	9.5	160	7.96	3.53	36.8
10/30/2007	7:30:00	9.5	160	7.93	3.52	36.6
10/30/2007	7:45:00	9.4	160	7.93	3.48	36.2
10/30/2007	8:00:00	9.3	160	7.92	3.52	36.6
10/30/2007	8:15:00	9.3	160	7.95	3.51	36.5
10/30/2007	8:30:00	9.3	160	7.91	3.59	37.3
10/30/2007	8:45:00	9.2	160	7.91	3.53	36.6
10/30/2007	9:00:00	9.3	159	7.91	3.48	36.1
10/30/2007	9:15:00	9.3	159	7.90	3.59	37.3

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	9:30:00	9.4	318	8.50	7.78	81.1
10/30/2007	9:45:00	9.6	319	8.51	7.84	82.0
10/30/2007	10:00:00	9.8	319	8.51	7.84	82.4
10/30/2007	10:15:00	10.0	320	8.51	7.84	82.8
10/30/2007	10:30:00	10.2	321	8.51	7.92	84.2
10/30/2007	10:45:00	10.5	321	8.52	7.86	84.0
10/30/2007	11:00:00	10.8	322	8.52	7.79	83.8
10/30/2007	11:15:00	11.1	324	8.52	7.78	84.3
10/30/2007	11:30:00	11.4	325	8.53	7.68	83.7
10/30/2007	11:45:00	11.7	326	8.53	7.67	84.2
10/30/2007	12:00:00	12.0	326	8.54	7.64	84.6
10/30/2007	12:15:00	12.3	325	8.55	7.50	83.5
10/30/2007	12:30:00	12.6	325	8.56	7.69	86.3
10/30/2007	12:45:00	12.9	325	8.57	7.71	87.1
10/30/2007	13:00:00	13.2	324	8.58	7.67	87.3
10/30/2007	13:15:00	13.5	324	8.59	7.61	87.2
10/30/2007	13:30:00	13.8	323	8.60	7.61	87.7
10/30/2007	13:45:00	14.1	322	8.61	7.57	87.7
10/30/2007	14:00:00	14.3	321	8.63	7.56	88.1
10/30/2007	14:15:00	14.5	320	8.63	7.48	87.6
10/30/2007	14:30:00	14.8	319	8.65	7.51	88.4
10/30/2007	14:45:00	15.0	319	8.66	7.46	88.1
10/30/2007	15:00:00	15.1	319	8.67	7.30	86.6
10/30/2007	15:15:00	15.3	319	8.69	7.45	88.7
10/30/2007	15:30:00	15.4	319	8.70	7.38	88.1
10/30/2007	15:45:00	15.6	318	8.72	7.39	88.5
10/30/2007	16:00:00	15.6	318	8.72	7.30	87.5
10/30/2007	16:15:00	15.7	318	8.74	7.24	86.9
10/30/2007	16:30:00	15.7	317	8.75	7.25	87.0
10/30/2007	16:45:00	15.7	317	8.75	7.21	86.5
10/30/2007	17:00:00	15.6	316	8.76	7.21	86.4
10/30/2007	17:15:00	15.5	316	8.78	7.31	87.4
10/30/2007	17:30:00	15.4	316	8.78	7.25	86.5
10/30/2007	17:45:00	15.3	315	8.79	7.22	86.0
10/30/2007	18:00:00	15.2	314	8.79	7.15	84.9
10/30/2007	18:15:00	15.1	314	8.79	7.12	84.2
10/30/2007	18:30:00	14.9	313	8.79	7.12	84.1
10/30/2007	18:45:00	14.8	313	8.79	7.21	84.9
10/30/2007	19:00:00	14.6	312	8.79	7.19	84.3
10/30/2007	19:15:00	14.5	311	8.78	7.13	83.4
10/30/2007	19:30:00	14.4	311	8.77	7.05	82.3
10/30/2007	19:45:00	14.3	312	8.77	7.05	82.1
10/30/2007	20:00:00	14.1	311	8.76	7.00	81.3
10/30/2007	20:15:00	14.0	311	8.74	7.06	81.8
10/30/2007	20:30:00	13.9	311	8.73	6.99	80.8
10/30/2007	20:45:00	13.8	311	8.72	6.96	80.3

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	21:00:00	13.7	311	8.71	6.93	79.7
10/30/2007	21:15:00	13.6	311	8.69	6.96	79.9
10/30/2007	21:30:00	13.5	312	8.68	6.97	79.9
10/30/2007	21:45:00	13.4	311	8.66	6.87	78.5
10/30/2007	22:00:00	13.4	312	8.64	6.79	77.5
10/30/2007	22:15:00	13.3	313	8.63	6.99	79.6
10/30/2007	22:30:00	13.2	313	8.62	7.01	79.7
10/30/2007	22:45:00	13.1	313	8.60	6.98	79.2
10/30/2007	23:00:00	13.0	314	8.58	6.89	78.0
10/30/2007	23:15:00	12.9	314	8.56	6.89	77.9
10/30/2007	23:30:00	12.9	315	8.55	6.92	78.1
10/30/2007	23:45:00	12.8	315	8.53	7.04	79.2
10/31/2007	0:00:00	12.7	315	8.52	6.91	77.7
10/31/2007	0:15:00	12.6	314	8.51	7.05	79.1
10/31/2007	0:30:00	12.5	314	8.49	7.05	78.9
10/31/2007	0:45:00	12.4	314	8.48	7.08	79.1
10/31/2007	1:00:00	12.3	314	8.47	7.15	79.8
10/31/2007	1:15:00	12.2	314	8.47	7.18	79.9
10/31/2007	1:30:00	12.1	315	8.46	7.17	79.6
10/31/2007	1:45:00	12.1	315	8.45	7.10	78.6
10/31/2007	2:00:00	12.0	316	8.44	7.03	77.8
10/31/2007	2:15:00	11.9	316	8.43	7.07	78.0
10/31/2007	2:30:00	11.8	317	8.43	7.01	77.2
10/31/2007	2:45:00	11.7	317	8.42	7.02	77.1
10/31/2007	3:00:00	11.6	318	8.41	7.06	77.4
10/31/2007	3:15:00	11.5	318	8.41	7.02	76.7
10/31/2007	3:30:00	11.4	318	8.41	7.05	76.9
10/31/2007	3:45:00	11.3	318	8.40	7.01	76.3
10/31/2007	4:00:00	11.2	318	8.40	7.00	76.1
10/31/2007	4:15:00	11.1	318	8.40	7.06	76.5
10/31/2007	4:30:00	11.0	318	8.40	7.01	75.8
10/31/2007	4:45:00	10.9	317	8.39	7.11	76.7
10/31/2007	5:00:00	10.8	316	8.39	7.11	76.5
10/31/2007	5:15:00	10.7	316	8.40	7.15	76.8
10/31/2007	5:30:00	10.6	316	8.39	7.13	76.4
10/31/2007	5:45:00	10.5	315	8.39	7.17	76.6
10/31/2007	6:00:00	10.4	315	8.39	7.14	76.2
10/31/2007	6:15:00	10.3	314	8.38	7.21	76.7
10/31/2007	6:30:00	10.3	314	8.38	7.16	76.1
10/31/2007	6:45:00	10.2	314	8.38	7.21	76.5
10/31/2007	7:00:00	10.1	314	8.38	7.28	77.1
10/31/2007	7:15:00	10.0	314	8.38	7.29	77.1
10/31/2007	7:30:00	10.0	314	8.37	7.28	76.9
10/31/2007	7:45:00	9.9	314	8.37	7.35	77.4
10/31/2007	8:00:00	9.8	313	8.37	7.38	77.7
10/31/2007	8:15:00	9.8	313	8.37	7.42	78.1

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	8:30:00	9.8	313	8.37	7.41	77.9
10/31/2007	8:45:00	9.8	313	8.37	7.45	78.3
10/31/2007	9:00:00	9.8	314	8.37	7.40	77.8
10/31/2007	9:15:00	9.9	314	8.37	7.46	78.5
10/31/2007	9:30:00	9.9	314	8.38	7.45	78.6
10/31/2007	9:45:00	10.0	315	8.37	7.36	77.8
10/31/2007	10:00:00	10.2	315	8.38	7.42	78.6
10/31/2007	10:15:00	10.3	316	8.38	7.37	78.5
10/31/2007	10:30:00	10.5	317	8.38	7.39	79.1
10/31/2007	10:45:00	10.7	318	8.38	7.40	79.5
10/31/2007	11:00:00	11.0	321	8.38	7.43	80.4
10/31/2007	11:15:00	11.3	325	8.38	7.33	79.8
10/31/2007	11:30:00	11.7	329	8.37	7.33	80.5
10/31/2007	11:45:00	12.1	333	8.36	7.27	80.6
10/31/2007	12:00:00	12.4	335	8.36	7.32	81.6
10/31/2007	12:15:00	12.6	336	8.35	7.30	81.8
10/31/2007	12:30:00	12.9	337	8.35	7.30	82.3
10/31/2007	12:45:00	13.2	338	8.34	7.26	82.4
10/31/2007	13:00:00	13.5	339	8.35	7.25	83.0
10/31/2007	13:15:00	13.8	340	8.34	7.25	83.5
10/31/2007	13:30:00	14.0	341	8.34	7.25	83.9
10/31/2007	13:45:00	14.2	341	8.34	7.33	85.2
10/31/2007	14:00:00	14.4	342	8.35	7.24	84.5
10/31/2007	14:15:00	14.6	346	8.34	7.25	85.0
10/31/2007	14:30:00	14.8	349	8.34	7.22	85.0
10/31/2007	14:45:00	14.9	351	8.34	7.18	84.8
10/31/2007	15:00:00	15.1	352	8.34	7.07	83.8
10/31/2007	15:15:00	15.2	352	8.35	6.92	82.2
10/31/2007	15:30:00	15.2	352	8.36	6.61	78.5
10/31/2007	15:45:00	15.2	352	8.37	6.58	78.3
10/31/2007	16:00:00	15.3	351	8.38	6.46	76.9
10/31/2007	16:15:00	15.3	351	8.39	6.43	76.5
10/31/2007	16:30:00	15.3	350	8.40	6.57	78.2
10/31/2007	16:45:00	15.3	349	8.40	6.61	78.6
10/31/2007	17:00:00	15.2	348	8.42	6.62	78.6
10/31/2007	17:15:00	15.1	348	8.43	6.69	79.4
10/31/2007	17:30:00	15.1	347	8.44	6.55	77.7
10/31/2007	17:45:00	15.0	347	8.45	6.50	76.9
10/31/2007	18:00:00	14.9	347	8.46	6.28	74.1
10/31/2007	18:15:00	14.8	346	8.47	6.12	72.1
10/31/2007	18:30:00	14.7	346	8.48	5.92	69.5
10/31/2007	18:45:00	14.6	345	8.48	5.68	66.6
10/31/2007	19:00:00	14.5	344	8.49	5.39	62.9
10/31/2007	19:15:00	14.3	345	8.49	5.48	63.9
10/31/2007	19:30:00	14.2	344	8.50	5.37	62.4
10/31/2007	19:45:00	14.1	344	8.50	5.36	62.2

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	20:00:00	14.0	345	8.49	5.36	62.0
10/31/2007	20:15:00	13.9	345	8.49	5.24	60.5
10/31/2007	20:30:00	13.7	345	8.50	5.18	59.6
10/31/2007	20:45:00	13.7	344	8.49	5.13	58.9
10/31/2007	21:00:00	13.6	344	8.48	4.99	57.2
10/31/2007	21:15:00	13.5	345	8.48	5.00	57.3
10/31/2007	21:30:00	13.5	345	8.47	4.91	56.2
10/31/2007	21:45:00	13.4	345	8.46	4.96	56.7
10/31/2007	22:00:00	13.4	346	8.46	4.91	56.0
10/31/2007	22:15:00	13.3	346	8.45	4.75	54.2
10/31/2007	22:30:00	13.3	346	8.44	4.36	49.6
10/31/2007	22:45:00	13.2	346	8.43	4.06	46.2
10/31/2007	23:00:00	13.2	347	8.42	3.83	43.5
10/31/2007	23:15:00	13.2	346	8.40	3.52	39.9
10/31/2007	23:30:00	13.1	344	8.38	3.12	35.4
10/31/2007	23:45:00	13.1	340	8.37	3.04	34.5
11/1/2007	0:00:00	13.0	340	8.35	2.93	33.2
11/1/2007	0:15:00	12.9	340	8.35	2.64	29.8
11/1/2007	0:30:00	12.8	342	8.34	2.54	28.6
11/1/2007	0:45:00	12.7	342	8.33	2.52	28.4
11/1/2007	1:00:00	12.7	342	8.32	2.51	28.1
11/1/2007	1:15:00	12.6	343	8.31	2.45	27.5
11/1/2007	1:30:00	12.5	344	8.30	2.48	27.8
11/1/2007	1:45:00	12.4	345	8.29	2.46	27.5
11/1/2007	2:00:00	12.3	343	8.31	2.48	27.7
11/1/2007	2:15:00	12.3	330	8.30	2.45	27.2
11/1/2007	2:30:00	12.2	325	8.26	2.33	25.9
11/1/2007	2:45:00	12.1	316	8.25	2.29	25.4
11/1/2007	3:00:00	12.0	319	8.25	2.12	23.5
11/1/2007	3:15:00	11.9	321	8.24	1.93	21.4
11/1/2007	3:30:00	11.8	335	8.24	1.73	19.1
11/1/2007	3:45:00	11.7	342	8.24	1.67	18.4
11/1/2007	4:00:00	11.7	324	8.24	1.38	15.2
11/1/2007	4:15:00	11.6	314	8.22	1.26	13.8
11/1/2007	4:30:00	11.5	315	8.21	1.34	14.7
11/1/2007	4:45:00	11.4	311	8.20	1.39	15.2
11/1/2007	5:00:00	11.3	307	8.20	1.40	15.2
11/1/2007	5:15:00	11.2	301	8.20	1.44	15.6
11/1/2007	5:30:00	11.1	296	8.19	1.37	14.8
11/1/2007	5:45:00	11.0	293	8.19	1.31	14.2
11/1/2007	6:00:00	11.0	284	8.19	1.20	13.0
11/1/2007	6:15:00	10.9	279	8.19	1.07	11.5
11/1/2007	6:30:00	10.8	275	8.19	0.89	9.6
11/1/2007	6:45:00	10.7	271	8.19	0.78	8.4
11/1/2007	7:00:00	10.6	271	8.18	0.73	7.8
11/1/2007	7:15:00	10.6	269	8.18	0.68	7.3

Table 5.42. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

11/1/2007	7:30:00	10.5	267	8.18	0.60	6.4
11/1/2007	7:45:00	10.4	266	8.18	0.55	5.9
11/1/2007	8:00:00	10.4	263	8.18	0.48	5.1
11/1/2007	8:15:00	10.3	262	8.18	0.45	4.8
11/1/2007	8:30:00	10.3	260	8.18	0.45	4.8
11/1/2007	8:45:00	10.2	257	8.18	0.44	4.7
11/1/2007	9:00:00	10.2	253	8.17	0.43	4.6
11/1/2007	9:15:00	10.2	253	8.17	0.42	4.5
11/1/2007	9:30:00	10.3	252	8.17	0.40	4.2
11/1/2007	9:45:00	10.4	251	8.15	0.38	4.0

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45473**	**Name**	**:**	**Nike**
Log	**File**	**Name**	**:**	**Site3_10-26-07Ni**
Setup	**Date**	**(MMDDYY)**	**:**	**10/26/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**13:26:29**
Starting	**Date**	**(MMDDYY)**	**:**	**10/26/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**14:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**11/1/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**11:56:51**
Measurement	**Interval**	**(HHMMSS)**	**:**	**900**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/26/2007	14:45:00	20.41	7.83	103.2
10/26/2007	15:00:00	20.57	7.78	102.9
10/26/2007	15:15:00	20.72	7.76	102.9
10/26/2007	15:30:00	20.78	7.72	102.5
10/26/2007	15:45:00	20.84	7.69	102.2
10/26/2007	16:00:00	20.80	7.62	101.2
10/26/2007	16:15:00	20.78	7.59	100.9
10/26/2007	16:30:00	20.66	7.55	100.1
10/26/2007	16:45:00	20.52	7.50	99.1
10/26/2007	17:00:00	20.38	7.47	98.4
10/26/2007	17:15:00	20.21	7.42	97.4
10/26/2007	17:30:00	20.00	7.40	96.7
10/26/2007	17:45:00	19.82	7.35	95.7
10/26/2007	18:00:00	19.62	7.31	94.8
10/26/2007	18:15:00	19.46	7.26	93.9
10/26/2007	18:30:00	19.26	7.21	92.9
10/26/2007	18:45:00	19.07	7.16	91.9
10/26/2007	19:00:00	18.88	7.11	90.9
10/26/2007	19:15:00	18.76	7.08	90.3
10/26/2007	19:30:00	18.61	7.06	89.7
10/26/2007	19:45:00	18.46	7.05	89.3
10/26/2007	20:00:00	18.28	7.04	88.8
10/26/2007	20:15:00	18.13	7.04	88.6
10/26/2007	20:30:00	17.92	7.05	88.3
10/26/2007	20:45:00	17.73	7.06	88.1
10/26/2007	21:00:00	17.54	7.07	87.9
10/26/2007	21:15:00	17.34	7.08	87.6
10/26/2007	21:30:00	17.19	7.10	87.6
10/26/2007	21:45:00	17.02	7.12	87.5
10/26/2007	22:00:00	16.89	7.13	87.4
10/26/2007	22:15:00	16.76	7.15	87.4
10/26/2007	22:30:00	16.62	7.16	87.3
10/26/2007	22:45:00	16.49	7.18	87.3
10/26/2007	23:00:00	16.39	7.20	87.4

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/26/2007	23:15:00	16.23	7.23	87.4
10/26/2007	23:30:00	16.08	7.25	87.4
10/26/2007	23:45:00	15.93	7.28	87.5
10/27/2007	0:00:00	15.82	7.31	87.6
10/27/2007	0:15:00	15.70	7.33	87.7
10/27/2007	0:30:00	15.54	7.36	87.7
10/27/2007	0:45:00	15.41	7.38	87.7
10/27/2007	1:00:00	15.26	7.40	87.7
10/27/2007	1:15:00	15.14	7.43	87.7
10/27/2007	1:30:00	15.02	7.46	87.8
10/27/2007	1:45:00	14.89	7.48	87.9
10/27/2007	2:00:00	14.77	7.51	87.9
10/27/2007	2:15:00	14.66	7.54	88.1
10/27/2007	2:30:00	14.56	7.56	88.2
10/27/2007	2:45:00	14.46	7.59	88.3
10/27/2007	3:00:00	14.36	7.62	88.4
10/27/2007	3:15:00	14.27	7.64	88.5
10/27/2007	3:30:00	14.13	7.67	88.6
10/27/2007	3:45:00	14.01	7.69	88.6
10/27/2007	4:00:00	13.87	7.73	88.8
10/27/2007	4:15:00	13.71	7.77	88.9
10/27/2007	4:30:00	13.56	7.81	89.0
10/27/2007	4:45:00	13.41	7.84	89.1
10/27/2007	5:00:00	13.30	7.87	89.2
10/27/2007	5:15:00	13.17	7.89	89.2
10/27/2007	5:30:00	13.06	7.92	89.3
10/27/2007	5:45:00	13.01	7.94	89.4
10/27/2007	6:00:00	13.00	7.97	89.8
10/27/2007	6:15:00	12.96	8.00	90.0
10/27/2007	6:30:00	12.88	8.03	90.2
10/27/2007	6:45:00	12.76	8.06	90.3
10/27/2007	7:00:00	12.61	8.09	90.4
10/27/2007	7:15:00	12.46	8.13	90.5
10/27/2007	7:30:00	12.35	8.17	90.7
10/27/2007	7:45:00	12.21	8.21	90.8
10/27/2007	8:00:00	12.09	8.26	91.2
10/27/2007	8:15:00	12.03	8.32	91.6
10/27/2007	8:30:00	12.04	8.37	92.3
10/27/2007	8:45:00	12.12	8.42	93.0
10/27/2007	9:00:00	12.27	8.46	93.7
10/27/2007	9:15:00	12.44	8.49	94.5
10/27/2007	9:30:00	12.68	8.53	95.4
10/27/2007	9:45:00	12.92	8.56	96.2
10/27/2007	10:00:00	13.23	8.58	97.2
10/27/2007	10:15:00	13.58	8.59	98.1

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	10:30:00	13.94	8.60	98.9
10/27/2007	10:45:00	14.38	8.60	99.8
10/27/2007	11:00:00	14.75	8.59	100.5
10/27/2007	11:15:00	15.18	8.57	101.3
10/27/2007	11:30:00	15.58	8.57	102.2
10/27/2007	11:45:00	15.98	8.55	102.8
10/27/2007	12:00:00	16.46	8.53	103.6
10/27/2007	12:15:00	16.89	8.52	104.5
10/27/2007	12:30:00	17.36	8.49	105.1
10/27/2007	12:45:00	17.74	8.44	105.4
10/27/2007	13:00:00	18.11	8.40	105.7
10/27/2007	13:15:00	18.44	8.37	106.0
10/27/2007	13:30:00	18.73	8.32	105.9
10/27/2007	13:45:00	18.96	8.29	106.1
10/27/2007	14:00:00	19.17	8.27	106.3
10/27/2007	14:15:00	19.38	8.25	106.6
10/27/2007	14:30:00	19.63	8.24	106.9
10/27/2007	14:45:00	19.82	8.20	106.8
10/27/2007	15:00:00	20.04	8.18	107.1
10/27/2007	15:15:00	20.19	8.16	107.0
10/27/2007	15:30:00	20.35	8.12	106.9
10/27/2007	15:45:00	20.38	8.10	106.8
10/27/2007	16:00:00	20.36	8.06	106.1
10/27/2007	16:15:00	20.31	8.04	105.7
10/27/2007	16:30:00	20.19	8.00	104.9
10/27/2007	16:45:00	20.11	7.97	104.4
10/27/2007	17:00:00	20.03	7.95	104.0
10/27/2007	17:15:00	19.92	7.90	103.1
10/27/2007	17:30:00	19.77	7.85	102.2
10/27/2007	17:45:00	19.61	7.79	101.1
10/27/2007	18:00:00	19.47	7.72	99.8
10/27/2007	18:15:00	19.28	7.65	98.5
10/27/2007	18:30:00	19.05	7.57	97.1
10/27/2007	18:45:00	18.78	7.50	95.6
10/27/2007	19:00:00	18.52	7.44	94.4
10/27/2007	19:15:00	18.28	7.40	93.4
10/27/2007	19:30:00	18.08	7.36	92.5
10/27/2007	19:45:00	17.89	7.34	91.9
10/27/2007	20:00:00	17.77	7.32	91.4
10/27/2007	20:15:00	17.63	7.30	90.9
10/27/2007	20:30:00	17.50	7.29	90.6
10/27/2007	20:45:00	17.38	7.29	90.3
10/27/2007	21:00:00	17.27	7.30	90.2
10/27/2007	21:15:00	17.17	7.30	90.0
10/27/2007	21:30:00	17.11	7.31	90.0

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	21:45:00	17.02	7.32	90.0
10/27/2007	22:00:00	16.89	7.34	90.0
10/27/2007	22:15:00	16.75	7.37	90.1
10/27/2007	22:30:00	16.62	7.40	90.2
10/27/2007	22:45:00	16.52	7.41	90.2
10/27/2007	23:00:00	16.42	7.44	90.3
10/27/2007	23:15:00	16.31	7.47	90.5
10/27/2007	23:30:00	16.09	7.49	90.3
10/27/2007	23:45:00	15.87	7.52	90.2
10/28/2007	0:00:00	15.73	7.56	90.4
10/28/2007	0:15:00	15.64	7.59	90.6
10/28/2007	0:30:00	15.54	7.61	90.7
10/28/2007	0:45:00	15.44	7.64	90.8
10/28/2007	1:00:00	15.32	7.66	90.8
10/28/2007	1:15:00	15.24	7.67	90.8
10/28/2007	1:30:00	15.19	7.69	91.0
10/28/2007	1:45:00	15.14	7.70	91.0
10/28/2007	2:00:00	15.09	7.72	91.1
10/28/2007	2:15:00	15.02	7.73	91.1
10/28/2007	2:30:00	14.96	7.75	91.2
10/28/2007	2:45:00	14.89	7.76	91.2
10/28/2007	3:00:00	14.80	7.78	91.2
10/28/2007	3:15:00	14.69	7.80	91.3
10/28/2007	3:30:00	14.61	7.83	91.4
10/28/2007	3:45:00	14.51	7.85	91.5
10/28/2007	4:00:00	14.40	7.88	91.6
10/28/2007	4:15:00	14.26	7.91	91.7
10/28/2007	4:30:00	14.16	7.94	91.8
10/28/2007	4:45:00	14.07	7.97	92.0
10/28/2007	5:00:00	13.98	8.00	92.1
10/28/2007	5:15:00	13.88	8.03	92.2
10/28/2007	5:30:00	13.75	8.05	92.2
10/28/2007	5:45:00	13.61	8.09	92.4
10/28/2007	6:00:00	13.46	8.12	92.4
10/28/2007	6:15:00	13.30	8.17	92.6
10/28/2007	6:30:00	13.19	8.21	92.8
10/28/2007	6:45:00	13.07	8.24	92.9
10/28/2007	7:00:00	12.94	8.27	93.0
10/28/2007	7:15:00	12.81	8.30	93.1
10/28/2007	7:30:00	12.66	8.35	93.3
10/28/2007	7:45:00	12.51	8.39	93.4
10/28/2007	8:00:00	12.39	8.44	93.8
10/28/2007	8:15:00	12.28	8.50	94.2
10/28/2007	8:30:00	12.24	8.58	95.0
10/28/2007	8:45:00	12.23	8.67	96.0

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	9:00:00	12.36	8.73	97.0
10/28/2007	9:15:00	12.57	8.79	98.0
10/28/2007	9:30:00	12.78	8.84	99.1
10/28/2007	9:45:00	13.01	8.90	100.2
10/28/2007	10:00:00	13.26	8.95	101.5
10/28/2007	10:15:00	13.53	9.00	102.6
10/28/2007	10:30:00	13.84	9.04	103.7
10/28/2007	10:45:00	14.17	9.05	104.6
10/28/2007	11:00:00	14.58	9.07	105.8
10/28/2007	11:15:00	14.96	9.08	106.8
10/28/2007	11:30:00	15.37	9.08	107.8
10/28/2007	11:45:00	15.73	9.07	108.5
10/28/2007	12:00:00	16.09	9.08	109.5
10/28/2007	12:15:00	16.46	9.05	109.9
10/28/2007	12:30:00	16.84	9.04	110.7
10/28/2007	12:45:00	17.21	9.03	111.4
10/28/2007	13:00:00	17.62	9.00	112.1
10/28/2007	13:15:00	17.97	8.96	112.4
10/28/2007	13:30:00	18.36	8.96	113.3
10/28/2007	13:45:00	18.68	8.92	113.5
10/28/2007	14:00:00	18.96	8.91	114.0
10/28/2007	14:15:00	19.26	8.86	114.1
10/28/2007	14:30:00	19.51	8.85	114.5
10/28/2007	14:45:00	19.76	8.79	114.3
10/28/2007	15:00:00	19.98	8.74	114.3
10/28/2007	15:15:00	20.21	8.71	114.4
10/28/2007	15:30:00	20.37	8.66	114.1
10/28/2007	15:45:00	20.52	8.62	113.9
10/28/2007	16:00:00	20.59	8.56	113.2
10/28/2007	16:15:00	20.59	8.49	112.4
10/28/2007	16:30:00	20.53	8.41	111.1
10/28/2007	16:45:00	20.47	8.36	110.3
10/28/2007	17:00:00	20.35	8.27	108.9
10/28/2007	17:15:00	20.18	8.18	107.3
10/28/2007	17:30:00	20.02	8.09	105.8
10/28/2007	17:45:00	19.86	7.99	104.2
10/28/2007	18:00:00	19.73	7.90	102.8
10/28/2007	18:15:00	19.59	7.80	101.2
10/28/2007	18:30:00	19.43	7.70	99.5
10/28/2007	18:45:00	19.26	7.61	98.0
10/28/2007	19:00:00	19.05	7.53	96.6
10/28/2007	19:15:00	18.89	7.47	95.5
10/28/2007	19:30:00	18.75	7.43	94.7
10/28/2007	19:45:00	18.61	7.40	94.1
10/28/2007	20:00:00	18.44	7.39	93.6

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	20:15:00	18.25	7.38	93.1
10/28/2007	20:30:00	18.08	7.37	92.6
10/28/2007	20:45:00	17.89	7.38	92.4
10/28/2007	21:00:00	17.73	7.39	92.2
10/28/2007	21:15:00	17.58	7.39	91.9
10/28/2007	21:30:00	17.44	7.40	91.8
10/28/2007	21:45:00	17.28	7.41	91.6
10/28/2007	22:00:00	17.14	7.43	91.6
10/28/2007	22:15:00	16.99	7.45	91.6
10/28/2007	22:30:00	16.85	7.47	91.5
10/28/2007	22:45:00	16.71	7.49	91.5
10/28/2007	23:00:00	16.57	7.52	91.5
10/28/2007	23:15:00	16.42	7.53	91.5
10/28/2007	23:30:00	16.29	7.56	91.6
10/28/2007	23:45:00	16.15	7.59	91.6
10/29/2007	0:00:00	16.03	7.61	91.7
10/29/2007	0:15:00	15.88	7.64	91.7
10/29/2007	0:30:00	15.74	7.66	91.7
10/29/2007	0:45:00	15.61	7.69	91.8
10/29/2007	1:00:00	15.51	7.71	91.9
10/29/2007	1:15:00	15.39	7.74	91.8
10/29/2007	1:30:00	15.27	7.76	91.9
10/29/2007	1:45:00	15.18	7.77	91.9
10/29/2007	2:00:00	15.07	7.79	91.9
10/29/2007	2:15:00	14.97	7.81	91.9
10/29/2007	2:30:00	14.88	7.82	91.8
10/29/2007	2:45:00	14.78	7.84	91.9
10/29/2007	3:00:00	14.69	7.86	91.9
10/29/2007	3:15:00	14.62	7.87	91.9
10/29/2007	3:30:00	14.52	7.89	92.0
10/29/2007	3:45:00	14.43	7.92	92.0
10/29/2007	4:00:00	14.32	7.94	92.1
10/29/2007	4:15:00	14.19	7.96	92.1
10/29/2007	4:30:00	14.09	7.99	92.2
10/29/2007	4:45:00	13.97	8.02	92.3
10/29/2007	5:00:00	13.86	8.05	92.5
10/29/2007	5:15:00	13.77	8.07	92.5
10/29/2007	5:30:00	13.67	8.10	92.7
10/29/2007	5:45:00	13.57	8.14	92.8
10/29/2007	6:00:00	13.45	8.17	92.9
10/29/2007	6:15:00	13.33	8.20	93.0
10/29/2007	6:30:00	13.21	8.23	93.2
10/29/2007	6:45:00	13.07	8.26	93.2
10/29/2007	7:00:00	12.94	8.30	93.4
10/29/2007	7:15:00	12.79	8.34	93.4

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	7:30:00	12.64	8.38	93.6
10/29/2007	7:45:00	12.52	8.41	93.8
10/29/2007	8:00:00	12.39	8.47	94.1
10/29/2007	8:15:00	12.29	8.53	94.6
10/29/2007	8:30:00	12.26	8.61	95.4
10/29/2007	8:45:00	12.31	8.69	96.4
10/29/2007	9:00:00	12.40	8.79	97.6
10/29/2007	9:15:00	12.51	8.85	98.6
10/29/2007	9:30:00	12.67	8.92	99.7
10/29/2007	9:45:00	12.87	8.97	100.7
10/29/2007	10:00:00	13.18	9.02	102.0
10/29/2007	10:15:00	13.48	9.07	103.2
10/29/2007	10:30:00	13.87	9.10	104.5
10/29/2007	10:45:00	14.17	9.11	105.3
10/29/2007	11:00:00	14.46	9.11	106.0
10/29/2007	11:15:00	14.92	9.15	107.5
10/29/2007	11:30:00	15.27	9.13	108.2
10/29/2007	11:45:00	15.62	9.14	109.1
10/29/2007	12:00:00	16.04	9.12	109.8
10/29/2007	12:15:00	16.47	9.11	110.7
10/29/2007	12:30:00	16.85	9.07	111.1
10/29/2007	12:45:00	17.26	9.08	112.2
10/29/2007	13:00:00	17.61	9.04	112.5
10/29/2007	13:15:00	18.03	9.02	113.3
10/29/2007	13:30:00	18.40	9.00	113.9
10/29/2007	13:45:00	18.73	8.95	114.1
10/29/2007	14:00:00	19.06	8.89	114.1
10/29/2007	14:15:00	19.41	8.88	114.8
10/29/2007	14:30:00	19.62	8.81	114.4
10/29/2007	14:45:00	19.83	8.76	114.1
10/29/2007	15:00:00	20.05	8.72	114.2
10/29/2007	15:15:00	20.16	8.68	113.8
10/29/2007	15:30:00	20.18	8.61	112.9
10/29/2007	15:45:00	20.18	8.58	112.5
10/29/2007	16:00:00	20.16	8.53	111.9
10/29/2007	16:15:00	20.03	8.48	110.9
10/29/2007	16:30:00	19.87	8.41	109.7
10/29/2007	16:45:00	19.73	8.36	108.8
10/29/2007	17:00:00	19.49	8.30	107.3
10/29/2007	17:15:00	19.26	8.24	106.1
10/29/2007	17:30:00	19.02	8.15	104.5
10/29/2007	17:45:00	18.83	8.08	103.1
10/29/2007	18:00:00	18.68	8.00	101.8
10/29/2007	18:15:00	18.50	7.91	100.3
10/29/2007	18:30:00	18.33	7.82	98.9

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	18:45:00	18.20	7.75	97.6
10/29/2007	19:00:00	18.07	7.68	96.6
10/29/2007	19:15:00	17.93	7.63	95.7
10/29/2007	19:30:00	17.76	7.60	94.9
10/29/2007	19:45:00	17.60	7.58	94.3
10/29/2007	20:00:00	17.42	7.56	93.7
10/29/2007	20:15:00	17.25	7.56	93.4
10/29/2007	20:30:00	17.09	7.56	93.1
10/29/2007	20:45:00	16.89	7.56	92.7
10/29/2007	21:00:00	16.69	7.59	92.7
10/29/2007	21:15:00	16.51	7.62	92.7
10/29/2007	21:30:00	16.37	7.64	92.6
10/29/2007	21:45:00	16.28	7.66	92.7
10/29/2007	22:00:00	16.13	7.67	92.5
10/29/2007	22:15:00	15.99	7.68	92.4
10/29/2007	22:30:00	15.88	7.70	92.3
10/29/2007	22:45:00	15.74	7.71	92.2
10/29/2007	23:00:00	15.61	7.72	92.1
10/29/2007	23:15:00	15.51	7.73	92.0
10/29/2007	23:30:00	15.39	7.73	91.8
10/29/2007	23:45:00	15.31	7.74	91.7
10/30/2007	0:00:00	15.20	7.74	91.6
10/30/2007	0:15:00	15.10	7.75	91.5
10/30/2007	0:30:00	14.97	7.77	91.4
10/30/2007	0:45:00	14.84	7.78	91.3
10/30/2007	1:00:00	14.70	7.80	91.3
10/30/2007	1:15:00	14.56	7.82	91.1
10/30/2007	1:30:00	14.43	7.85	91.2
10/30/2007	1:45:00	14.31	7.87	91.2
10/30/2007	2:00:00	14.18	7.89	91.3
10/30/2007	2:15:00	14.05	7.92	91.4
10/30/2007	2:30:00	13.92	7.95	91.4
10/30/2007	2:45:00	13.86	7.96	91.4
10/30/2007	3:00:00	13.74	7.98	91.4
10/30/2007	3:15:00	13.64	8.00	91.5
10/30/2007	3:30:00	13.56	8.03	91.6
10/30/2007	3:45:00	13.47	8.04	91.5
10/30/2007	4:00:00	13.37	8.07	91.6
10/30/2007	4:15:00	13.27	8.09	91.7
10/30/2007	4:30:00	13.18	8.11	91.7
10/30/2007	4:45:00	13.07	8.14	91.8
10/30/2007	5:00:00	12.93	8.16	91.8
10/30/2007	5:15:00	12.82	8.19	91.8
10/30/2007	5:30:00	12.72	8.23	92.1
10/30/2007	5:45:00	12.55	8.27	92.2

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	6:00:00	12.41	8.31	92.3
10/30/2007	6:15:00	12.28	8.34	92.4
10/30/2007	6:30:00	12.15	8.38	92.6
10/30/2007	6:45:00	12.03	8.41	92.7
10/30/2007	7:00:00	11.89	8.46	92.9
10/30/2007	7:15:00	11.76	8.49	92.9
10/30/2007	7:30:00	11.61	8.52	93.0
10/30/2007	7:45:00	11.45	8.58	93.2
10/30/2007	8:00:00	11.34	8.63	93.6
10/30/2007	8:15:00	11.28	8.67	93.9
10/30/2007	8:30:00	11.24	8.76	94.8
10/30/2007	8:45:00	11.25	8.85	95.8
10/30/2007	9:00:00	11.27	8.94	96.7
10/30/2007	9:15:00	11.36	9.00	97.6
10/30/2007	9:30:00	11.56	9.07	98.9
10/30/2007	9:45:00	11.82	9.13	100.1
10/30/2007	10:00:00	12.09	9.19	101.4
10/30/2007	10:15:00	12.38	9.21	102.3
10/30/2007	10:30:00	12.74	9.25	103.6
10/30/2007	10:45:00	13.03	9.25	104.3
10/30/2007	11:00:00	13.42	9.27	105.4
10/30/2007	11:15:00	13.78	9.28	106.4
10/30/2007	11:30:00	14.12	9.29	107.3
10/30/2007	11:45:00	14.39	9.26	107.6
10/30/2007	12:00:00	14.65	9.27	108.3
10/30/2007	12:15:00	14.92	9.24	108.6
10/30/2007	12:30:00	15.29	9.24	109.5
10/30/2007	12:45:00	15.67	9.21	110.0
10/30/2007	13:00:00	15.99	9.16	110.2
10/30/2007	13:15:00	16.32	9.11	110.4
10/30/2007	13:30:00	16.67	9.08	110.9
10/30/2007	13:45:00	16.90	9.07	111.2
10/30/2007	14:00:00	17.01	8.95	110.0
10/30/2007	14:15:00	17.00	8.62	105.9
10/30/2007	14:30:00	16.98	8.26	101.5
10/30/2007	14:45:00	16.92	7.87	96.5
10/30/2007	15:00:00	16.96	7.37	90.5
10/30/2007	15:15:00	17.11	7.17	88.3
10/30/2007	15:30:00	17.13	7.00	86.3
10/30/2007	15:45:00	17.11	6.77	83.4
10/30/2007	16:00:00	17.12	6.58	81.1
10/30/2007	16:15:00	17.17	6.31	77.9
10/30/2007	16:30:00	17.23	6.03	74.5
10/30/2007	16:45:00	17.24	5.84	72.2
10/30/2007	17:00:00	17.24	5.65	69.7

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	17:15:00	17.25	5.44	67.2
10/30/2007	17:30:00	17.24	5.17	63.9
10/30/2007	17:45:00	17.24	4.88	60.3
10/30/2007	18:00:00	17.28	4.61	57.0
10/30/2007	18:15:00	17.35	4.51	55.9
10/30/2007	18:30:00	17.34	4.57	56.6
10/30/2007	18:45:00	17.33	4.80	59.3
10/30/2007	19:00:00	17.31	5.06	62.6
10/30/2007	19:15:00	17.25	5.15	63.6
10/30/2007	19:30:00	17.19	5.12	63.2
10/30/2007	19:45:00	17.14	5.04	62.1
10/30/2007	20:00:00	17.09	4.93	60.7
10/30/2007	20:15:00	17.06	4.82	59.3
10/30/2007	20:30:00	17.01	4.71	57.9
10/30/2007	20:45:00	16.97	4.46	54.7
10/30/2007	21:00:00	16.92	4.25	52.1
10/30/2007	21:15:00	16.84	4.21	51.6
10/30/2007	21:30:00	16.79	4.23	51.7
10/30/2007	21:45:00	16.73	4.26	52.1
10/30/2007	22:00:00	16.64	4.38	53.4
10/30/2007	22:15:00	16.42	5.37	65.2
10/30/2007	22:30:00	16.29	5.64	68.3
10/30/2007	22:45:00	16.22	5.68	68.7
10/30/2007	23:00:00	16.15	5.68	68.5
10/30/2007	23:15:00	16.09	5.71	68.8
10/30/2007	23:30:00	15.99	6.92	83.2
10/30/2007	23:45:00	15.77	7.31	87.5
10/31/2007	0:00:00	15.67	7.10	84.8
10/31/2007	0:15:00	15.64	6.81	81.3
10/31/2007	0:30:00	15.63	6.58	78.6
10/31/2007	0:45:00	15.58	6.59	78.5
10/31/2007	1:00:00	15.47	6.84	81.4
10/31/2007	1:15:00	15.43	6.71	79.8
10/31/2007	1:30:00	15.29	7.22	85.5
10/31/2007	1:45:00	15.27	7.03	83.3
10/31/2007	2:00:00	15.25	6.85	81.1
10/31/2007	2:15:00	15.22	6.65	78.7
10/31/2007	2:30:00	15.19	6.50	76.9
10/31/2007	2:45:00	15.17	6.42	75.9
10/31/2007	3:00:00	14.97	6.89	81.0
10/31/2007	3:15:00	14.92	7.03	82.6
10/31/2007	3:30:00	14.93	6.88	80.8
10/31/2007	3:45:00	14.91	6.79	79.7
10/31/2007	4:00:00	14.77	7.24	84.8
10/31/2007	4:15:00	14.74	7.15	83.7

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	4:30:00	14.68	7.06	82.6
10/31/2007	4:45:00	14.64	7.09	82.9
10/31/2007	5:00:00	14.59	7.18	83.8
10/31/2007	5:15:00	14.40	7.42	86.2
10/31/2007	5:30:00	14.27	7.55	87.5
10/31/2007	5:45:00	14.23	7.43	86.0
10/31/2007	6:00:00	14.13	7.39	85.4
10/31/2007	6:15:00	14.08	7.39	85.2
10/31/2007	6:30:00	14.05	7.34	84.7
10/31/2007	6:45:00	13.92	7.51	86.3
10/31/2007	7:00:00	13.69	7.75	88.7
10/31/2007	7:15:00	13.49	7.91	90.1
10/31/2007	7:30:00	13.36	8.08	91.7
10/31/2007	7:45:00	13.23	8.01	90.7
10/31/2007	8:00:00	13.24	7.81	88.5
10/31/2007	8:15:00	13.26	7.60	86.1
10/31/2007	8:30:00	13.26	7.43	84.1
10/31/2007	8:45:00	13.22	7.33	82.9
10/31/2007	9:00:00	13.16	7.56	85.4
10/31/2007	9:15:00	13.10	7.84	88.5
10/31/2007	9:30:00	12.94	8.04	90.4
10/31/2007	9:45:00	12.84	8.11	91.0
10/31/2007	10:00:00	12.82	8.16	91.6
10/31/2007	10:15:00	12.84	8.26	92.7
10/31/2007	10:30:00	12.91	8.25	92.7
10/31/2007	10:45:00	12.98	8.13	91.5
10/31/2007	11:00:00	13.07	8.03	90.6
10/31/2007	11:15:00	13.16	7.98	90.2
10/31/2007	11:30:00	13.26	7.97	90.2
10/31/2007	11:45:00	13.38	7.97	90.5
10/31/2007	12:00:00	13.53	8.04	91.7
10/31/2007	12:15:00	13.68	8.01	91.7
10/31/2007	12:30:00	13.83	7.90	90.6
10/31/2007	12:45:00	13.95	7.70	88.6
10/31/2007	13:00:00	14.06	7.51	86.7
10/31/2007	13:15:00	14.20	7.37	85.2
10/31/2007	13:30:00	14.51	7.31	85.1
10/31/2007	13:45:00	14.93	7.57	89.1
10/31/2007	14:00:00	15.42	7.75	92.1
10/31/2007	14:15:00	15.83	7.77	93.2
10/31/2007	14:30:00	16.13	7.73	93.3
10/31/2007	14:45:00	16.25	7.66	92.7
10/31/2007	15:00:00	16.51	7.59	92.4
10/31/2007	15:15:00	16.84	7.62	93.3
10/31/2007	15:30:00	17.00	7.53	92.5

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	15:45:00	17.07	7.40	91.1
10/31/2007	16:00:00	17.11	7.30	89.9
10/31/2007	16:15:00	17.12	7.25	89.3
10/31/2007	16:30:00	17.11	7.26	89.4
10/31/2007	16:45:00	17.12	7.43	91.6
10/31/2007	17:00:00	17.11	7.54	92.9
10/31/2007	17:15:00	17.15	7.48	92.2
10/31/2007	17:30:00	17.21	7.36	90.9
10/31/2007	17:45:00	17.21	7.20	88.9
10/31/2007	18:00:00	17.23	7.03	86.8
10/31/2007	18:15:00	17.29	6.94	85.8
10/31/2007	18:30:00	17.31	6.83	84.5
10/31/2007	18:45:00	17.28	6.66	82.4
10/31/2007	19:00:00	17.21	6.63	81.8
10/31/2007	19:15:00	17.12	6.60	81.4
10/31/2007	19:30:00	17.01	6.49	79.7
10/31/2007	19:45:00	16.90	6.32	77.4
10/31/2007	20:00:00	16.78	6.18	75.6
10/31/2007	20:15:00	16.64	6.10	74.4
10/31/2007	20:30:00	16.49	6.07	73.9
10/31/2007	20:45:00	16.34	6.02	73.0
10/31/2007	21:00:00	16.20	6.00	72.4
10/31/2007	21:15:00	16.04	6.09	73.3
10/31/2007	21:30:00	15.89	6.18	74.2
10/31/2007	21:45:00	15.75	6.24	74.6
10/31/2007	22:00:00	15.61	6.23	74.3
10/31/2007	22:15:00	15.46	6.22	73.9
10/31/2007	22:30:00	15.32	6.18	73.3
10/31/2007	22:45:00	15.18	6.15	72.7
10/31/2007	23:00:00	15.05	6.05	71.3
10/31/2007	23:15:00	14.91	6.06	71.2
10/31/2007	23:30:00	14.78	6.10	71.4
10/31/2007	23:45:00	14.66	6.13	71.6
11/1/2007	0:00:00	14.54	6.14	71.6
11/1/2007	0:15:00	14.42	6.18	71.8
11/1/2007	0:30:00	14.32	6.19	71.8
11/1/2007	0:45:00	14.22	6.21	71.9
11/1/2007	1:00:00	14.12	6.25	72.2
11/1/2007	1:15:00	14.02	6.28	72.4
11/1/2007	1:30:00	13.91	6.33	72.7
11/1/2007	1:45:00	13.80	6.37	73.1
11/1/2007	2:00:00	13.68	6.40	73.2
11/1/2007	2:15:00	13.56	6.41	73.1
11/1/2007	2:30:00	13.42	6.48	73.7
11/1/2007	2:45:00	13.29	6.60	74.9

Table 5.43. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

11/1/2007	3:00:00	13.17	6.65	75.2
11/1/2007	3:15:00	13.06	6.71	75.7
11/1/2007	3:30:00	12.91	6.73	75.6
11/1/2007	3:45:00	12.78	6.76	75.7
11/1/2007	4:00:00	12.67	6.75	75.4
11/1/2007	4:15:00	12.61	6.74	75.2
11/1/2007	4:30:00	12.56	6.80	75.9
11/1/2007	4:45:00	12.51	6.92	77.1
11/1/2007	5:00:00	12.47	6.97	77.5
11/1/2007	5:15:00	12.41	7.00	77.8
11/1/2007	5:30:00	12.33	7.03	78.0
11/1/2007	5:45:00	12.26	7.01	77.6
11/1/2007	6:00:00	12.18	6.98	77.2
11/1/2007	6:15:00	12.07	7.00	77.2
11/1/2007	6:30:00	11.98	7.00	77.1
11/1/2007	6:45:00	11.88	6.99	76.7
11/1/2007	7:00:00	11.79	6.97	76.4
11/1/2007	7:15:00	11.69	6.97	76.2
11/1/2007	7:30:00	11.59	6.98	76.1
11/1/2007	7:45:00	11.50	6.98	76.0
11/1/2007	8:00:00	11.41	6.97	75.7
11/1/2007	8:15:00	11.33	6.93	75.1
11/1/2007	8:30:00	11.23	6.89	74.5
11/1/2007	8:45:00	11.12	6.88	74.2
11/1/2007	9:00:00	11.05	6.87	74.0
11/1/2007	9:15:00	10.97	6.91	74.3
11/1/2007	9:30:00	10.91	7.05	75.7
11/1/2007	9:45:00	10.87	7.24	77.6
11/1/2007	10:00:00	10.87	7.26	77.8
11/1/2007	10:15:00	10.92	7.15	76.8
11/1/2007	10:30:00	11.01	7.00	75.4
11/1/2007	10:45:00	11.12	6.84	73.8
11/1/2007	11:00:00	11.26	6.67	72.2
11/1/2007	11:15:00	11.43	6.99	75.9

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40183**	**Name**	**:**	**Marge**
Log	**File**	**Name**	**:**	**Part of SITE5-10-22-07**
Setup	**Date**	**(MMDDYY)**	**:**	**10/18/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**150201**
Starting	**Date**	**(MMDDYY)**	**:**	**10/22/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**1100000**
Stopping	**Date**	**(MMDDYY)**	**:**	**11/2/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
10/26/2007	14:45:00	20.4	477	8.16	7.29	95.9
10/26/2007	15:00:00	20.6	476	8.16	7.24	95.5
10/26/2007	15:15:00	20.7	476	8.16	7.21	95.3
10/26/2007	15:30:00	20.8	479	8.15	7.18	95.2
10/26/2007	15:45:00	20.8	483	8.14	7.17	95.0
10/26/2007	16:00:00	20.8	485	8.14	7.08	93.8
10/26/2007	16:15:00	20.8	489	8.15	7.10	94.1
10/26/2007	16:30:00	20.7	487	8.14	7.06	93.3
10/26/2007	16:45:00	20.5	489	8.13	7.02	92.5
10/26/2007	17:00:00	20.4	488	8.12	7.01	92.1
10/26/2007	17:15:00	20.2	494	8.12	6.97	91.2
10/26/2007	17:30:00	20.0	492	8.11	6.94	90.5
10/26/2007	17:45:00	19.8	491	8.10	6.89	89.5
10/26/2007	18:00:00	19.6	492	8.09	6.87	88.8
10/26/2007	18:15:00	19.4	490	8.07	6.84	88.2
10/26/2007	18:30:00	19.3	494	8.05	6.80	87.4
10/26/2007	18:45:00	19.1	493	8.03	6.76	86.5
10/26/2007	19:00:00	18.9	495	8.02	6.73	85.8
10/26/2007	19:15:00	18.7	494	8.01	6.69	85.1
10/26/2007	19:30:00	18.6	495	8.01	6.65	84.4
10/26/2007	19:45:00	18.4	494	8.00	6.65	84.1
10/26/2007	20:00:00	18.3	496	7.99	6.66	83.9
10/26/2007	20:15:00	18.1	497	7.98	6.67	83.7
10/26/2007	20:30:00	17.9	496	7.98	6.68	83.5
10/26/2007	20:45:00	17.7	494	7.97	6.71	83.6
10/26/2007	21:00:00	17.5	495	7.97	6.70	83.1
10/26/2007	21:15:00	17.3	499	7.98	6.70	82.7
10/26/2007	21:30:00	17.2	497	7.97	6.73	82.8
10/26/2007	21:45:00	17.0	497	7.97	6.70	82.2
10/26/2007	22:00:00	16.9	500	7.96	6.77	82.8
10/26/2007	22:15:00	16.7	500	7.95	6.76	82.5
10/26/2007	22:30:00	16.6	502	7.95	6.77	82.3

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/26/2007	22:45:00	16.5	503	7.95	6.80	82.5
10/26/2007	23:00:00	16.4	501	7.94	6.79	82.2
10/26/2007	23:15:00	16.2	503	7.95	6.83	82.3
10/26/2007	23:30:00	16.0	501	7.95	6.86	82.5
10/26/2007	23:45:00	15.9	501	7.95	6.90	82.7
10/27/2007	0:00:00	15.8	500	7.94	6.91	82.7
10/27/2007	0:15:00	15.7	503	7.95	6.92	82.6
10/27/2007	0:30:00	15.5	505	7.94	6.89	81.9
10/27/2007	0:45:00	15.4	507	7.94	6.97	82.7
10/27/2007	1:00:00	15.2	509	7.93	6.91	81.7
10/27/2007	1:15:00	15.1	508	7.93	7.01	82.6
10/27/2007	1:30:00	15.0	511	7.93	6.98	82.1
10/27/2007	1:45:00	14.9	510	7.93	7.01	82.1
10/27/2007	2:00:00	14.7	510	7.94	7.02	82.1
10/27/2007	2:15:00	14.6	510	7.94	7.08	82.5
10/27/2007	2:30:00	14.5	509	7.94	7.07	82.3
10/27/2007	2:45:00	14.4	509	7.94	7.07	82.1
10/27/2007	3:00:00	14.3	508	7.95	7.10	82.2
10/27/2007	3:15:00	14.2	506	7.95	7.15	82.7
10/27/2007	3:30:00	14.1	506	7.95	7.17	82.6
10/27/2007	3:45:00	14.0	505	7.96	7.18	82.6
10/27/2007	4:00:00	13.8	505	7.97	7.23	82.9
10/27/2007	4:15:00	13.7	504	7.98	7.23	82.6
10/27/2007	4:30:00	13.5	502	7.98	7.26	82.7
10/27/2007	4:45:00	13.4	501	7.99	7.28	82.6
10/27/2007	5:00:00	13.3	500	7.99	7.32	82.8
10/27/2007	5:15:00	13.1	497	8.00	7.35	83.0
10/27/2007	5:30:00	13.0	494	8.00	7.37	83.0
10/27/2007	5:45:00	13.0	495	8.00	7.39	83.1
10/27/2007	6:00:00	13.0	495	8.01	7.40	83.2
10/27/2007	6:15:00	12.9	494	8.02	7.41	83.2
10/27/2007	6:30:00	12.8	491	8.02	7.43	83.4
10/27/2007	6:45:00	12.7	492	8.03	7.47	83.5
10/27/2007	7:00:00	12.6	486	8.04	7.47	83.3
10/27/2007	7:15:00	12.4	483	8.05	7.54	83.7
10/27/2007	7:30:00	12.3	481	8.05	7.57	83.8
10/27/2007	7:45:00	12.2	478	8.06	7.58	83.7
10/27/2007	8:00:00	12.1	473	8.08	7.63	84.0
10/27/2007	8:15:00	12.0	469	8.09	7.66	84.3
10/27/2007	8:30:00	12.0	469	8.09	7.70	84.8
10/27/2007	8:45:00	12.1	471	8.10	7.76	85.6
10/27/2007	9:00:00	12.2	470	8.11	7.79	86.1
10/27/2007	9:15:00	12.4	470	8.13	7.79	86.5
10/27/2007	9:30:00	12.7	467	8.14	7.82	87.3
10/27/2007	9:45:00	12.9	466	8.15	7.85	88.2

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	10:00:00	13.2	465	8.17	7.82	88.5
10/27/2007	10:15:00	13.6	463	8.17	7.86	89.6
10/27/2007	10:30:00	13.9	463	8.19	7.87	90.5
10/27/2007	10:45:00	14.4	461	8.19	7.82	90.7
10/27/2007	11:00:00	14.7	461	8.19	7.80	91.2
10/27/2007	11:15:00	15.2	460	8.21	7.81	92.1
10/27/2007	11:30:00	15.6	456	8.22	7.81	92.9
10/27/2007	11:45:00	16.0	455	8.23	7.76	93.2
10/27/2007	12:00:00	16.5	455	8.24	7.75	93.9
10/27/2007	12:15:00	16.9	455	8.24	7.72	94.5
10/27/2007	12:30:00	17.4	455	8.25	7.65	94.6
10/27/2007	12:45:00	17.7	453	8.25	7.63	95.0
10/27/2007	13:00:00	18.1	455	8.25	7.60	95.4
10/27/2007	13:15:00	18.4	452	8.26	7.59	95.8
10/27/2007	13:30:00	18.7	452	8.27	7.51	95.4
10/27/2007	13:45:00	19.0	451	8.28	7.47	95.4
10/27/2007	14:00:00	19.2	447	8.29	7.47	95.8
10/27/2007	14:15:00	19.4	445	8.29	7.46	96.1
10/27/2007	14:30:00	19.7	448	8.30	7.46	96.5
10/27/2007	14:45:00	19.9	453	8.29	7.38	95.9
10/27/2007	15:00:00	20.1	458	8.28	7.43	97.0
10/27/2007	15:15:00	20.2	466	8.28	7.40	96.8
10/27/2007	15:30:00	20.3	470	8.27	7.34	96.4
10/27/2007	15:45:00	20.4	473	8.27	7.32	96.1
10/27/2007	16:00:00	20.4	475	8.26	7.31	96.0
10/27/2007	16:15:00	20.3	480	8.25	7.26	95.3
10/27/2007	16:30:00	20.2	483	8.23	7.20	94.3
10/27/2007	16:45:00	20.1	485	8.22	7.20	94.0
10/27/2007	17:00:00	20.0	489	8.21	7.20	94.0
10/27/2007	17:15:00	19.9	491	8.19	7.14	92.9
10/27/2007	17:30:00	19.8	492	8.17	7.09	92.0
10/27/2007	17:45:00	19.6	494	8.15	7.03	91.0
10/27/2007	18:00:00	19.5	496	8.13	6.97	90.0
10/27/2007	18:15:00	19.3	492	8.12	6.91	88.8
10/27/2007	18:30:00	19.0	487	8.11	6.87	87.9
10/27/2007	18:45:00	18.8	482	8.10	6.82	86.8
10/27/2007	19:00:00	18.5	477	8.10	6.78	85.8
10/27/2007	19:15:00	18.3	472	8.09	6.77	85.3
10/27/2007	19:30:00	18.0	478	8.06	6.72	84.3
10/27/2007	19:45:00	17.8	483	8.04	6.72	83.8
10/27/2007	20:00:00	17.7	489	8.01	6.68	83.2
10/27/2007	20:15:00	17.6	496	7.99	6.72	83.4
10/27/2007	20:30:00	17.4	501	7.97	6.70	82.9
10/27/2007	20:45:00	17.3	501	7.96	6.66	82.3
10/27/2007	21:00:00	17.2	501	7.95	6.67	82.2

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/27/2007	21:15:00	17.1	503	7.94	6.67	82.0
10/27/2007	21:30:00	17.1	497	7.93	6.71	82.5
10/27/2007	21:45:00	17.0	500	7.92	6.70	82.1
10/27/2007	22:00:00	16.9	501	7.92	6.70	82.0
10/27/2007	22:15:00	16.7	499	7.93	6.74	82.2
10/27/2007	22:30:00	16.6	499	7.92	6.76	82.2
10/27/2007	22:45:00	16.5	498	7.92	6.72	81.6
10/27/2007	23:00:00	16.4	500	7.92	6.78	82.1
10/27/2007	23:15:00	16.3	495	7.93	6.75	81.6
10/27/2007	23:30:00	16.1	491	7.92	6.81	82.0
10/27/2007	23:45:00	15.8	492	7.93	6.83	81.8
10/28/2007	0:00:00	15.7	491	7.93	6.84	81.7
10/28/2007	0:15:00	15.6	493	7.93	6.87	81.9
10/28/2007	0:30:00	15.5	493	7.92	6.92	82.3
10/28/2007	0:45:00	15.4	491	7.93	6.91	81.9
10/28/2007	1:00:00	15.3	492	7.92	6.91	81.8
10/28/2007	1:15:00	15.2	492	7.92	6.92	81.7
10/28/2007	1:30:00	15.2	495	7.91	6.97	82.2
10/28/2007	1:45:00	15.1	496	7.91	6.98	82.2
10/28/2007	2:00:00	15.1	492	7.91	6.98	82.1
10/28/2007	2:15:00	15.0	494	7.90	6.97	81.9
10/28/2007	2:30:00	14.9	494	7.90	7.01	82.3
10/28/2007	2:45:00	14.8	495	7.90	7.03	82.3
10/28/2007	3:00:00	14.8	492	7.91	7.08	82.8
10/28/2007	3:15:00	14.7	491	7.91	7.03	82.1
10/28/2007	3:30:00	14.6	487	7.91	7.08	82.6
10/28/2007	3:45:00	14.5	486	7.92	7.09	82.5
10/28/2007	4:00:00	14.4	487	7.93	7.15	82.9
10/28/2007	4:15:00	14.2	481	7.93	7.14	82.6
10/28/2007	4:30:00	14.1	480	7.94	7.15	82.5
10/28/2007	4:45:00	14.0	478	7.94	7.18	82.7
10/28/2007	5:00:00	13.9	475	7.95	7.19	82.6
10/28/2007	5:15:00	13.9	474	7.95	7.23	83.0
10/28/2007	5:30:00	13.7	471	7.96	7.25	82.9
10/28/2007	5:45:00	13.6	467	7.97	7.29	83.0
10/28/2007	6:00:00	13.4	464	7.98	7.31	83.1
10/28/2007	6:15:00	13.3	460	7.99	7.34	83.1
10/28/2007	6:30:00	13.2	457	8.00	7.36	83.1
10/28/2007	6:45:00	13.0	458	8.01	7.37	83.0
10/28/2007	7:00:00	12.9	453	8.02	7.39	83.0
10/28/2007	7:15:00	12.8	452	8.03	7.43	83.2
10/28/2007	7:30:00	12.6	443	8.04	7.50	83.7
10/28/2007	7:45:00	12.5	443	8.06	7.50	83.5
10/28/2007	8:00:00	12.4	439	8.07	7.50	83.2
10/28/2007	8:15:00	12.3	435	8.09	7.58	83.9

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	8:30:00	12.2	429	8.11	7.67	84.8
10/28/2007	8:45:00	12.2	428	8.12	7.71	85.2
10/28/2007	9:00:00	12.3	433	8.13	7.75	85.9
10/28/2007	9:15:00	12.5	435	8.13	7.76	86.4
10/28/2007	9:30:00	12.8	433	8.16	7.83	87.7
10/28/2007	9:45:00	13.0	429	8.18	7.89	88.7
10/28/2007	10:00:00	13.3	425	8.20	7.91	89.5
10/28/2007	10:15:00	13.5	423	8.23	7.93	90.3
10/28/2007	10:30:00	13.8	420	8.25	7.98	91.4
10/28/2007	10:45:00	14.2	419	8.25	8.01	92.6
10/28/2007	11:00:00	14.6	420	8.26	8.02	93.4
10/28/2007	11:15:00	15.0	418	8.28	8.01	94.1
10/28/2007	11:30:00	15.3	415	8.29	8.01	94.9
10/28/2007	11:45:00	15.7	414	8.30	8.02	95.7
10/28/2007	12:00:00	16.1	413	8.32	8.00	96.4
10/28/2007	12:15:00	16.5	415	8.33	7.94	96.4
10/28/2007	12:30:00	16.8	413	8.33	7.94	96.9
10/28/2007	12:45:00	17.3	414	8.35	7.93	97.9
10/28/2007	13:00:00	17.6	415	8.35	7.94	98.6
10/28/2007	13:15:00	18.0	418	8.35	7.87	98.5
10/28/2007	13:30:00	18.5	420	8.37	7.86	99.4
10/28/2007	13:45:00	18.7	416	8.36	7.82	99.3
10/28/2007	14:00:00	19.0	419	8.36	7.77	99.4
10/28/2007	14:15:00	19.3	423	8.36	7.78	100.0
10/28/2007	14:30:00	19.5	422	8.35	7.80	100.6
10/28/2007	14:45:00	19.8	429	8.35	7.71	100.1
10/28/2007	15:00:00	20.0	434	8.33	7.70	100.5
10/28/2007	15:15:00	20.2	438	8.32	7.64	100.1
10/28/2007	15:30:00	20.4	446	8.31	7.60	100.0
10/28/2007	15:45:00	20.5	447	8.28	7.58	99.9
10/28/2007	16:00:00	20.6	454	8.27	7.50	99.0
10/28/2007	16:15:00	20.6	456	8.26	7.45	98.2
10/28/2007	16:30:00	20.5	458	8.24	7.39	97.3
10/28/2007	16:45:00	20.5	461	8.22	7.33	96.5
10/28/2007	17:00:00	20.3	462	8.20	7.25	95.2
10/28/2007	17:15:00	20.2	464	8.18	7.22	94.4
10/28/2007	17:30:00	20.0	466	8.16	7.16	93.3
10/28/2007	17:45:00	19.9	469	8.14	7.07	91.9
10/28/2007	18:00:00	19.7	470	8.11	7.01	91.0
10/28/2007	18:15:00	19.6	469	8.09	6.97	90.2
10/28/2007	18:30:00	19.4	469	8.07	6.90	89.0
10/28/2007	18:45:00	19.2	472	8.05	6.79	87.2
10/28/2007	19:00:00	19.0	471	8.03	6.73	86.1
10/28/2007	19:15:00	18.9	471	8.01	6.69	85.3
10/28/2007	19:30:00	18.7	474	8.00	6.67	84.8

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/28/2007	19:45:00	18.6	473	7.99	6.63	84.1
10/28/2007	20:00:00	18.4	474	7.98	6.60	83.3
10/28/2007	20:15:00	18.2	474	7.97	6.59	82.9
10/28/2007	20:30:00	18.1	475	7.96	6.56	82.3
10/28/2007	20:45:00	17.9	475	7.95	6.58	82.2
10/28/2007	21:00:00	17.7	473	7.95	6.62	82.4
10/28/2007	21:15:00	17.6	475	7.93	6.60	81.9
10/28/2007	21:30:00	17.4	475	7.93	6.63	82.0
10/28/2007	21:45:00	17.3	475	7.92	6.64	81.9
10/28/2007	22:00:00	17.1	475	7.92	6.65	81.8
10/28/2007	22:15:00	17.0	475	7.92	6.61	81.0
10/28/2007	22:30:00	16.8	474	7.91	6.65	81.3
10/28/2007	22:45:00	16.7	477	7.91	6.68	81.4
10/28/2007	23:00:00	16.5	476	7.91	6.72	81.7
10/28/2007	23:15:00	16.4	478	7.91	6.71	81.2
10/28/2007	23:30:00	16.3	477	7.91	6.75	81.6
10/28/2007	23:45:00	16.1	479	7.91	6.76	81.4
10/29/2007	0:00:00	16.0	478	7.90	6.78	81.4
10/29/2007	0:15:00	15.9	479	7.90	6.80	81.5
10/29/2007	0:30:00	15.7	480	7.90	6.82	81.5
10/29/2007	0:45:00	15.6	479	7.90	6.85	81.6
10/29/2007	1:00:00	15.5	480	7.90	6.87	81.7
10/29/2007	1:15:00	15.4	480	7.89	6.88	81.5
10/29/2007	1:30:00	15.2	480	7.90	6.88	81.3
10/29/2007	1:45:00	15.2	482	7.89	6.90	81.4
10/29/2007	2:00:00	15.0	483	7.89	6.90	81.2
10/29/2007	2:15:00	14.9	483	7.89	6.93	81.4
10/29/2007	2:30:00	14.9	485	7.89	6.94	81.3
10/29/2007	2:45:00	14.8	485	7.89	6.97	81.5
10/29/2007	3:00:00	14.7	485	7.89	6.98	81.5
10/29/2007	3:15:00	14.6	486	7.88	6.97	81.2
10/29/2007	3:30:00	14.5	485	7.89	7.01	81.5
10/29/2007	3:45:00	14.4	483	7.89	6.99	81.2
10/29/2007	4:00:00	14.3	482	7.89	7.03	81.4
10/29/2007	4:15:00	14.2	483	7.90	7.05	81.4
10/29/2007	4:30:00	14.1	482	7.90	7.09	81.7
10/29/2007	4:45:00	13.9	479	7.91	7.08	81.4
10/29/2007	5:00:00	13.8	478	7.92	7.11	81.5
10/29/2007	5:15:00	13.7	476	7.92	7.14	81.7
10/29/2007	5:30:00	13.6	476	7.93	7.14	81.5
10/29/2007	5:45:00	13.5	472	7.94	7.20	82.0
10/29/2007	6:00:00	13.4	468	7.95	7.20	81.8
10/29/2007	6:15:00	13.3	466	7.95	7.28	82.4
10/29/2007	6:30:00	13.2	463	7.97	7.30	82.4
10/29/2007	6:45:00	13.0	461	7.97	7.31	82.3

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	7:00:00	12.9	458	7.98	7.32	82.2
10/29/2007	7:15:00	12.8	455	7.99	7.37	82.5
10/29/2007	7:30:00	12.6	453	8.00	7.44	83.0
10/29/2007	7:45:00	12.5	450	8.01	7.46	82.9
10/29/2007	8:00:00	12.4	447	8.03	7.47	82.9
10/29/2007	8:15:00	12.3	445	8.05	7.54	83.5
10/29/2007	8:30:00	12.2	441	8.06	7.60	84.0
10/29/2007	8:45:00	12.3	441	8.07	7.66	84.8
10/29/2007	9:00:00	12.4	441	8.09	7.68	85.3
10/29/2007	9:15:00	12.5	439	8.11	7.76	86.4
10/29/2007	9:30:00	12.7	438	8.12	7.84	87.5
10/29/2007	9:45:00	12.9	436	8.14	7.85	88.1
10/29/2007	10:00:00	13.2	435	8.15	7.88	89.0
10/29/2007	10:15:00	13.5	435	8.17	7.95	90.5
10/29/2007	10:30:00	13.9	433	8.19	7.92	90.9
10/29/2007	10:45:00	14.2	434	8.20	7.89	91.1
10/29/2007	11:00:00	14.5	430	8.21	7.91	91.9
10/29/2007	11:15:00	15.0	428	8.23	7.93	93.1
10/29/2007	11:30:00	15.3	428	8.24	7.91	93.6
10/29/2007	11:45:00	15.7	427	8.25	7.91	94.3
10/29/2007	12:00:00	16.0	426	8.26	7.77	93.3
10/29/2007	12:15:00	16.5	429	8.27	7.75	94.1
10/29/2007	12:30:00	16.8	432	8.27	7.71	94.2
10/29/2007	12:45:00	17.2	433	8.28	7.73	95.2
10/29/2007	13:00:00	17.6	438	8.27	7.70	95.6
10/29/2007	13:15:00	18.1	443	8.28	7.68	96.3
10/29/2007	13:30:00	18.4	449	8.27	7.70	97.3
10/29/2007	13:45:00	18.8	455	8.25	7.66	97.5
10/29/2007	14:00:00	19.1	460	8.24	7.60	97.3
10/29/2007	14:15:00	19.4	464	8.24	7.54	97.1
10/29/2007	14:30:00	19.6	466	8.23	7.45	96.5
10/29/2007	14:45:00	19.9	471	8.21	7.43	96.7
10/29/2007	15:00:00	20.0	475	8.21	7.38	96.4
10/29/2007	15:15:00	20.2	478	8.20	7.34	96.1
10/29/2007	15:30:00	20.2	478	8.20	7.31	95.7
10/29/2007	15:45:00	20.2	479	8.19	7.25	94.9
10/29/2007	16:00:00	20.2	479	8.19	7.13	93.3
10/29/2007	16:15:00	20.0	479	8.18	7.13	93.1
10/29/2007	16:30:00	19.9	479	8.18	7.14	92.8
10/29/2007	16:45:00	19.7	481	8.18	7.10	92.1
10/29/2007	17:00:00	19.5	478	8.16	7.14	92.1
10/29/2007	17:15:00	19.2	480	8.15	7.07	90.8
10/29/2007	17:30:00	19.0	484	8.13	7.04	90.0
10/29/2007	17:45:00	18.8	482	8.12	6.95	88.5
10/29/2007	18:00:00	18.7	484	8.10	6.90	87.6

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/29/2007	18:15:00	18.5	484	8.08	6.87	86.9
10/29/2007	18:30:00	18.3	482	8.06	6.84	86.2
10/29/2007	18:45:00	18.2	482	8.04	6.75	84.8
10/29/2007	19:00:00	18.0	482	8.03	6.72	84.3
10/29/2007	19:15:00	17.9	481	8.01	6.66	83.2
10/29/2007	19:30:00	17.7	481	8.01	6.65	82.8
10/29/2007	19:45:00	17.6	481	8.00	6.64	82.4
10/29/2007	20:00:00	17.4	484	7.99	6.62	81.9
10/29/2007	20:15:00	17.2	483	7.99	6.61	81.5
10/29/2007	20:30:00	17.1	485	7.98	6.64	81.6
10/29/2007	20:45:00	16.9	485	7.98	6.63	81.1
10/29/2007	21:00:00	16.7	483	7.99	6.64	80.9
10/29/2007	21:15:00	16.5	479	8.00	6.69	81.2
10/29/2007	21:30:00	16.4	480	8.00	6.69	81.0
10/29/2007	21:45:00	16.2	480	8.01	6.70	81.0
10/29/2007	22:00:00	16.1	482	8.00	6.71	80.8
10/29/2007	22:15:00	16.0	484	7.99	6.70	80.4
10/29/2007	22:30:00	15.9	485	7.99	6.70	80.2
10/29/2007	22:45:00	15.7	486	7.99	6.73	80.4
10/29/2007	23:00:00	15.6	490	7.98	6.72	80.0
10/29/2007	23:15:00	15.5	495	7.96	6.76	80.3
10/29/2007	23:30:00	15.4	500	7.94	6.76	80.1
10/29/2007	23:45:00	15.3	503	7.93	6.74	79.7
10/30/2007	0:00:00	15.2	504	7.92	6.75	79.6
10/30/2007	0:15:00	15.1	505	7.91	6.76	79.6
10/30/2007	0:30:00	14.9	505	7.91	6.77	79.5
10/30/2007	0:45:00	14.8	502	7.91	6.79	79.4
10/30/2007	1:00:00	14.7	499	7.90	6.80	79.4
10/30/2007	1:15:00	14.5	498	7.90	6.80	79.2
10/30/2007	1:30:00	14.4	495	7.91	6.88	79.9
10/30/2007	1:45:00	14.3	494	7.91	6.90	79.9
10/30/2007	2:00:00	14.2	494	7.91	6.91	79.8
10/30/2007	2:15:00	14.0	489	7.91	6.81	78.4
10/30/2007	2:30:00	13.9	488	7.91	6.96	79.9
10/30/2007	2:45:00	13.8	489	7.91	6.89	79.0
10/30/2007	3:00:00	13.7	485	7.91	6.95	79.5
10/30/2007	3:15:00	13.6	485	7.92	6.84	78.1
10/30/2007	3:30:00	13.5	485	7.92	6.94	79.0
10/30/2007	3:45:00	13.4	485	7.92	7.01	79.6
10/30/2007	4:00:00	13.3	482	7.93	7.00	79.3
10/30/2007	4:15:00	13.2	480	7.93	7.06	79.9
10/30/2007	4:30:00	13.1	478	7.93	7.06	79.7
10/30/2007	4:45:00	13.0	474	7.94	7.09	79.8
10/30/2007	5:00:00	12.9	473	7.94	7.06	79.3
10/30/2007	5:15:00	12.8	474	7.95	7.20	80.7

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	5:30:00	12.7	469	7.96	7.18	80.2
10/30/2007	5:45:00	12.5	468	7.97	7.26	80.8
10/30/2007	6:00:00	12.4	463	7.98	7.35	81.6
10/30/2007	6:15:00	12.2	462	7.99	7.39	81.7
10/30/2007	6:30:00	12.1	461	8.00	7.35	81.0
10/30/2007	6:45:00	12.0	460	8.01	7.38	81.3
10/30/2007	7:00:00	11.8	456	8.02	7.43	81.4
10/30/2007	7:15:00	11.7	454	8.02	7.48	81.8
10/30/2007	7:30:00	11.5	450	8.04	7.40	80.6
10/30/2007	7:45:00	11.3	447	8.05	7.50	81.3
10/30/2007	8:00:00	11.2	444	8.06	7.42	80.2
10/30/2007	8:15:00	11.2	443	8.07	7.53	81.3
10/30/2007	8:30:00	11.1	441	8.09	7.53	81.2
10/30/2007	8:45:00	11.2	438	8.11	7.82	84.4
10/30/2007	9:00:00	11.2	437	8.12	7.85	84.9
10/30/2007	9:15:00	11.4	436	8.13	7.79	84.5
10/30/2007	9:30:00	11.6	436	8.15	7.86	85.7
10/30/2007	9:45:00	11.8	435	8.16	7.93	87.0
10/30/2007	10:00:00	12.1	433	8.18	8.02	88.5
10/30/2007	10:15:00	12.4	431	8.20	8.00	88.8
10/30/2007	10:30:00	12.8	430	8.21	8.07	90.4
10/30/2007	10:45:00	13.1	428	8.22	8.03	90.5
10/30/2007	11:00:00	13.5	428	8.24	8.09	92.0
10/30/2007	11:15:00	13.9	428	8.25	8.06	92.4
10/30/2007	11:30:00	14.3	429	8.26	8.06	93.3
10/30/2007	11:45:00	14.6	429	8.27	7.87	91.7
10/30/2007	12:00:00	15.0	429	8.29	8.06	94.8
10/30/2007	12:15:00	15.3	429	8.29	8.10	95.8
10/30/2007	12:30:00	15.7	431	8.29	7.90	94.3
10/30/2007	12:45:00	16.0	432	8.30	7.94	95.4
10/30/2007	13:00:00	16.4	436	8.29	8.03	97.2
10/30/2007	13:15:00	16.8	441	8.29	7.92	96.6
10/30/2007	13:30:00	17.1	445	8.28	7.92	97.3
10/30/2007	13:45:00	17.5	451	8.27	7.92	98.1
10/30/2007	14:00:00	17.8	454	8.26	7.84	97.8
10/30/2007	14:15:00	18.1	458	8.25	7.89	99.0
10/30/2007	14:30:00	18.4	463	8.25	7.65	96.6
10/30/2007	14:45:00	18.6	465	8.24	7.67	97.2
10/30/2007	15:00:00	18.8	467	8.23	7.69	97.8
10/30/2007	15:15:00	18.9	469	8.22	7.58	96.8
10/30/2007	15:30:00	19.0	469	8.21	7.56	96.7
10/30/2007	15:45:00	19.1	469	8.20	7.56	96.8
10/30/2007	16:00:00	19.1	470	8.19	7.59	97.2
10/30/2007	16:15:00	19.1	470	8.19	7.56	96.8
10/30/2007	16:30:00	19.1	471	8.18	7.49	95.9

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/30/2007	16:45:00	18.9	469	8.17	7.40	94.5
10/30/2007	17:00:00	18.8	468	8.17	7.40	94.2
10/30/2007	17:15:00	18.6	468	8.16	7.19	91.2
10/30/2007	17:30:00	18.5	467	8.15	7.16	90.6
10/30/2007	17:45:00	18.3	467	8.14	7.17	90.3
10/30/2007	18:00:00	18.1	460	8.15	7.16	89.7
10/30/2007	18:15:00	17.8	452	8.16	7.13	89.0
10/30/2007	18:30:00	17.6	455	8.12	7.12	88.5
10/30/2007	18:45:00	17.5	464	8.09	7.06	87.4
10/30/2007	19:00:00	17.3	463	8.08	6.99	86.3
10/30/2007	19:15:00	17.2	459	8.07	6.99	86.1
10/30/2007	19:30:00	17.0	455	8.07	6.93	85.1
10/30/2007	19:45:00	16.9	450	8.06	6.92	84.6
10/30/2007	20:00:00	16.8	470	8.03	6.85	83.6
10/30/2007	20:15:00	16.7	474	8.01	6.81	83.0
10/30/2007	20:30:00	16.6	478	8.00	6.82	83.0
10/30/2007	20:45:00	16.5	478	7.98	6.82	82.9
10/30/2007	21:00:00	16.4	477	7.98	6.83	82.8
10/30/2007	21:15:00	16.2	472	7.99	6.77	81.7
10/30/2007	21:30:00	16.0	463	8.02	6.91	82.9
10/30/2007	21:45:00	15.7	458	8.03	6.97	83.2
10/30/2007	22:00:00	15.6	457	8.03	6.95	82.8
10/30/2007	22:15:00	15.5	459	8.02	6.94	82.5
10/30/2007	22:30:00	15.4	461	8.01	6.77	80.2
10/30/2007	22:45:00	15.3	459	8.02	6.92	81.8
10/30/2007	23:00:00	15.2	460	8.02	6.94	81.9
10/30/2007	23:15:00	15.1	465	8.00	6.99	82.3
10/30/2007	23:30:00	15.1	468	8.00	7.01	82.5
10/30/2007	23:45:00	15.0	471	7.98	7.04	82.7
10/31/2007	0:00:00	14.9	471	7.98	6.98	81.9
10/31/2007	0:15:00	14.8	471	7.99	7.08	82.8
10/31/2007	0:30:00	14.7	472	7.98	7.12	83.2
10/31/2007	0:45:00	14.7	472	7.98	7.06	82.5
10/31/2007	1:00:00	14.6	471	7.98	7.11	82.8
10/31/2007	1:15:00	14.6	471	7.98	6.95	80.9
10/31/2007	1:30:00	14.5	471	7.98	7.12	82.8
10/31/2007	1:45:00	14.5	474	7.97	7.14	83.1
10/31/2007	2:00:00	14.5	476	7.96	7.03	81.7
10/31/2007	2:15:00	14.4	474	7.96	7.14	82.8
10/31/2007	2:30:00	14.3	475	7.96	7.18	83.2
10/31/2007	2:45:00	14.3	475	7.95	7.18	83.1
10/31/2007	3:00:00	14.2	475	7.95	7.18	82.9
10/31/2007	3:15:00	14.1	473	7.95	7.20	83.0
10/31/2007	3:30:00	14.0	473	7.95	7.23	83.2
10/31/2007	3:45:00	14.0	474	7.94	7.20	82.8

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	4:00:00	13.9	473	7.95	7.24	83.1
10/31/2007	4:15:00	13.8	472	7.95	7.14	81.8
10/31/2007	4:30:00	13.7	469	7.95	7.17	81.9
10/31/2007	4:45:00	13.6	468	7.96	7.36	83.9
10/31/2007	5:00:00	13.5	468	7.96	7.36	83.8
10/31/2007	5:15:00	13.4	466	7.97	7.35	83.5
10/31/2007	5:30:00	13.3	462	7.98	7.38	83.5
10/31/2007	5:45:00	13.1	460	7.99	7.29	82.3
10/31/2007	6:00:00	13.0	455	8.00	7.38	83.0
10/31/2007	6:15:00	12.9	453	8.00	7.42	83.2
10/31/2007	6:30:00	12.8	451	8.01	7.38	82.6
10/31/2007	6:45:00	12.6	448	8.02	7.50	83.6
10/31/2007	7:00:00	12.4	443	8.04	7.53	83.6
10/31/2007	7:15:00	12.2	440	8.05	7.60	84.1
10/31/2007	7:30:00	12.1	438	8.06	7.63	84.2
10/31/2007	7:45:00	12.0	437	8.07	7.63	84.0
10/31/2007	8:00:00	11.9	435	8.08	7.37	80.9
10/31/2007	8:15:00	11.8	433	8.10	7.68	84.1
10/31/2007	8:30:00	11.7	430	8.11	7.71	84.3
10/31/2007	8:45:00	11.7	427	8.13	7.50	82.0
10/31/2007	9:00:00	11.7	425	8.14	7.84	85.7
10/31/2007	9:15:00	11.9	425	8.15	7.90	86.7
10/31/2007	9:30:00	11.9	423	8.16	7.98	87.7
10/31/2007	9:45:00	12.2	423	8.18	8.06	89.0
10/31/2007	10:00:00	12.4	422	8.20	8.09	89.8
10/31/2007	10:15:00	12.6	420	8.22	8.15	91.0
10/31/2007	10:30:00	12.9	417	8.23	8.07	90.6
10/31/2007	10:45:00	13.2	417	8.24	8.12	91.8
10/31/2007	11:00:00	13.5	417	8.25	8.10	92.0
10/31/2007	11:15:00	13.8	417	8.26	8.04	92.2
10/31/2007	11:30:00	14.1	415	8.27	8.16	94.0
10/31/2007	11:45:00	14.4	416	8.28	8.02	92.9
10/31/2007	12:00:00	14.7	417	8.28	8.02	93.8
10/31/2007	12:15:00	15.1	419	8.29	7.85	92.5
10/31/2007	12:30:00	15.5	421	8.29	7.95	94.4
10/31/2007	12:45:00	15.8	423	8.28	8.03	96.0
10/31/2007	13:00:00	16.3	428	8.28	7.93	95.7
10/31/2007	13:15:00	16.7	434	8.27	7.78	94.9
10/31/2007	13:30:00	17.1	438	8.27	7.78	95.6
10/31/2007	13:45:00	17.5	440	8.26	7.90	97.9
10/31/2007	14:00:00	17.9	446	8.26	7.75	96.8
10/31/2007	14:15:00	18.2	447	8.26	7.40	93.0
10/31/2007	14:30:00	18.5	451	8.25	7.60	96.2
10/31/2007	14:45:00	18.7	453	8.25	7.55	95.9
10/31/2007	15:00:00	18.8	452	8.26	7.42	94.4

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/31/2007	15:15:00	18.8	431	8.31	7.12	90.7
10/31/2007	15:30:00	18.6	398	8.40	7.52	95.3
10/31/2007	15:45:00	18.3	376	8.45	7.58	95.5
10/31/2007	16:00:00	18.0	365	8.50	7.65	95.8
10/31/2007	16:15:00	17.9	359	8.52	7.55	94.3
10/31/2007	16:30:00	17.6	355	8.53	7.64	94.9
10/31/2007	16:45:00	17.5	383	8.44	7.43	92.1
10/31/2007	17:00:00	17.9	442	8.23	7.16	89.3
10/31/2007	17:15:00	18.0	447	8.19	6.91	86.5
10/31/2007	17:30:00	17.9	445	8.16	7.00	87.4
10/31/2007	17:45:00	17.9	478	8.06	6.56	81.9
10/31/2007	18:00:00	17.9	488	8.01	6.57	82.1
10/31/2007	18:15:00	17.8	502	7.94	6.72	83.9
10/31/2007	18:30:00	17.6	502	7.90	6.48	80.5
10/31/2007	18:45:00	17.3	503	7.88	6.19	76.4
10/31/2007	19:00:00	17.0	501	7.83	6.08	74.7
10/31/2007	19:15:00	16.7	486	7.83	6.10	74.5
10/31/2007	19:30:00	16.5	479	7.87	6.14	74.5
10/31/2007	19:45:00	16.2	476	7.88	6.44	77.6
10/31/2007	20:00:00	15.9	471	7.89	6.45	77.3
10/31/2007	20:15:00	15.7	470	7.91	6.47	77.1
10/31/2007	20:30:00	15.4	468	7.92	6.44	76.4
10/31/2007	20:45:00	15.2	468	7.94	6.66	78.7
10/31/2007	21:00:00	15.0	466	7.96	6.52	76.7
10/31/2007	21:15:00	14.8	464	7.97	6.60	77.3
10/31/2007	21:30:00	14.6	463	7.99	6.60	76.9
10/31/2007	21:45:00	14.4	462	7.99	6.63	76.8
10/31/2007	22:00:00	14.2	464	8.00	6.79	78.4
10/31/2007	22:15:00	14.0	463	8.00	6.61	76.0
10/31/2007	22:30:00	13.9	463	8.00	6.89	79.0
10/31/2007	22:45:00	13.8	462	8.00	6.91	79.1
10/31/2007	23:00:00	13.7	464	8.00	6.75	77.2
10/31/2007	23:15:00	13.6	465	8.00	6.83	77.9
10/31/2007	23:30:00	13.5	467	8.00	6.73	76.6
10/31/2007	23:45:00	13.4	467	7.99	6.76	76.7
11/1/2007	0:00:00	13.3	467	8.00	6.84	77.5
11/1/2007	0:15:00	13.2	467	7.99	6.80	76.9
11/1/2007	0:30:00	13.1	467	7.99	6.86	77.3
11/1/2007	0:45:00	13.0	469	7.98	6.76	76.0
11/1/2007	1:00:00	12.8	469	7.99	6.77	75.8
11/1/2007	1:15:00	12.7	470	7.98	6.79	75.9
11/1/2007	1:30:00	12.6	470	7.99	6.85	76.3
11/1/2007	1:45:00	12.4	469	7.98	6.98	77.4
11/1/2007	2:00:00	12.3	470	7.98	7.05	78.1
11/1/2007	2:15:00	12.1	468	7.99	6.98	77.0

Table 5.44. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

11/1/2007	2:30:00	12.0	465	7.99	6.98	76.8
11/1/2007	2:45:00	11.9	463	7.99	7.09	77.8
11/1/2007	3:00:00	11.8	463	7.99	7.16	78.4
11/1/2007	3:15:00	11.7	463	7.99	7.16	78.3
11/1/2007	3:30:00	11.6	462	7.99	7.07	77.1
11/1/2007	3:45:00	11.5	459	7.99	7.09	77.2
11/1/2007	4:00:00	11.5	458	7.99	7.02	76.3
11/1/2007	4:15:00	11.4	454	7.99	7.05	76.5
11/1/2007	4:30:00	11.4	453	8.00	7.05	76.5
11/1/2007	4:45:00	11.2	448	8.01	7.10	76.8
11/1/2007	5:00:00	11.2	448	8.01	7.07	76.4
11/1/2007	5:15:00	11.1	443	8.02	7.13	76.9
11/1/2007	5:30:00	11.0	441	8.02	7.12	76.6
11/1/2007	5:45:00	11.0	438	8.03	7.12	76.5
11/1/2007	6:00:00	10.9	434	8.04	7.17	76.8
11/1/2007	6:15:00	10.7	430	8.05	7.19	76.8
11/1/2007	6:30:00	10.6	427	8.06	7.22	77.0
11/1/2007	6:45:00	10.6	426	8.06	7.17	76.4
11/1/2007	7:00:00	10.5	425	8.07	7.22	76.7
11/1/2007	7:15:00	10.4	421	8.08	7.22	76.5
11/1/2007	7:30:00	10.2	420	8.09	7.21	76.2
11/1/2007	7:45:00	10.1	417	8.10	7.25	76.4
11/1/2007	8:00:00	10.1	417	8.11	7.27	76.5
11/1/2007	8:15:00	10.0	415	8.12	7.30	76.6
11/1/2007	8:30:00	10.0	411	8.13	7.34	77.1
11/1/2007	8:45:00	10.1	413	8.13	7.37	77.6
11/1/2007	9:00:00	10.1	412	8.14	7.38	77.8
11/1/2007	9:15:00	10.2	411	8.16	7.41	78.1
11/1/2007	9:30:00	10.3	409	8.17	7.54	79.6
11/1/2007	9:45:00	10.5	408	8.18	7.56	80.2
11/1/2007	10:00:00	10.7	410	8.18	7.61	81.1
11/1/2007	10:15:00	11.0	414	8.18	7.58	81.5
11/1/2007	10:30:00	11.2	407	8.20	7.61	82.2
11/1/2007	10:45:00	11.5	409	8.20	7.69	83.6
11/1/2007	11:00:00	11.7	403	8.23	7.60	83.1
11/1/2007	11:15:00	12.0	400	8.24	7.62	83.8

Table 5.45. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45473**	**Name**	**:**	**Nike**
Log	**File**	**Name**	**:**	**site4_10_22_07Ni**
Setup	**Date**	**(MMDDYY)**	**:**	**10/22/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**13:57:14**
Starting	**Date**	**(MMDDYY)**	**:**	**10/22/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**15:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**10/26/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**13:24:21**
Measurement	**Interval**	**(HHMMSS)**	**:**	**900**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/22/2007	15:00:00	17.47	9.76	119.3
10/22/2007	15:15:00	17.64	9.70	119.0
10/22/2007	15:30:00	17.62	9.64	118.1
10/22/2007	15:45:00	17.70	9.64	118.4
10/22/2007	16:00:00	17.54	9.54	116.8
10/22/2007	16:15:00	17.12	9.46	114.7
10/22/2007	16:30:00	16.61	9.37	112.4
10/22/2007	16:45:00	16.21	9.31	110.8
10/22/2007	17:00:00	15.82	9.26	109.3
10/22/2007	17:15:00	15.52	9.23	108.2
10/22/2007	17:30:00	15.24	9.17	106.8
10/22/2007	17:45:00	14.89	9.06	104.7
10/22/2007	18:00:00	14.45	8.96	102.6
10/22/2007	18:15:00	14.07	8.87	100.8
10/22/2007	18:30:00	13.72	8.76	98.7
10/22/2007	18:45:00	13.41	8.68	97.2
10/22/2007	19:00:00	13.12	8.62	95.9
10/22/2007	19:15:00	12.81	8.57	94.6
10/22/2007	19:30:00	12.49	8.53	93.5
10/22/2007	19:45:00	12.16	8.51	92.6
10/22/2007	20:00:00	11.82	8.52	91.9
10/22/2007	20:15:00	11.46	8.53	91.3
10/22/2007	20:30:00	11.17	8.56	91.1
10/22/2007	20:45:00	10.84	8.59	90.6
10/22/2007	21:00:00	10.56	8.63	90.5
10/22/2007	21:15:00	10.23	8.69	90.3
10/22/2007	21:30:00	9.93	8.74	90.3
10/22/2007	21:45:00	9.66	8.80	90.2
10/22/2007	22:00:00	9.39	8.85	90.3
10/22/2007	22:15:00	9.15	8.90	90.3
10/22/2007	22:30:00	8.93	8.95	90.3
10/22/2007	22:45:00	8.67	9.01	90.3
10/22/2007	23:00:00	8.41	9.07	90.3
10/22/2007	23:15:00	8.16	9.13	90.3
10/22/2007	23:30:00	7.94	9.17	90.3

Table 5.45. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/22/2007	23:45:00	7.72	9.24	90.5
10/23/2007	0:00:00	7.52	9.30	90.6
10/23/2007	0:15:00	7.29	9.36	90.7
10/23/2007	0:30:00	7.07	9.41	90.6
10/23/2007	0:45:00	6.87	9.46	90.7
10/23/2007	1:00:00	6.67	9.51	90.7
10/23/2007	1:15:00	6.43	9.56	90.6
10/23/2007	1:30:00	6.24	9.62	90.7
10/23/2007	1:45:00	6.06	9.68	90.9
10/23/2007	2:00:00	5.88	9.72	90.9
10/23/2007	2:15:00	5.70	9.76	90.8
10/23/2007	2:30:00	5.52	9.83	91.1
10/23/2007	2:45:00	5.34	9.90	91.2
10/23/2007	3:00:00	5.16	9.94	91.2
10/23/2007	3:15:00	5.01	9.99	91.3
10/23/2007	3:30:00	4.81	10.05	91.4
10/23/2007	3:45:00	4.67	10.11	91.6
10/23/2007	4:00:00	4.53	10.16	91.7
10/23/2007	4:15:00	4.34	10.21	91.7
10/23/2007	4:30:00	4.01	10.21	90.9
10/23/2007	4:45:00	4.03	10.25	91.3
10/23/2007	5:00:00	3.95	10.29	91.5
10/23/2007	5:15:00	3.99	10.32	91.9
10/23/2007	5:30:00	3.95	10.33	91.9
10/23/2007	5:45:00	3.92	10.34	91.8
10/23/2007	6:00:00	3.87	10.35	91.8
10/23/2007	6:15:00	3.81	10.37	91.8
10/23/2007	6:30:00	3.73	10.39	91.8
10/23/2007	6:45:00	3.70	10.41	91.9
10/23/2007	7:00:00	3.65	10.42	91.9
10/23/2007	7:15:00	3.63	10.43	91.9
10/23/2007	7:30:00	3.62	10.44	92.0
10/23/2007	7:45:00	3.62	10.47	92.2
10/23/2007	8:00:00	3.65	10.49	92.6
10/23/2007	8:15:00	3.75	10.54	93.2
10/23/2007	8:30:00	3.97	10.59	94.2
10/23/2007	8:45:00	4.19	10.62	95.1
10/23/2007	9:00:00	4.47	10.67	96.2
10/23/2007	9:15:00	4.78	10.70	97.2
10/23/2007	9:30:00	5.14	10.73	98.4
10/23/2007	9:45:00	5.57	10.74	99.6
10/23/2007	10:00:00	6.06	10.75	100.9
10/23/2007	10:15:00	6.56	10.76	102.3
10/23/2007	10:30:00	7.09	10.74	103.6
10/23/2007	10:45:00	7.67	10.73	105.0
10/23/2007	11:00:00	8.27	10.72	106.3

Table 5.45. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	11:15:00	8.90	10.67	107.5
10/23/2007	11:30:00	9.53	10.64	108.9
10/23/2007	11:45:00	10.18	10.60	110.1
10/23/2007	12:00:00	10.81	10.55	111.2
10/23/2007	12:15:00	11.47	10.50	112.4
10/23/2007	12:30:00	12.11	10.46	113.6
10/23/2007	12:45:00	12.79	10.39	114.7
10/23/2007	13:00:00	13.41	10.33	115.7
10/23/2007	13:15:00	14.07	10.26	116.5
10/23/2007	13:30:00	14.34	10.18	116.3
10/23/2007	13:45:00	14.59	10.05	115.5
10/23/2007	14:00:00	15.14	9.88	114.8
10/23/2007	14:15:00	15.47	9.88	115.7
10/23/2007	14:30:00	15.74	9.63	113.5
10/23/2007	14:45:00	16.28	9.35	111.4
10/23/2007	15:00:00	16.59	9.54	114.4
10/23/2007	15:15:00	16.89	9.39	113.4
10/23/2007	15:30:00	17.29	8.98	109.3
10/23/2007	15:45:00	17.46	8.82	107.7
10/23/2007	16:00:00	17.44	8.60	105.0
10/23/2007	16:15:00	17.47	8.36	102.1
10/23/2007	16:30:00	17.67	8.16	100.1
10/23/2007	16:45:00	17.74	8.06	99.0
10/23/2007	17:00:00	17.89	8.27	101.9
10/23/2007	17:15:00	17.89	8.35	102.9
10/23/2007	17:30:00	17.86	8.41	103.5
10/23/2007	17:45:00	17.78	8.20	100.8
10/23/2007	18:00:00	17.62	7.91	96.9
10/23/2007	18:15:00	17.50	7.67	93.8
10/23/2007	18:30:00	17.36	7.56	92.1
10/23/2007	18:45:00	17.18	7.41	89.9
10/23/2007	19:00:00	16.98	7.29	88.2
10/23/2007	19:15:00	16.79	7.44	89.6
10/23/2007	19:30:00	16.54	7.49	89.7
10/23/2007	19:45:00	16.30	7.39	88.1
10/23/2007	20:00:00	16.07	7.22	85.6
10/23/2007	20:15:00	15.86	7.04	83.1
10/23/2007	20:30:00	15.68	6.88	80.9
10/23/2007	20:45:00	15.54	6.72	78.8
10/23/2007	21:00:00	15.32	6.67	77.9
10/23/2007	21:15:00	15.12	6.69	77.7
10/23/2007	21:30:00	14.85	6.77	78.2
10/23/2007	21:45:00	14.61	6.85	78.7
10/23/2007	22:00:00	14.38	6.99	79.9
10/23/2007	22:15:00	14.03	7.38	83.7
10/23/2007	22:30:00	13.66	7.58	85.3

Table 5.45. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	22:45:00	13.34	7.59	84.9
10/23/2007	23:00:00	13.17	7.55	84.0
10/23/2007	23:15:00	13.02	7.50	83.2
10/23/2007	23:30:00	12.88	7.47	82.6
10/23/2007	23:45:00	12.67	7.50	82.6
10/24/2007	0:00:00	12.49	7.58	83.1
10/24/2007	0:15:00	12.37	7.57	82.7
10/24/2007	0:30:00	12.26	7.54	82.2
10/24/2007	0:45:00	12.14	7.47	81.2
10/24/2007	1:00:00	11.99	7.40	80.2
10/24/2007	1:15:00	11.89	7.35	79.5
10/24/2007	1:30:00	11.74	7.33	79.0
10/24/2007	1:45:00	11.52	7.46	79.9
10/24/2007	2:00:00	11.31	7.58	80.9
10/24/2007	2:15:00	11.18	7.65	81.4
10/24/2007	2:30:00	11.08	7.66	81.3
10/24/2007	2:45:00	10.95	7.66	81.0
10/24/2007	3:00:00	10.83	7.73	81.5
10/24/2007	3:15:00	10.73	7.71	81.2
10/24/2007	3:30:00	10.63	7.73	81.1
10/24/2007	3:45:00	10.52	7.74	81.1
10/24/2007	4:00:00	10.38	7.74	80.8
10/24/2007	4:15:00	10.27	7.66	79.7
10/24/2007	4:30:00	10.14	7.53	78.2
10/24/2007	4:45:00	9.99	7.43	76.9
10/24/2007	5:00:00	9.83	7.35	75.8
10/24/2007	5:15:00	9.71	7.33	75.3
10/24/2007	5:30:00	9.64	7.47	76.7
10/24/2007	5:45:00	9.53	7.45	76.2
10/24/2007	6:00:00	9.31	7.47	76.0
10/24/2007	6:15:00	9.12	7.96	80.6
10/24/2007	6:30:00	9.04	8.33	84.3
10/24/2007	6:45:00	8.99	8.42	85.1
10/24/2007	7:00:00	8.77	9.06	91.0
10/24/2007	7:15:00	8.37	9.23	91.8
10/24/2007	7:30:00	8.29	9.29	92.2
10/24/2007	7:45:00	8.21	9.33	92.4
10/24/2007	8:00:00	8.17	9.37	92.8
10/24/2007	8:15:00	8.18	9.44	93.5
10/24/2007	8:30:00	8.24	9.52	94.4
10/24/2007	8:45:00	8.33	9.59	95.3
10/24/2007	9:00:00	8.46	9.66	96.3
10/24/2007	9:15:00	8.62	9.72	97.2
10/24/2007	9:30:00	8.76	9.79	98.3
10/24/2007	9:45:00	9.08	9.86	99.8
10/24/2007	10:00:00	9.44	9.91	101.1

Table 5.45. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	10:15:00	9.81	9.96	102.6
10/24/2007	10:30:00	10.21	9.98	103.8
10/24/2007	10:45:00	10.62	10.00	105.0
10/24/2007	11:00:00	11.05	10.01	106.2
10/24/2007	11:15:00	11.54	10.03	107.5
10/24/2007	11:30:00	12.06	10.03	108.9
10/24/2007	11:45:00	12.57	10.03	110.1
10/24/2007	12:00:00	13.14	10.02	111.5
10/24/2007	12:15:00	13.69	9.99	112.5
10/24/2007	12:30:00	14.23	9.97	113.6
10/24/2007	12:45:00	14.78	9.95	114.7
10/24/2007	13:00:00	15.31	9.91	115.7
10/24/2007	13:15:00	15.86	9.89	116.7
10/24/2007	13:30:00	16.37	9.84	117.5
10/24/2007	13:45:00	16.83	9.82	118.3
10/24/2007	14:00:00	17.27	9.78	119.0
10/24/2007	14:15:00	17.71	9.76	119.8
10/24/2007	14:30:00	18.08	9.74	120.5
10/24/2007	14:45:00	18.43	9.70	120.9
10/24/2007	15:00:00	18.78	9.68	121.5
10/24/2007	15:15:00	19.06	9.66	121.9
10/24/2007	15:30:00	19.28	9.62	122.0
10/24/2007	15:45:00	19.46	9.62	122.4
10/24/2007	16:00:00	19.58	9.58	122.2
10/24/2007	16:15:00	19.59	9.53	121.6
10/24/2007	16:30:00	19.61	9.49	121.1
10/24/2007	16:45:00	19.57	9.42	120.2
10/24/2007	17:00:00	19.46	9.28	118.1
10/24/2007	17:15:00	19.27	9.13	115.7
10/24/2007	17:30:00	18.99	8.97	113.0
10/24/2007	17:45:00	18.74	8.76	109.9
10/24/2007	18:00:00	18.48	8.53	106.4
10/24/2007	18:15:00	18.24	8.39	104.1
10/24/2007	18:30:00	17.96	8.24	101.7
10/24/2007	18:45:00	17.66	8.09	99.2
10/24/2007	19:00:00	17.33	7.97	97.1
10/24/2007	19:15:00	17.01	7.89	95.5
10/24/2007	19:30:00	16.68	7.86	94.4
10/24/2007	19:45:00	16.37	7.84	93.5
10/24/2007	20:00:00	16.07	7.84	92.9
10/24/2007	20:15:00	15.76	7.85	92.5
10/24/2007	20:30:00	15.47	7.87	92.2
10/24/2007	20:45:00	15.20	7.90	92.0
10/24/2007	21:00:00	14.91	7.93	91.7
10/24/2007	21:15:00	14.63	7.96	91.5
10/24/2007	21:30:00	14.34	8.00	91.4

Table 5.45. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	21:45:00	14.07	8.04	91.3
10/24/2007	22:00:00	13.79	8.09	91.3
10/24/2007	22:15:00	13.53	8.14	91.3
10/24/2007	22:30:00	13.26	8.19	91.3
10/24/2007	22:45:00	12.99	8.23	91.2
10/24/2007	23:00:00	12.73	8.28	91.2
10/24/2007	23:15:00	12.49	8.33	91.3
10/24/2007	23:30:00	12.23	8.39	91.4
10/24/2007	23:45:00	11.98	8.44	91.4
10/25/2007	0:00:00	11.74	8.49	91.5
10/25/2007	0:15:00	11.52	8.54	91.6
10/25/2007	0:30:00	11.28	8.58	91.5
10/25/2007	0:45:00	11.06	8.63	91.5
10/25/2007	1:00:00	10.86	8.67	91.5
10/25/2007	1:15:00	10.67	8.72	91.7
10/25/2007	1:30:00	10.48	8.77	91.7
10/25/2007	1:45:00	10.32	8.81	91.8
10/25/2007	2:00:00	10.13	8.84	91.7
10/25/2007	2:15:00	9.97	8.88	91.8
10/25/2007	2:30:00	9.82	8.93	91.9
10/25/2007	2:45:00	9.67	8.96	92.0
10/25/2007	3:00:00	9.52	9.00	92.1
10/25/2007	3:15:00	9.36	9.04	92.1
10/25/2007	3:30:00	9.19	9.07	92.1
10/25/2007	3:45:00	9.04	9.12	92.3
10/25/2007	4:00:00	8.88	9.16	92.3
10/25/2007	4:15:00	8.70	9.20	92.3
10/25/2007	4:30:00	8.56	9.24	92.4
10/25/2007	4:45:00	8.41	9.28	92.4
10/25/2007	5:00:00	8.26	9.31	92.3
10/25/2007	5:15:00	8.12	9.34	92.4
10/25/2007	5:30:00	7.98	9.37	92.4
10/25/2007	5:45:00	7.85	9.41	92.4
10/25/2007	6:00:00	7.71	9.44	92.4
10/25/2007	6:15:00	7.58	9.47	92.4
10/25/2007	6:30:00	7.45	9.50	92.4
10/25/2007	6:45:00	7.32	9.53	92.4
10/25/2007	7:00:00	7.21	9.56	92.4
10/25/2007	7:15:00	7.07	9.59	92.3
10/25/2007	7:30:00	6.96	9.62	92.4
10/25/2007	7:45:00	6.86	9.68	92.7
10/25/2007	8:00:00	6.77	9.77	93.4
10/25/2007	8:15:00	6.78	9.90	94.6
10/25/2007	8:30:00	6.88	10.05	96.4
10/25/2007	8:45:00	7.07	10.19	98.1
10/25/2007	9:00:00	7.36	10.30	100.0

Table 5.45. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	9:15:00	7.71	10.37	101.5
10/25/2007	9:30:00	8.07	10.40	102.7
10/25/2007	9:45:00	8.52	10.44	104.2
10/25/2007	10:00:00	9.03	10.48	105.9
10/25/2007	10:15:00	9.59	10.50	107.6
10/25/2007	10:30:00	10.18	10.51	109.2
10/25/2007	10:45:00	10.78	10.51	110.7
10/25/2007	11:00:00	11.39	10.50	112.2
10/25/2007	11:15:00	12.02	10.50	113.8
10/25/2007	11:30:00	12.69	10.47	115.3
10/25/2007	11:45:00	13.34	10.43	116.6
10/25/2007	12:00:00	13.97	10.44	118.3
10/25/2007	12:15:00	14.59	10.45	120.1
10/25/2007	12:30:00	15.19	10.43	121.4
10/25/2007	12:45:00	15.78	10.35	122.0
10/25/2007	13:00:00	16.40	10.35	123.7
10/25/2007	13:15:00	16.99	10.32	124.8
10/25/2007	13:30:00	17.57	10.23	125.3
10/25/2007	13:45:00	18.13	10.17	126.0
10/25/2007	14:00:00	18.69	10.21	127.9
10/25/2007	14:15:00	19.16	10.12	128.0
10/25/2007	14:30:00	19.61	10.08	128.7
10/25/2007	14:45:00	20.03	10.04	129.3
10/25/2007	15:00:00	20.39	10.04	130.2
10/25/2007	15:15:00	20.66	9.95	129.7
10/25/2007	15:30:00	20.88	9.95	130.3
10/25/2007	15:45:00	21.06	9.93	130.4
10/25/2007	16:00:00	21.08	9.80	128.9
10/25/2007	16:15:00	21.08	9.80	128.9
10/25/2007	16:30:00	21.07	9.70	127.6
10/25/2007	16:45:00	20.97	9.57	125.6
10/25/2007	17:00:00	20.78	9.43	123.2
10/25/2007	17:15:00	20.53	9.17	119.2
10/25/2007	17:30:00	20.22	8.92	115.4
10/25/2007	17:45:00	19.93	8.64	111.1
10/25/2007	18:00:00	19.63	8.34	106.5
10/25/2007	18:15:00	19.33	8.16	103.6
10/25/2007	18:30:00	19.01	7.96	100.4
10/25/2007	18:45:00	18.67	7.78	97.4
10/25/2007	19:00:00	18.33	7.64	95.1
10/25/2007	19:15:00	17.97	7.58	93.5
10/25/2007	19:30:00	17.64	7.55	92.5
10/25/2007	19:45:00	17.32	7.54	91.8
10/25/2007	20:00:00	16.96	7.54	91.1
10/25/2007	20:15:00	16.63	7.57	90.8
10/25/2007	20:30:00	16.31	7.59	90.5

Table 5.45. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	20:45:00	15.99	7.62	90.2
10/25/2007	21:00:00	15.73	7.66	90.2
10/25/2007	21:15:00	15.44	7.70	90.1
10/25/2007	21:30:00	15.14	7.74	89.9
10/25/2007	21:45:00	14.86	7.79	90.0
10/25/2007	22:00:00	14.55	7.83	89.9
10/25/2007	22:15:00	14.27	7.89	90.0
10/25/2007	22:30:00	13.99	7.94	90.0
10/25/2007	22:45:00	13.71	7.99	90.0
10/25/2007	23:00:00	13.41	8.05	90.1
10/25/2007	23:15:00	13.14	8.11	90.2
10/25/2007	23:30:00	12.88	8.16	90.2
10/25/2007	23:45:00	12.62	8.21	90.3
10/26/2007	0:00:00	12.38	8.26	90.3
10/26/2007	0:15:00	12.12	8.32	90.4
10/26/2007	0:30:00	11.88	8.38	90.5
10/26/2007	0:45:00	11.65	8.43	90.6
10/26/2007	1:00:00	11.43	8.47	90.7
10/26/2007	1:15:00	11.22	8.52	90.7
10/26/2007	1:30:00	11.00	8.58	90.8
10/26/2007	1:45:00	10.79	8.63	90.9
10/26/2007	2:00:00	10.58	8.68	91.0
10/26/2007	2:15:00	10.37	8.73	91.2
10/26/2007	2:30:00	10.16	8.78	91.2
10/26/2007	2:45:00	9.96	8.83	91.3
10/26/2007	3:00:00	9.74	8.88	91.3
10/26/2007	3:15:00	9.54	8.93	91.4
10/26/2007	3:30:00	9.34	8.98	91.5
10/26/2007	3:45:00	9.14	9.03	91.5
10/26/2007	4:00:00	8.95	9.08	91.6
10/26/2007	4:15:00	8.75	9.12	91.6
10/26/2007	4:30:00	8.56	9.17	91.7
10/26/2007	4:45:00	8.36	9.21	91.6
10/26/2007	5:00:00	8.21	9.25	91.7
10/26/2007	5:15:00	8.03	9.29	91.6
10/26/2007	5:30:00	7.85	9.33	91.7
10/26/2007	5:45:00	7.69	9.38	91.8
10/26/2007	6:00:00	7.51	9.42	91.8
10/26/2007	6:15:00	7.35	9.46	91.8
10/26/2007	6:30:00	7.20	9.50	91.8
10/26/2007	6:45:00	7.03	9.53	91.8
10/26/2007	7:00:00	6.89	9.58	91.8
10/26/2007	7:15:00	6.74	9.62	91.9
10/26/2007	7:30:00	6.61	9.66	92.0
10/26/2007	7:45:00	6.48	9.72	92.3
10/26/2007	8:00:00	6.40	9.82	93.0

Table 5.45. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/26/2007	8:15:00	6.39	9.95	94.3
10/26/2007	8:30:00	6.52	10.12	96.1
10/26/2007	8:45:00	6.73	10.26	98.0
10/26/2007	9:00:00	7.03	10.40	100.0
10/26/2007	9:15:00	7.38	10.50	101.9
10/26/2007	9:30:00	7.79	10.58	103.7
10/26/2007	9:45:00	8.24	10.62	105.3
10/26/2007	10:00:00	8.78	10.66	107.1
10/26/2007	10:15:00	9.37	10.70	109.0
10/26/2007	10:30:00	10.01	10.73	111.0
10/26/2007	10:45:00	10.68	10.75	113.0
10/26/2007	11:00:00	11.39	10.79	115.4
10/26/2007	11:15:00	12.08	10.80	117.3
10/26/2007	11:30:00	12.78	10.82	119.4

Table 5.46. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**SITE4-10-22-07**
Setup	**Date**	**(MMDDYY)**	**:**	**10/18/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**160310**
Starting	**Date**	**(MMDDYY)**	**:**	**10/22/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**130000**
Stopping	**Date**	**(MMDDYY)**	**:**	**11/2/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
10/22/2007	15:00:00	17.4	463	8.59	6.54	79.7
10/22/2007	15:15:00	17.6	464	8.60	6.69	81.8
10/22/2007	15:30:00	17.6	465	8.61	6.52	79.7
10/22/2007	15:45:00	17.6	466	8.62	6.59	80.7
10/22/2007	16:00:00	17.4	468	8.63	6.55	79.9
10/22/2007	16:15:00	17.0	470	8.64	6.46	78.1
10/22/2007	16:30:00	16.6	471	8.65	6.86	82.2
10/22/2007	16:45:00	16.2	471	8.66	6.27	74.5
10/22/2007	17:00:00	15.8	471	8.66	6.71	79.0
10/22/2007	17:15:00	15.5	472	8.67	6.53	76.4
10/22/2007	17:30:00	15.2	472	8.67	6.12	71.1
10/22/2007	17:45:00	14.9	472	8.67	6.46	74.6
10/22/2007	18:00:00	14.4	472	8.66	6.28	71.8
10/22/2007	18:15:00	14.0	473	8.66	6.18	70.0
10/22/2007	18:30:00	13.7	473	8.65	6.18	69.5
10/22/2007	18:45:00	13.4	473	8.64	6.24	69.8
10/22/2007	19:00:00	13.1	474	8.63	6.15	68.3
10/22/2007	19:15:00	12.8	474	8.62	6.24	68.8
10/22/2007	19:30:00	12.5	474	8.61	6.13	67.1
10/22/2007	19:45:00	12.1	474	8.61	6.10	66.3
10/22/2007	20:00:00	11.8	474	8.60	6.42	69.2
10/22/2007	20:15:00	11.4	474	8.59	6.16	65.9
10/22/2007	20:30:00	11.1	475	8.59	6.15	65.3
10/22/2007	20:45:00	10.8	475	8.58	6.56	69.1
10/22/2007	21:00:00	10.5	475	8.58	6.57	68.9
10/22/2007	21:15:00	10.2	475	8.57	6.78	70.5
10/22/2007	21:30:00	9.9	476	8.57	6.64	68.6
10/22/2007	21:45:00	9.7	476	8.57	6.49	66.6
10/22/2007	22:00:00	9.4	476	8.56	6.72	68.5
10/22/2007	22:15:00	9.2	477	8.56	6.94	70.4
10/22/2007	22:30:00	8.9	477	8.56	6.87	69.3
10/22/2007	22:45:00	8.7	477	8.55	6.94	69.6
10/22/2007	23:00:00	8.4	477	8.55	6.88	68.6

Table 5.46. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/22/2007	23:15:00	8.2	477	8.55	6.92	68.6
10/22/2007	23:30:00	8.0	476	8.55	7.30	71.9
10/22/2007	23:45:00	7.7	476	8.55	7.13	69.8
10/23/2007	0:00:00	7.5	476	8.55	7.32	71.4
10/23/2007	0:15:00	7.3	475	8.54	7.08	68.7
10/23/2007	0:30:00	7.1	475	8.54	7.41	71.4
10/23/2007	0:45:00	6.9	474	8.54	7.39	71.0
10/23/2007	1:00:00	6.7	473	8.54	7.25	69.2
10/23/2007	1:15:00	6.5	472	8.53	7.39	70.1
10/23/2007	1:30:00	6.3	471	8.53	7.37	69.7
10/23/2007	1:45:00	6.1	470	8.53	7.66	72.0
10/23/2007	2:00:00	5.9	468	8.53	7.90	74.0
10/23/2007	2:15:00	5.7	468	8.53	7.76	72.3
10/23/2007	2:30:00	5.6	465	8.53	7.48	69.4
10/23/2007	2:45:00	5.4	464	8.53	7.60	70.2
10/23/2007	3:00:00	5.2	462	8.53	7.45	68.5
10/23/2007	3:15:00	5.0	461	8.54	7.71	70.6
10/23/2007	3:30:00	4.9	458	8.54	8.10	73.8
10/23/2007	3:45:00	4.7	457	8.54	7.89	71.6
10/23/2007	4:00:00	4.6	456	8.53	8.03	72.7
10/23/2007	4:15:00	4.4	454	8.53	7.93	71.4
10/23/2007	4:30:00	4.1	453	8.54	7.96	71.1
10/23/2007	4:45:00	4.1	450	8.53	8.20	73.2
10/23/2007	5:00:00	4.0	446	8.53	8.65	77.1
10/23/2007	5:15:00	4.0	443	8.53	8.38	74.7
10/23/2007	5:30:00	4.0	439	8.52	8.32	74.1
10/23/2007	5:45:00	4.0	438	8.51	8.55	76.1
10/23/2007	6:00:00	3.9	435	8.51	8.24	73.3
10/23/2007	6:15:00	3.8	434	8.51	8.35	74.1
10/23/2007	6:30:00	3.8	433	8.50	8.42	74.5
10/23/2007	6:45:00	3.7	433	8.50	8.47	75.0
10/23/2007	7:00:00	3.7	434	8.50	8.35	73.8
10/23/2007	7:15:00	3.6	436	8.49	8.37	73.8
10/23/2007	7:30:00	3.6	439	8.49	8.61	76.0
10/23/2007	7:45:00	3.6	440	8.48	8.62	76.1
10/23/2007	8:00:00	3.7	442	8.48	8.62	76.1
10/23/2007	8:15:00	3.8	443	8.48	8.64	76.5
10/23/2007	8:30:00	4.0	444	8.48	8.70	77.4
10/23/2007	8:45:00	4.2	444	8.47	8.66	77.6
10/23/2007	9:00:00	4.5	444	8.47	8.78	79.2
10/23/2007	9:15:00	4.8	442	8.47	8.70	79.1
10/23/2007	9:30:00	5.1	442	8.47	8.49	77.9
10/23/2007	9:45:00	5.5	441	8.47	8.73	81.0
10/23/2007	10:00:00	6.0	442	8.47	8.76	82.3
10/23/2007	10:15:00	6.5	444	8.47	8.82	83.8
10/23/2007	10:30:00	7.0	445	8.47	8.60	82.8

Table 5.46. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	10:45:00	7.6	446	8.46	8.82	86.2
10/23/2007	11:00:00	8.2	449	8.46	8.92	88.4
10/23/2007	11:15:00	8.8	451	8.46	8.86	89.1
10/23/2007	11:30:00	9.5	453	8.46	8.23	84.1
10/23/2007	11:45:00	10.1	456	8.45	8.34	86.4
10/23/2007	12:00:00	10.7	458	8.45	8.64	90.9
10/23/2007	12:15:00	11.4	460	8.45	8.78	93.8
10/23/2007	12:30:00	12.0	461	8.45	8.64	93.7
10/23/2007	12:45:00	12.7	462	8.45	8.99	98.9
10/23/2007	13:00:00	13.3	462	8.45	8.78	97.9
10/23/2007	13:15:00	13.9	461	8.46	8.81	99.7
10/23/2007	13:30:00	14.6	457	8.45	8.68	99.6
10/23/2007	13:45:00	15.1	451	8.46	8.73	101.3
10/23/2007	14:00:00	15.7	444	8.46	8.23	96.6
10/23/2007	14:15:00	16.2	435	8.46	8.12	96.5
10/23/2007	14:30:00	16.8	418	8.46	8.09	97.2
10/23/2007	14:45:00	17.2	377	8.47	8.01	97.2
10/23/2007	15:00:00	17.6	298	8.47	7.17	87.6
10/23/2007	15:15:00	17.9	211	8.48	7.75	95.3
10/23/2007	15:30:00	18.2	157	8.51	7.62	94.3
10/23/2007	15:45:00	18.0	150	8.56	3.64*	44.7
10/23/2007	16:00:00	17.9	148	8.48	3.24	39.8
10/23/2007	16:15:00	17.8	147	8.41	2.86	35.1
10/23/2007	16:30:00	17.9	146	8.37	2.47	30.4
10/23/2007	16:45:00	17.9	146	8.32	2.16	26.5
10/23/2007	17:00:00	17.8	146	8.31	2.00	24.5
10/23/2007	17:15:00	17.8	146	8.31	1.75	21.4
10/23/2007	17:30:00	17.6	146	8.28	1.61	19.7
10/23/2007	17:45:00	17.5	146	8.25	1.62	19.8
10/23/2007	18:00:00	17.4	145	8.22	1.53	18.6
10/23/2007	18:15:00	17.3	145	8.20	1.63	19.8
10/23/2007	18:30:00	17.2	145	8.22	1.43	17.3
10/23/2007	18:45:00	17.0	145	8.19	1.45	17.5
10/23/2007	19:00:00	16.8	145	8.17	1.39	16.8
10/23/2007	19:15:00	16.6	145	8.18	1.31	15.7
10/23/2007	19:30:00	16.5	145	8.18	1.28	15.3
10/23/2007	19:45:00	16.3	145	8.18	1.18	14.0
10/23/2007	20:00:00	16.1	145	8.16	1.13	13.4
10/23/2007	20:15:00	15.9	145	8.15	1.09	12.8
10/23/2007	20:30:00	15.8	145	8.14	1.07	12.5
10/23/2007	20:45:00	15.6	145	8.12	1.19	13.9
10/23/2007	21:00:00	15.3	145	8.11	1.16	13.5
10/23/2007	21:15:00	15.1	145	8.12	1.11	12.8
10/23/2007	21:30:00	14.9	145	8.12	1.04	12.0
10/23/2007	21:45:00	14.7	145	8.12	1.00	11.5
10/23/2007	22:00:00	14.6	145	8.12	1.04	11.9

Table 5.46. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	22:15:00	14.3	145	8.10	1.02	11.6
10/23/2007	22:30:00	14.1	145	8.11	1.00	11.3
10/23/2007	22:45:00	13.9	145	8.11	0.97	10.9
10/23/2007	23:00:00	13.8	145	8.09	1.00	11.3
10/23/2007	23:15:00	13.6	145	8.09	1.02	11.4
10/23/2007	23:30:00	13.4	144	8.08	1.00	11.2
10/23/2007	23:45:00	13.2	144	8.08	1.04	11.6
10/24/2007	0:00:00	12.9	144	8.08	1.08	11.9
10/24/2007	0:15:00	12.6	144	8.08	1.26	13.9
10/24/2007	0:30:00	12.4	144	8.09	1.23	13.5
10/24/2007	0:45:00	12.3	143	8.10	1.20	13.1
10/24/2007	1:00:00	12.2	143	8.12	1.17	12.7
10/24/2007	1:15:00	12.0	143	8.11	1.20	13.0
10/24/2007	1:30:00	11.9	143	8.11	1.17	12.6
10/24/2007	1:45:00	11.8	143	8.11	1.17	12.6
10/24/2007	2:00:00	11.7	142	8.10	1.22	13.1
10/24/2007	2:15:00	11.5	141	8.10	1.28	13.7
10/24/2007	2:30:00	11.3	141	8.08	1.39	14.9
10/24/2007	2:45:00	11.2	140	8.09	1.47	15.6
10/24/2007	3:00:00	11.0	140	8.10	1.35	14.3
10/24/2007	3:15:00	10.9	139	8.10	1.52	16.0
10/24/2007	3:30:00	10.7	139	8.10	1.60	16.8
10/24/2007	3:45:00	10.6	138	8.12	1.53	16.0
10/24/2007	4:00:00	10.5	138	8.10	1.68	17.5
10/24/2007	4:15:00	10.3	138	8.12	1.57	16.3
10/24/2007	4:30:00	10.2	137	8.12	1.60	16.6
10/24/2007	4:45:00	10.1	137	8.13	1.57	16.3
10/24/2007	5:00:00	10.0	137	8.11	1.74	18.0
10/24/2007	5:15:00	9.8	136	8.13	1.72	17.7
10/24/2007	5:30:00	9.7	136	8.12	1.67	17.1
10/24/2007	5:45:00	9.7	135	8.11	1.80	18.5
10/24/2007	6:00:00	9.6	135	8.12	1.83	18.7
10/24/2007	6:15:00	9.6	135	8.16	1.62	16.5
10/24/2007	6:30:00	9.6	135	8.16	1.53	15.7
10/24/2007	6:45:00	9.6	135	8.14	1.51	15.4
10/24/2007	7:00:00	9.6	135	8.11	1.55	15.9
10/24/2007	7:15:00	9.5	135	8.09	1.61	16.4
10/24/2007	7:30:00	9.4	135	8.08	1.71	17.4
10/24/2007	7:45:00	9.3	135	8.07	1.75	17.7
10/24/2007	8:00:00	9.2	135	8.08	1.79	18.2
10/24/2007	8:15:00	9.2	134	8.09	1.75	17.7
10/24/2007	8:30:00	9.1	135	8.07	1.88	19.0
10/24/2007	8:45:00	9.0	134	8.07	1.94	19.6
10/24/2007	9:00:00	9.0	134	8.07	1.99	20.1
10/24/2007	9:15:00	9.0	134	8.09	2.00	20.2
10/24/2007	9:30:00	9.0	134	8.09	1.92	19.3

Table 5.46. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	9:45:00	9.1	134	8.08	1.97	19.9
10/24/2007	10:00:00	9.2	134	8.06	1.95	19.7
10/24/2007	10:15:00	9.3	133	8.07	1.92	19.5
10/24/2007	10:30:00	9.6	133	8.10	1.72	17.6
10/24/2007	10:45:00	9.8	133	8.10	1.62	16.6
10/24/2007	11:00:00	10.1	133	8.11	1.42	14.7
10/24/2007	11:15:00	10.3	133	8.12	1.18	12.3
10/24/2007	11:30:00	10.5	133	8.10	1.16	12.1
10/24/2007	11:45:00	10.7	134	8.09	1.17	12.2
10/24/2007	12:00:00	11.0	134	8.07	1.05	11.1
10/24/2007	12:15:00	11.2	134	8.06	1.02	10.9
10/24/2007	12:30:00	11.5	134	8.06	0.88	9.4
10/24/2007	12:45:00	11.9	133	8.05	0.84	9.0
10/24/2007	13:00:00	12.2	134	8.05	0.73	7.9
10/24/2007	13:15:00	12.5	134	8.05	0.55	6.0
10/24/2007	13:30:00	12.8	134	8.05	0.62	6.8
10/24/2007	13:45:00	13.0	134	8.04	0.55	6.1
10/24/2007	14:00:00	13.3	134	8.03	0.33	3.7
10/24/2007	14:15:00	13.6	134	8.01	0.26	2.9
10/24/2007	14:30:00	14.0	134	7.99	0.25	2.8
10/24/2007	14:45:00	14.4	134	7.96	0.28	3.2
10/24/2007	15:00:00	14.9	134	7.94	0.28	3.2
10/24/2007	15:15:00	15.2	134	7.94	0.24	2.8
10/24/2007	15:30:00	15.4	135	7.93	0.20	2.4
10/24/2007	15:45:00	15.6	135	7.92	0.17	2.0
10/24/2007	16:00:00	15.9	135	7.92	0.15	1.8
10/24/2007	16:15:00	16.2	135	7.90	0.13	1.6
10/24/2007	16:30:00	16.5	135	7.90	0.14	1.6
10/24/2007	16:45:00	16.7	135	7.90	0.12	1.4
10/24/2007	17:00:00	17.0	136	7.88	0.11	1.3
10/24/2007	17:15:00	17.2	136	7.87	0.10	1.2
10/24/2007	17:30:00	17.2	136	7.86	0.10	1.2
10/24/2007	17:45:00	17.2	137	7.86	0.07	0.9
10/24/2007	18:00:00	17.2	137	7.85	0.09	1.1
10/24/2007	18:15:00	17.2	137	7.87	0.07	0.9
10/24/2007	18:30:00	17.1	137	7.86	0.06	0.7
10/24/2007	18:45:00	17.0	138	7.85	0.07	0.8
10/24/2007	19:00:00	16.9	138	7.81	0.08	1.0
10/24/2007	19:15:00	16.8	139	7.82	0.12	1.5
10/24/2007	19:30:00	16.7	140	7.83	0.22	2.7
10/24/2007	19:45:00	16.5	140	7.84	0.24	2.9
10/24/2007	20:00:00	16.3	141	7.86	0.22	2.6
10/24/2007	20:15:00	16.1	141	7.86	0.29	3.5
10/24/2007	20:30:00	15.9	141	7.87	0.42	4.9
10/24/2007	20:45:00	15.7	141	7.86	0.59	6.9
10/24/2007	21:00:00	15.5	140	7.88	0.68	7.9

Table 5.46. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	21:15:00	15.2	140	7.88	0.70	8.2
10/24/2007	21:30:00	15.0	140	7.87	0.70	8.1
10/24/2007	21:45:00	14.8	140	7.86	0.71	8.2
10/24/2007	22:00:00	14.6	140	7.86	0.71	8.1
10/24/2007	22:15:00	14.4	140	7.87	0.68	7.7
10/24/2007	22:30:00	14.1	139	7.87	0.64	7.3
10/24/2007	22:45:00	13.9	139	7.87	0.62	7.0
10/24/2007	23:00:00	13.7	139	7.87	0.60	6.8
10/24/2007	23:15:00	13.5	139	7.87	0.59	6.6
10/24/2007	23:30:00	13.3	139	7.87	0.58	6.5
10/24/2007	23:45:00	13.0	139	7.87	0.58	6.4
10/25/2007	0:00:00	12.8	139	7.87	0.56	6.2
10/25/2007	0:15:00	12.6	139	7.87	0.56	6.2
10/25/2007	0:30:00	12.4	139	7.87	0.54	5.9
10/25/2007	0:45:00	12.2	139	7.87	0.53	5.8
10/25/2007	1:00:00	12.0	139	7.87	0.53	5.7
10/25/2007	1:15:00	11.8	138	7.87	0.52	5.6
10/25/2007	1:30:00	11.6	138	7.87	0.56	6.0
10/25/2007	1:45:00	11.4	138	7.88	0.56	6.0
10/25/2007	2:00:00	11.3	138	7.89	0.59	6.3
10/25/2007	2:15:00	11.1	138	7.91	0.63	6.7
10/25/2007	2:30:00	10.9	138	7.91	0.67	7.1
10/25/2007	2:45:00	10.8	138	7.91	0.73	7.7
10/25/2007	3:00:00	10.6	138	7.91	0.91	9.5
10/25/2007	3:15:00	10.5	138	7.93	1.05	10.9
10/25/2007	3:30:00	10.3	138	7.95	1.10	11.5
10/25/2007	3:45:00	10.2	138	7.98	1.11	11.5
10/25/2007	4:00:00	10.0	138	7.98	1.13	11.6
10/25/2007	4:15:00	9.9	138	7.99	1.19	12.3
10/25/2007	4:30:00	9.8	138	7.99	1.25	12.8
10/25/2007	4:45:00	9.6	138	8.00	1.32	13.5
10/25/2007	5:00:00	9.5	138	8.02	1.41	14.4
10/25/2007	5:15:00	9.4	138	8.02	1.50	15.2
10/25/2007	5:30:00	9.2	137	8.03	1.65	16.7
10/25/2007	5:45:00	9.1	137	8.06	1.74	17.6
10/25/2007	6:00:00	9.0	137	8.08	1.81	18.3
10/25/2007	6:15:00	8.8	137	8.09	1.92	19.3
10/25/2007	6:30:00	8.7	137	8.10	2.10	21.1
10/25/2007	6:45:00	8.5	136	8.12	2.21	22.0
10/25/2007	7:00:00	8.3	136	8.12	2.29	22.8
10/25/2007	7:15:00	8.2	136	8.13	2.31	22.9
10/25/2007	7:30:00	8.1	135	8.14	2.36	23.3
10/25/2007	7:45:00	8.0	135	8.14	2.49	24.5
10/25/2007	8:00:00	7.9	134	8.16	2.43	23.9
10/25/2007	8:15:00	7.8	134	8.15	2.50	24.5
10/25/2007	8:30:00	7.7	133	8.15	2.44	23.9

Table 5.46. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	8:45:00	7.7	132	8.16	2.44	23.8
10/25/2007	9:00:00	7.8	132	8.15	2.45	24.0
10/25/2007	9:15:00	7.7	444	8.51	9.19*	89.9
10/25/2007	9:30:00	8.0	443	8.53	8.87	87.5
10/25/2007	9:45:00	8.5	445	8.53	8.84	88.2
10/25/2007	10:00:00	9.0	445	8.53	8.69	87.8
10/25/2007	10:15:00	9.5	449	8.54	8.84	90.4
10/25/2007	10:30:00	10.1	448	8.55	9.09	94.3
10/25/2007	10:45:00	10.7	170	8.56	8.87	93.2
10/25/2007	11:00:00	11.3	453	8.57	9.47	101.0
10/25/2007	11:15:00	12.0	452	8.58	8.45	91.5
10/25/2007	11:30:00	12.7	452	8.59	8.31	91.4
10/25/2007	11:45:00	13.3	453	8.60	7.74	86.3
10/25/2007	12:00:00	13.9	453	8.60	7.77	87.9
10/25/2007	12:15:00	14.5	454	8.61	7.61	87.1
10/25/2007	12:30:00	15.1	454	8.62	8.11	94.1
10/25/2007	12:45:00	15.7	453	8.63	7.86	92.3
10/25/2007	13:00:00	16.3	457	8.64	7.68	91.4
10/25/2007	13:15:00	16.9	459	8.66	7.01	84.5
10/25/2007	13:30:00	17.5	455	8.68	6.91	84.3
10/25/2007	13:45:00	18.0	459	8.68	6.79	83.7
10/25/2007	14:00:00	18.6	457	8.69	7.10	88.6
10/25/2007	14:15:00	19.1	450	8.71	7.01	88.3
10/25/2007	14:30:00	19.5	453	8.72	6.52	82.9
10/25/2007	14:45:00	19.9	460	8.73	6.74	86.4
10/25/2007	15:00:00	20.3	456	8.74	6.76	87.3
10/25/2007	15:15:00	20.6	457	8.76	6.96	90.4
10/25/2007	15:30:00	20.8	455	8.78	6.60	86.1
10/25/2007	15:45:00	21.0	453	8.78	6.42	84.1
10/25/2007	16:00:00	21.0	454	8.79	6.26	82.1
10/25/2007	16:15:00	21.0	454	8.80	6.38	83.5
10/25/2007	16:30:00	21.0	450	8.80	6.51	85.3
10/25/2007	16:45:00	20.9	452	8.81	6.11	79.9
10/25/2007	17:00:00	20.7	452	8.80	5.82	75.7
10/25/2007	17:15:00	20.5	451	8.79	5.61	72.7
10/25/2007	17:30:00	20.2	452	8.77	5.34	68.8
10/25/2007	17:45:00	19.9	452	8.76	5.48	70.2
10/25/2007	18:00:00	19.6	402	8.74	5.36	68.2
10/25/2007	18:15:00	19.3	129	8.73	4.92	62.1
10/25/2007	18:30:00	19.0	122	8.76	3.74*	47.0
10/25/2007	18:45:00	18.6	120	8.71	3.19	39.9
10/25/2007	19:00:00	18.3	119	8.70	2.74	33.9
10/25/2007	19:15:00	18.0	117	8.68	2.35	29.0
10/25/2007	19:30:00	17.7	116	8.65	2.19	26.8
10/25/2007	19:45:00	17.4	116	8.62	2.12	25.7
10/25/2007	20:00:00	17.0	115	8.60	1.95	23.5

Table 5.46. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	20:15:00	16.7	115	8.59	1.91	22.9
10/25/2007	20:30:00	16.3	115	8.56	1.81	21.5
10/25/2007	20:45:00	16.0	115	8.55	1.72	20.3
10/25/2007	21:00:00	15.7	114	8.53	1.76	20.7
10/25/2007	21:15:00	15.5	114	8.53	1.69	19.7
10/25/2007	21:30:00	15.2	113	8.49	1.65	19.1
10/25/2007	21:45:00	14.9	113	8.49	1.58	18.2
10/25/2007	22:00:00	14.6	113	8.46	1.61	18.4
10/25/2007	22:15:00	14.3	113	8.45	1.39	15.8
10/25/2007	22:30:00	14.0	113	8.45	1.36	15.4
10/25/2007	22:45:00	13.7	113	8.45	1.28	14.4
10/25/2007	23:00:00	13.5	112	8.47	1.04	11.6
10/25/2007	23:15:00	13.2	113	8.46	0.89	9.9
10/25/2007	23:30:00	12.9	113	8.44	1.04	11.5
10/25/2007	23:45:00	12.7	113	8.41	1.10	12.1
10/26/2007	0:00:00	12.4	112	8.40	1.01	11.0
10/26/2007	0:15:00	12.1	131	8.42	1.14	12.3
10/26/2007	0:30:00	11.9	456	8.43	1.10	11.8
10/26/2007	0:45:00	11.6	455	8.46	0.91	9.7
10/26/2007	1:00:00	11.4	453	8.48	0.78	8.3
10/26/2007	1:15:00	11.2	454	8.48	0.72	7.6
10/26/2007	1:30:00	11.0	452	8.49	0.64	6.8
10/26/2007	1:45:00	10.8	455	8.50	0.60	6.3
10/26/2007	2:00:00	10.6	447	8.50	0.57	6.0
10/26/2007	2:15:00	10.3	450	8.50	0.97	10.1
10/26/2007	2:30:00	10.1	446	8.51	1.72	17.8
10/26/2007	2:45:00	9.9	450	8.51	2.05	21.2
10/26/2007	3:00:00	9.7	447	8.51	2.32	23.8
10/26/2007	3:15:00	9.5	442	8.51	2.39	24.4
10/26/2007	3:30:00	9.3	443	8.51	2.62	26.6
10/26/2007	3:45:00	9.1	443	8.51	2.78	28.1
10/26/2007	4:00:00	8.9	441	8.51	2.80	28.2
10/26/2007	4:15:00	8.7	438	8.50	2.84	28.5
10/26/2007	4:30:00	8.5	439	8.51	3.04	30.4
10/26/2007	4:45:00	8.4	438	8.50	2.99	29.7
10/26/2007	5:00:00	8.2	437	8.50	2.96	29.3
10/26/2007	5:15:00	8.0	437	8.50	3.05	30.1
10/26/2007	5:30:00	7.9	437	8.50	3.20	31.5
10/26/2007	5:45:00	7.7	435	8.49	3.21	31.4
10/26/2007	6:00:00	7.5	434	8.50	3.22	31.4
10/26/2007	6:15:00	7.4	435	8.49	3.27	31.8
10/26/2007	6:30:00	7.2	432	8.49	3.21	31.0
10/26/2007	6:45:00	7.0	432	8.49	3.16	30.5
10/26/2007	7:00:00	6.9	432	8.49	3.22	30.9
10/26/2007	7:15:00	6.7	432	8.49	3.40	32.5
10/26/2007	7:30:00	6.6	430	8.49	3.48	33.2

Table 5.46. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/26/2007	7:45:00	6.5	430	8.50	3.52	33.4
10/26/2007	8:00:00	6.4	431	8.50	3.61	34.2
10/26/2007	8:15:00	6.4	435	8.50	3.52	33.4
10/26/2007	8:30:00	6.5	433	8.52	3.66	34.8
10/26/2007	8:45:00	6.7	437	8.53	3.79	36.1
10/26/2007	9:00:00	7.0	439	8.54	3.75	36.0
10/26/2007	9:15:00	7.3	440	8.55	3.75	36.4
10/26/2007	9:30:00	7.7	442	8.56	3.83	37.5
10/26/2007	9:45:00	8.2	441	8.56	3.82	37.8
10/26/2007	10:00:00	8.7	442	8.57	3.74	37.5
10/26/2007	10:15:00	9.3	446	8.58	3.79	38.6
10/26/2007	10:30:00	9.9	447	8.59	3.75	38.7
10/26/2007	10:45:00	10.6	449	8.60	3.63	38.1
10/26/2007	11:00:00	11.3	454	8.61	3.59	38.3
10/26/2007	11:15:00	12.0	452	8.62	3.50	37.9
10/26/2007	11:30:00	12.7	450	8.63	3.43	37.7

Table 5.47. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Athena**
Log	**File**	**Name**	**:**	**Site5_10_22_07At**
Setup	**Date**	**(MMDDYY)**	**:**	**10/22/2007**
Setup	**Time**	**(HHMMSS)**	**:**	**11:54:30**
Starting	**Date**	**(MMDDYY)**	**:**	**10/22/2007**
Starting	**Time**	**(HHMMSS)**	**:**	**13:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**10/26/2007**
Stopping	**Time**	**(HHMMSS)**	**:**	**16:27:14**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/22/2007	13:00:00	12.63	9.28	101.3
10/22/2007	13:15:00	12.91	9.07	99.6
10/22/2007	13:30:00	13.17	8.77	96.9
10/22/2007	13:45:00	13.41	8.50	94.4
10/22/2007	14:00:00	13.63	8.30	92.6
10/22/2007	14:15:00	13.82	8.13	91.1
10/22/2007	14:30:00	13.97	8.02	90.1
10/22/2007	14:45:00	14.09	7.96	89.8
10/22/2007	15:00:00	14.19	7.91	89.4
10/22/2007	15:15:00	14.27	7.86	88.9
10/22/2007	15:30:00	14.32	7.78	88.2
10/22/2007	15:45:00	14.32	7.73	87.6
10/22/2007	16:00:00	14.30	7.70	87.2
10/22/2007	16:15:00	14.25	7.72	87.3
10/22/2007	16:30:00	14.15	7.74	87.4
10/22/2007	16:45:00	14.04	7.76	87.4
10/22/2007	17:00:00	13.94	7.78	87.4
10/22/2007	17:15:00	13.78	7.80	87.3
10/22/2007	17:30:00	13.65	7.82	87.3
10/22/2007	17:45:00	13.53	7.83	87.1
10/22/2007	18:00:00	13.37	7.83	86.9
10/22/2007	18:15:00	13.22	7.85	86.8
10/22/2007	18:30:00	13.06	7.87	86.7
10/22/2007	18:45:00	12.89	7.90	86.7
10/22/2007	19:00:00	12.76	7.92	86.7
10/22/2007	19:15:00	12.62	7.96	86.8
10/22/2007	19:30:00	12.50	7.98	86.8
10/22/2007	19:45:00	12.36	7.99	86.7
10/22/2007	20:00:00	12.23	8.00	86.5
10/22/2007	20:15:00	12.09	8.02	86.4
10/22/2007	20:30:00	11.96	8.04	86.4
10/22/2007	20:45:00	11.83	8.06	86.4
10/22/2007	21:00:00	11.72	8.09	86.4
10/22/2007	21:15:00	11.60	8.11	86.4
10/22/2007	21:30:00	11.49	8.12	86.3
10/22/2007	21:45:00	11.40	8.14	86.3
10/22/2007	22:00:00	11.32	8.15	86.3
10/22/2007	22:15:00	11.23	8.17	86.3

Table 5.47. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/22/2007	22:30:00	11.13	8.19	86.3
10/22/2007	22:45:00	11.05	8.20	86.3
10/22/2007	23:00:00	10.98	8.22	86.3
10/22/2007	23:15:00	10.88	8.23	86.2
10/22/2007	23:30:00	10.80	8.24	86.2
10/22/2007	23:45:00	10.72	8.26	86.3
10/23/2007	0:00:00	10.62	8.28	86.3
10/23/2007	0:15:00	10.53	8.30	86.3
10/23/2007	0:30:00	10.44	8.32	86.3
10/23/2007	0:45:00	10.34	8.34	86.3
10/23/2007	1:00:00	10.24	8.36	86.3
10/23/2007	1:15:00	10.15	8.38	86.3
10/23/2007	1:30:00	10.03	8.40	86.3
10/23/2007	1:45:00	9.92	8.42	86.3
10/23/2007	2:00:00	9.82	8.45	86.4
10/23/2007	2:15:00	9.70	8.47	86.4
10/23/2007	2:30:00	9.59	8.50	86.4
10/23/2007	2:45:00	9.48	8.52	86.4
10/23/2007	3:00:00	9.37	8.55	86.4
10/23/2007	3:15:00	9.26	8.57	86.5
10/23/2007	3:30:00	9.14	8.60	86.5
10/23/2007	3:45:00	9.03	8.63	86.5
10/23/2007	4:00:00	8.92	8.65	86.5
10/23/2007	4:15:00	8.79	8.68	86.5
10/23/2007	4:30:00	8.67	8.70	86.5
10/23/2007	4:45:00	8.56	8.73	86.6
10/23/2007	5:00:00	8.43	8.76	86.6
10/23/2007	5:15:00	8.32	8.78	86.6
10/23/2007	5:30:00	8.19	8.81	86.6
10/23/2007	5:45:00	8.08	8.84	86.6
10/23/2007	6:00:00	7.97	8.87	86.7
10/23/2007	6:15:00	7.87	8.89	86.7
10/23/2007	6:30:00	7.76	8.92	86.8
10/23/2007	6:45:00	7.67	8.95	86.9
10/23/2007	7:00:00	7.56	8.98	86.9
10/23/2007	7:15:00	7.45	9.01	86.9
10/23/2007	7:30:00	7.36	9.04	87.0
10/23/2007	7:45:00	7.26	9.07	87.1
10/23/2007	8:00:00	7.18	9.10	87.3
10/23/2007	8:15:00	7.12	9.14	87.5
10/23/2007	8:30:00	7.08	9.17	87.7
10/23/2007	8:45:00	7.07	9.21	88.0
10/23/2007	9:00:00	7.13	9.25	88.5
10/23/2007	9:15:00	7.22	9.28	89.0
10/23/2007	9:30:00	7.37	9.31	89.6
10/23/2007	9:45:00	7.54	9.33	90.2
10/23/2007	10:00:00	7.76	9.35	90.9
10/23/2007	10:15:00	7.98	9.37	91.6
10/23/2007	10:30:00	8.24	9.37	92.2
10/23/2007	10:45:00	8.52	9.38	92.9

Table 5.47. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	11:00:00	8.78	9.38	93.5
10/23/2007	11:15:00	9.09	9.38	94.2
10/23/2007	11:30:00	9.40	9.37	94.9
10/23/2007	11:45:00	9.72	9.37	95.5
10/23/2007	12:00:00	10.04	9.35	96.1
10/23/2007	12:15:00	10.34	9.33	96.6
10/23/2007	12:30:00	10.68	9.31	97.1
10/23/2007	12:45:00	11.02	9.29	97.6
10/23/2007	13:00:00	11.34	9.25	98.0
10/23/2007	13:15:00	11.66	9.22	98.4
10/23/2007	13:30:00	11.98	9.19	98.8
10/23/2007	13:45:00	12.27	9.15	99.0
10/23/2007	14:00:00	12.56	9.11	99.3
10/23/2007	14:15:00	12.82	9.08	99.4
10/23/2007	14:30:00	13.05	9.04	99.6
10/23/2007	14:45:00	13.27	9.00	99.6
10/23/2007	15:00:00	13.46	8.97	99.7
10/23/2007	15:15:00	13.61	8.93	99.6
10/23/2007	15:30:00	13.74	8.91	99.6
10/23/2007	15:45:00	13.86	8.91	99.9
10/23/2007	16:00:00	13.93	8.98	100.9
10/23/2007	16:15:00	13.98	9.12	102.6
10/23/2007	16:30:00	14.04	9.22	103.8
10/23/2007	16:45:00	14.06	9.23	104.0
10/23/2007	17:00:00	14.04	9.24	104.0
10/23/2007	17:15:00	13.99	9.25	104.1
10/23/2007	17:30:00	13.94	9.24	103.8
10/23/2007	17:45:00	13.84	9.21	103.3
10/23/2007	18:00:00	13.76	9.18	102.8
10/23/2007	18:15:00	13.65	9.15	102.1
10/23/2007	18:30:00	13.53	9.11	101.4
10/23/2007	18:45:00	13.41	9.07	100.7
10/23/2007	19:00:00	13.29	9.03	100.0
10/23/2007	19:15:00	13.20	9.00	99.4
10/23/2007	19:30:00	13.11	8.97	98.9
10/23/2007	19:45:00	13.02	8.94	98.4
10/23/2007	20:00:00	12.92	8.91	97.8
10/23/2007	20:15:00	12.81	8.89	97.4
10/23/2007	20:30:00	12.69	8.88	97.0
10/23/2007	20:45:00	12.58	8.86	96.6
10/23/2007	21:00:00	12.48	8.85	96.2
10/23/2007	21:15:00	12.37	8.83	95.8
10/23/2007	21:30:00	12.28	8.83	95.5
10/23/2007	21:45:00	12.21	8.82	95.3
10/23/2007	22:00:00	12.14	8.81	95.0
10/23/2007	22:15:00	12.07	8.80	94.8
10/23/2007	22:30:00	12.00	8.79	94.6
10/23/2007	22:45:00	11.92	8.79	94.4
10/23/2007	23:00:00	11.84	8.79	94.2
10/23/2007	23:15:00	11.77	8.79	94.1

Table 5.47. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	23:30:00	11.69	8.79	93.9
10/23/2007	23:45:00	11.61	8.80	93.8
10/24/2007	0:00:00	11.53	8.81	93.7
10/24/2007	0:15:00	11.43	8.82	93.6
10/24/2007	0:30:00	11.34	8.83	93.5
10/24/2007	0:45:00	11.24	8.84	93.5
10/24/2007	1:00:00	11.14	8.86	93.4
10/24/2007	1:15:00	11.04	8.87	93.3
10/24/2007	1:30:00	10.95	8.88	93.3
10/24/2007	1:45:00	10.84	8.90	93.2
10/24/2007	2:00:00	10.74	8.92	93.2
10/24/2007	2:15:00	10.63	8.94	93.1
10/24/2007	2:30:00	10.52	8.95	93.1
10/24/2007	2:45:00	10.41	8.96	92.8
10/24/2007	3:00:00	10.28	8.97	92.7
10/24/2007	3:15:00	10.17	8.98	92.6
10/24/2007	3:30:00	10.07	9.00	92.5
10/24/2007	3:45:00	9.94	8.99	92.2
10/24/2007	4:00:00	9.84	9.01	92.2
10/24/2007	4:15:00	9.72	9.05	92.3
10/24/2007	4:30:00	9.62	9.08	92.3
10/24/2007	4:45:00	9.52	9.11	92.5
10/24/2007	5:00:00	9.39	9.14	92.5
10/24/2007	5:15:00	9.29	9.16	92.5
10/24/2007	5:30:00	9.19	9.19	92.5
10/24/2007	5:45:00	9.09	9.21	92.5
10/24/2007	6:00:00	8.98	9.22	92.4
10/24/2007	6:15:00	8.88	9.25	92.4
10/24/2007	6:30:00	8.78	9.28	92.5
10/24/2007	6:45:00	8.67	9.30	92.5
10/24/2007	7:00:00	8.57	9.33	92.6
10/24/2007	7:15:00	8.48	9.35	92.6
10/24/2007	7:30:00	8.39	9.36	92.5
10/24/2007	7:45:00	8.31	9.39	92.6
10/24/2007	8:00:00	8.24	9.41	92.6
10/24/2007	8:15:00	8.21	9.43	92.7
10/24/2007	8:30:00	8.18	9.46	93.0
10/24/2007	8:45:00	8.21	9.49	93.3
10/24/2007	9:00:00	8.28	9.52	93.7
10/24/2007	9:15:00	8.40	9.55	94.3
10/24/2007	9:30:00	8.57	9.57	94.9
10/24/2007	9:45:00	8.73	9.59	95.5
10/24/2007	10:00:00	8.94	9.60	96.1
10/24/2007	10:15:00	9.17	9.62	96.9
10/24/2007	10:30:00	9.43	9.64	97.6
10/24/2007	10:45:00	9.71	9.65	98.4
10/24/2007	11:00:00	10.01	9.66	99.1
10/24/2007	11:15:00	10.31	9.65	99.8
10/24/2007	11:30:00	10.62	9.65	100.5
10/24/2007	11:45:00	10.96	9.64	101.3

Table 5.47. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	12:00:00	11.30	9.63	101.9
10/24/2007	12:15:00	11.66	9.62	102.6
10/24/2007	12:30:00	11.99	9.59	103.2
10/24/2007	12:45:00	12.35	9.57	103.8
10/24/2007	13:00:00	12.69	9.55	104.3
10/24/2007	13:15:00	13.04	9.51	104.7
10/24/2007	13:30:00	13.39	9.47	105.1
10/24/2007	13:45:00	13.72	9.43	105.5
10/24/2007	14:00:00	14.00	9.39	105.7
10/24/2007	14:15:00	14.29	9.34	105.8
10/24/2007	14:30:00	14.56	9.29	105.8
10/24/2007	14:45:00	14.80	9.24	105.8
10/24/2007	15:00:00	15.00	9.19	105.7
10/24/2007	15:15:00	15.19	9.14	105.5
10/24/2007	15:30:00	15.35	9.09	105.3
10/24/2007	15:45:00	15.46	9.04	105.0
10/24/2007	16:00:00	15.54	9.00	104.7
10/24/2007	16:15:00	15.63	8.95	104.4
10/24/2007	16:30:00	15.66	8.93	104.2
10/24/2007	16:45:00	15.67	8.90	103.8
10/24/2007	17:00:00	15.66	8.86	103.4
10/24/2007	17:15:00	15.59	8.82	102.7
10/24/2007	17:30:00	15.52	8.77	102.0
10/24/2007	17:45:00	15.41	8.72	101.2
10/24/2007	18:00:00	15.29	8.69	100.5
10/24/2007	18:15:00	15.17	8.65	99.9
10/24/2007	18:30:00	15.02	8.61	99.1
10/24/2007	18:45:00	14.88	8.58	98.4
10/24/2007	19:00:00	14.75	8.54	97.7
10/24/2007	19:15:00	14.62	8.52	97.1
10/24/2007	19:30:00	14.49	8.47	96.4
10/24/2007	19:45:00	14.37	8.46	95.9
10/24/2007	20:00:00	14.25	8.45	95.5
10/24/2007	20:15:00	14.12	8.42	95.0
10/24/2007	20:30:00	13.98	8.39	94.4
10/24/2007	20:45:00	13.86	8.37	93.9
10/24/2007	21:00:00	13.73	8.36	93.5
10/24/2007	21:15:00	13.59	8.34	93.0
10/24/2007	21:30:00	13.47	8.32	92.5
10/24/2007	21:45:00	13.35	8.31	92.1
10/24/2007	22:00:00	13.25	8.31	91.9
10/24/2007	22:15:00	13.15	8.31	91.7
10/24/2007	22:30:00	13.06	8.30	91.5
10/24/2007	22:45:00	12.95	8.30	91.2
10/24/2007	23:00:00	12.85	8.30	91.0
10/24/2007	23:15:00	12.74	8.30	90.8
10/24/2007	23:30:00	12.65	8.31	90.7
10/24/2007	23:45:00	12.53	8.33	90.7
10/25/2007	0:00:00	12.43	8.34	90.6
10/25/2007	0:15:00	12.32	8.35	90.5

Table 5.47. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	0:30:00	12.22	8.35	90.2
10/25/2007	0:45:00	12.11	8.34	89.9
10/25/2007	1:00:00	12.02	8.36	89.9
10/25/2007	1:15:00	11.92	8.38	89.9
10/25/2007	1:30:00	11.82	8.40	90.0
10/25/2007	1:45:00	11.71	8.41	89.9
10/25/2007	2:00:00	11.60	8.43	89.8
10/25/2007	2:15:00	11.49	8.45	89.8
10/25/2007	2:30:00	11.39	8.47	89.8
10/25/2007	2:45:00	11.28	8.49	89.8
10/25/2007	3:00:00	11.18	8.51	89.8
10/25/2007	3:15:00	11.07	8.53	89.7
10/25/2007	3:30:00	10.95	8.54	89.7
10/25/2007	3:45:00	10.85	8.57	89.8
10/25/2007	4:00:00	10.76	8.60	89.9
10/25/2007	4:15:00	10.64	8.63	89.9
10/25/2007	4:30:00	10.52	8.65	89.9
10/25/2007	4:45:00	10.40	8.66	89.7
10/25/2007	5:00:00	10.29	8.68	89.7
10/25/2007	5:15:00	10.17	8.70	89.7
10/25/2007	5:30:00	10.04	8.73	89.7
10/25/2007	5:45:00	9.93	8.75	89.7
10/25/2007	6:00:00	9.81	8.79	89.8
10/25/2007	6:15:00	9.71	8.82	89.9
10/25/2007	6:30:00	9.59	8.85	89.9
10/25/2007	6:45:00	9.47	8.88	90.0
10/25/2007	7:00:00	9.36	8.90	90.0
10/25/2007	7:15:00	9.24	8.93	90.0
10/25/2007	7:30:00	9.13	8.95	89.9
10/25/2007	7:45:00	9.04	8.96	89.9
10/25/2007	8:00:00	8.96	8.99	90.0
10/25/2007	8:15:00	8.89	9.02	90.2
10/25/2007	8:30:00	8.87	9.05	90.4
10/25/2007	8:45:00	8.87	9.08	90.7
10/25/2007	9:00:00	8.95	9.11	91.2
10/25/2007	9:15:00	9.06	9.15	91.8
10/25/2007	9:30:00	9.19	9.16	92.2
10/25/2007	9:45:00	9.37	9.16	92.6
10/25/2007	10:00:00	9.59	9.17	93.2
10/25/2007	10:15:00	9.85	9.19	94.0
10/25/2007	10:30:00	10.11	9.20	94.7
10/25/2007	10:45:00	10.41	9.20	95.4
10/25/2007	11:00:00	10.69	9.20	96.0
10/25/2007	11:15:00	11.00	9.19	96.6
10/25/2007	11:30:00	11.33	9.14	96.8
10/25/2007	11:45:00	11.68	9.11	97.3
10/25/2007	12:00:00	12.02	9.11	98.0
10/25/2007	12:15:00	12.37	9.11	98.8
10/25/2007	12:30:00	12.71	9.07	99.1
10/25/2007	12:45:00	13.06	9.04	99.6

Table 5.47. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	13:00:00	13.40	9.02	100.2
10/25/2007	13:15:00	13.76	8.99	100.6
10/25/2007	13:30:00	14.09	8.95	100.9
10/25/2007	13:45:00	14.41	8.91	101.2
10/25/2007	14:00:00	14.72	8.88	101.5
10/25/2007	14:15:00	14.98	8.84	101.7
10/25/2007	14:30:00	15.22	8.81	101.8
10/25/2007	14:45:00	15.43	8.77	101.8
10/25/2007	15:00:00	15.61	8.73	101.7
10/25/2007	15:15:00	15.76	8.70	101.6
10/25/2007	15:30:00	15.89	8.66	101.5
10/25/2007	15:45:00	16.01	8.62	101.3
10/25/2007	16:00:00	16.07	8.57	100.8
10/25/2007	16:15:00	16.10	8.53	100.4
10/25/2007	16:30:00	16.13	8.49	100.0
10/25/2007	16:45:00	16.11	8.45	99.5
10/25/2007	17:00:00	16.05	8.41	98.9
10/25/2007	17:15:00	15.98	8.37	98.3
10/25/2007	17:30:00	15.86	8.34	97.6
10/25/2007	17:45:00	15.73	8.30	97.0
10/25/2007	18:00:00	15.57	8.26	96.2
10/25/2007	18:15:00	15.41	8.22	95.4
10/25/2007	18:30:00	15.26	8.19	94.7
10/25/2007	18:45:00	15.08	8.16	94.0
10/25/2007	19:00:00	14.91	8.12	93.2
10/25/2007	19:15:00	14.77	8.10	92.7
10/25/2007	19:30:00	14.63	8.09	92.3
10/25/2007	19:45:00	14.51	8.08	92.0
10/25/2007	20:00:00	14.35	8.08	91.6
10/25/2007	20:15:00	14.22	8.08	91.3
10/25/2007	20:30:00	14.10	8.08	91.1
10/25/2007	20:45:00	13.94	8.07	90.7
10/25/2007	21:00:00	13.80	8.07	90.4
10/25/2007	21:15:00	13.66	8.07	90.1
10/25/2007	21:30:00	13.53	8.07	89.8
10/25/2007	21:45:00	13.43	8.07	89.7
10/25/2007	22:00:00	13.34	8.07	89.5

Table 5.47. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	22:15:00	13.26	8.08	89.4
10/25/2007	22:30:00	13.17	8.08	89.2
10/25/2007	22:45:00	13.09	8.08	89.1
10/25/2007	23:00:00	13.01	8.09	89.0
10/25/2007	23:15:00	12.93	8.09	88.9
10/25/2007	23:30:00	12.87	8.10	88.8
10/25/2007	23:45:00	12.78	8.11	88.7
10/26/2007	0:00:00	12.72	8.11	88.7
10/26/2007	0:15:00	12.63	8.12	88.6
10/26/2007	0:30:00	12.56	8.13	88.6
10/26/2007	0:45:00	12.48	8.14	88.5
10/26/2007	1:00:00	12.41	8.15	88.4
10/26/2007	1:15:00	12.31	8.16	88.4
10/26/2007	1:30:00	12.22	8.18	88.4
10/26/2007	1:45:00	12.11	8.19	88.3
10/26/2007	2:00:00	11.99	8.21	88.3
10/26/2007	2:15:00	11.87	8.23	88.3
10/26/2007	2:30:00	11.73	8.26	88.3
10/26/2007	2:45:00	11.62	8.28	88.3
10/26/2007	3:00:00	11.49	8.30	88.3
10/26/2007	3:15:00	11.38	8.35	88.5
10/26/2007	3:30:00	11.26	8.40	88.8
10/26/2007	3:45:00	11.14	8.44	89.0
10/26/2007	4:00:00	11.02	8.47	89.1
10/26/2007	4:15:00	10.89	8.50	89.1
10/26/2007	4:30:00	10.78	8.52	89.1
10/26/2007	4:45:00	10.66	8.54	89.0
10/26/2007	5:00:00	10.53	8.56	89.0
10/26/2007	5:15:00	10.42	8.58	89.0
10/26/2007	5:30:00	10.29	8.61	89.0
10/26/2007	5:45:00	10.17	8.64	89.1
10/26/2007	6:00:00	10.06	8.67	89.2
10/26/2007	6:15:00	9.92	8.70	89.2
10/26/2007	6:30:00	9.81	8.74	89.3
10/26/2007	6:45:00	9.67	8.77	89.3
10/26/2007	7:00:00	9.54	8.81	89.4
10/26/2007	7:15:00	9.42	8.84	89.5
10/26/2007	7:30:00	9.30	8.88	89.6
10/26/2007	7:45:00	9.19	8.91	89.7
10/26/2007	8:00:00	9.10	8.95	89.9
10/26/2007	8:15:00	9.03	8.98	90.1
10/26/2007	8:30:00	8.99	9.01	90.3
10/26/2007	8:45:00	8.99	9.04	90.6
10/26/2007	9:00:00	9.05	9.08	91.1
10/26/2007	9:15:00	9.16	9.11	91.7
10/26/2007	9:30:00	9.33	9.15	92.4
10/26/2007	9:45:00	9.52	9.18	93.2
10/26/2007	10:00:00	9.74	9.21	93.9
10/26/2007	10:15:00	10.01	9.23	94.8

Table 5.48. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40183**	**Name**	**:**	**Marge**		
Log	**File**	**Name**	**:**	**SITE5-10-22-07**		
Setup	**Date**	**(MMDDYY)**	**:**	**10/18/2007**		
Setup	**Time**	**(HHMMSS)**	**:**	**150201**		
Starting	**Date**	**(MMDDYY)**	**:**	**10/22/2007**		
Starting	**Time**	**(HHMMSS)**	**:**	**1100000**		
Stopping	**Date**	**(MMDDYY)**	**:**	**11/2/2007**		
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**		
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**		
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**		
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**		

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
10/22/2007	13:00:00	12.5	589	8.46	8.62	93.8
10/22/2007	13:15:00	12.8	589	8.47	8.62	94.3
10/22/2007	13:30:00	13.0	589	8.47	8.52	93.8
10/22/2007	13:45:00	13.3	589	8.46	8.46	93.6
10/22/2007	14:00:00	13.5	589	8.46	8.47	94.2
10/22/2007	14:15:00	13.7	589	8.46	8.40	93.9
10/22/2007	14:30:00	13.8	589	8.46	8.42	94.4
10/22/2007	14:45:00	14.0	588	8.46	8.41	94.6
10/22/2007	15:00:00	14.1	588	8.46	8.27	93.2
10/22/2007	15:15:00	14.2	588	8.46	8.28	93.5
10/22/2007	15:30:00	14.2	588	8.46	8.30	93.7
10/22/2007	15:45:00	14.2	588	8.45	8.37	94.6
10/22/2007	16:00:00	14.2	588	8.45	8.32	93.9
10/22/2007	16:15:00	14.1	589	8.45	8.30	93.6
10/22/2007	16:30:00	14.0	589	8.45	8.31	93.5
10/22/2007	16:45:00	13.9	589	8.45	8.29	93.0
10/22/2007	17:00:00	13.8	588	8.46	8.27	92.6
10/22/2007	17:15:00	13.7	588	8.45	8.26	92.2
10/22/2007	17:30:00	13.5	587	8.46	8.18	91.1
10/22/2007	17:45:00	13.4	586	8.46	8.12	90.2
10/22/2007	18:00:00	13.3	585	8.46	8.15	90.2
10/22/2007	18:15:00	13.1	584	8.46	8.19	90.3
10/22/2007	18:30:00	12.9	583	8.45	8.14	89.5
10/22/2007	18:45:00	12.8	583	8.46	8.14	89.1
10/22/2007	19:00:00	12.6	582	8.46	8.16	89.0
10/22/2007	19:15:00	12.5	581	8.46	8.12	88.3
10/22/2007	19:30:00	12.4	579	8.46	8.13	88.2
10/22/2007	19:45:00	12.2	579	8.46	8.12	87.8
10/22/2007	20:00:00	12.1	578	8.46	8.12	87.5
10/22/2007	20:15:00	12.0	577	8.46	8.13	87.4
10/22/2007	20:30:00	11.8	577	8.46	8.12	87.0
10/22/2007	20:45:00	11.7	575	8.47	8.11	86.7

Table 5.48. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/22/2007	21:00:00	11.6	575	8.47	8.12	86.5
10/22/2007	21:15:00	11.5	574	8.46	8.12	86.3
10/22/2007	21:30:00	11.4	575	8.46	8.15	86.3
10/22/2007	21:45:00	11.3	574	8.47	8.12	85.9
10/22/2007	22:00:00	11.2	574	8.47	8.14	85.9
10/22/2007	22:15:00	11.1	574	8.47	8.14	85.7
10/22/2007	22:30:00	11.0	573	8.47	8.16	85.7
10/22/2007	22:45:00	10.9	573	8.48	8.14	85.4
10/22/2007	23:00:00	10.8	573	8.48	8.18	85.7
10/22/2007	23:15:00	10.8	574	8.48	8.16	85.3
10/22/2007	23:30:00	10.7	574	8.48	8.16	85.1
10/22/2007	23:45:00	10.6	575	8.48	8.17	85.1
10/23/2007	0:00:00	10.5	575	8.48	8.21	85.3
10/23/2007	0:15:00	10.4	575	8.48	8.22	85.2
10/23/2007	0:30:00	10.3	577	8.48	8.24	85.2
10/23/2007	0:45:00	10.2	577	8.48	8.24	85.0
10/23/2007	1:00:00	10.1	578	8.48	8.27	85.2
10/23/2007	1:15:00	10.0	579	8.49	8.27	85.0
10/23/2007	1:30:00	9.9	581	8.49	8.30	85.0
10/23/2007	1:45:00	9.8	582	8.48	8.30	84.8
10/23/2007	2:00:00	9.7	582	8.48	8.36	85.2
10/23/2007	2:15:00	9.6	584	8.49	8.35	84.9
10/23/2007	2:30:00	9.5	585	8.49	8.37	84.8
10/23/2007	2:45:00	9.3	586	8.49	8.41	85.1
10/23/2007	3:00:00	9.2	587	8.49	8.47	85.4
10/23/2007	3:15:00	9.1	588	8.49	8.52	85.7
10/23/2007	3:30:00	9.0	589	8.49	8.59	86.2
10/23/2007	3:45:00	8.9	589	8.49	8.56	85.7
10/23/2007	4:00:00	8.8	589	8.49	8.60	85.8
10/23/2007	4:15:00	8.7	589	8.49	8.65	86.0
10/23/2007	4:30:00	8.5	590	8.49	8.66	85.8
10/23/2007	4:45:00	8.4	589	8.49	8.71	86.1
10/23/2007	5:00:00	8.3	589	8.49	8.73	86.1
10/23/2007	5:15:00	8.2	590	8.49	8.73	85.8
10/23/2007	5:30:00	8.0	590	8.49	8.75	85.8
10/23/2007	5:45:00	7.9	590	8.49	8.78	85.8
10/23/2007	6:00:00	7.8	591	8.49	8.83	86.1
10/23/2007	6:15:00	7.7	592	8.48	8.82	85.8
10/23/2007	6:30:00	7.6	592	8.49	8.87	86.1
10/23/2007	6:45:00	7.5	593	8.48	8.87	85.9
10/23/2007	7:00:00	7.4	594	8.50	8.93	86.1
10/23/2007	7:15:00	7.3	594	8.50	8.91	85.7
10/23/2007	7:30:00	7.2	595	8.51	8.96	86.0
10/23/2007	7:45:00	7.1	596	8.52	9.02	86.4
10/23/2007	8:00:00	7.0	596	8.52	9.02	86.3

Table 5.48. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	8:15:00	7.0	596	8.51	9.05	86.4
10/23/2007	8:30:00	6.9	595	8.51	9.10	86.8
10/23/2007	8:45:00	6.9	595	8.52	9.16	87.3
10/23/2007	9:00:00	7.0	595	8.52	9.15	87.3
10/23/2007	9:15:00	7.1	594	8.52	9.16	87.6
10/23/2007	9:30:00	7.2	594	8.52	9.20	88.3
10/23/2007	9:45:00	7.4	593	8.53	9.18	88.5
10/23/2007	10:00:00	7.6	592	8.53	9.21	89.3
10/23/2007	10:15:00	7.8	591	8.53	9.24	90.1
10/23/2007	10:30:00	8.1	590	8.54	9.22	90.5
10/23/2007	10:45:00	8.4	589	8.54	9.23	91.2
10/23/2007	11:00:00	8.6	588	8.54	9.26	92.1
10/23/2007	11:15:00	8.9	587	8.54	9.24	92.5
10/23/2007	11:30:00	9.2	586	8.54	9.20	92.8
10/23/2007	11:45:00	9.6	585	8.55	9.17	93.2
10/23/2007	12:00:00	9.9	585	8.54	9.15	93.7
10/23/2007	12:15:00	10.2	585	8.54	9.12	94.1
10/23/2007	12:30:00	10.5	584	8.55	9.13	95.0
10/23/2007	12:45:00	10.9	585	8.54	9.07	95.1
10/23/2007	13:00:00	11.2	585	8.54	9.07	95.8
10/23/2007	13:15:00	11.5	585	8.54	9.03	96.1
10/23/2007	13:30:00	11.8	586	8.54	8.99	96.3
10/23/2007	13:45:00	12.1	587	8.54	8.93	96.3
10/23/2007	14:00:00	12.4	586	8.54	8.80	95.6
10/23/2007	14:15:00	12.7	588	8.54	8.94	97.7
10/23/2007	14:30:00	12.9	588	8.53	8.89	97.6
10/23/2007	14:45:00	13.1	588	8.53	8.84	97.5
10/23/2007	15:00:00	13.3	589	8.53	8.82	97.7
10/23/2007	15:15:00	13.5	590	8.52	8.79	97.7
10/23/2007	15:30:00	13.6	590	8.52	8.73	97.4
10/23/2007	15:45:00	13.7	591	8.52	8.68	97.1
10/23/2007	16:00:00	13.8	592	8.52	8.63	96.7
10/23/2007	16:15:00	13.9	593	8.52	8.62	96.7
10/23/2007	16:30:00	13.9	593	8.52	8.57	96.2
10/23/2007	16:45:00	13.9	593	8.52	8.53	95.8
10/23/2007	17:00:00	13.9	594	8.52	8.52	95.6
10/23/2007	17:15:00	13.9	594	8.52	8.47	95.0
10/23/2007	17:30:00	13.8	593	8.52	8.47	94.8
10/23/2007	17:45:00	13.7	593	8.52	8.44	94.3
10/23/2007	18:00:00	13.6	593	8.51	8.39	93.6
10/23/2007	18:15:00	13.5	593	8.51	8.36	93.1
10/23/2007	18:30:00	13.4	593	8.51	8.31	92.3
10/23/2007	18:45:00	13.3	594	8.51	8.28	91.7
10/23/2007	19:00:00	13.2	593	8.51	8.26	91.2
10/23/2007	19:15:00	13.1	594	8.51	8.26	91.0

Table 5.48. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	19:30:00	13.0	594	8.51	8.20	90.2
10/23/2007	19:45:00	12.9	594	8.51	8.18	89.8
10/23/2007	20:00:00	12.8	593	8.52	8.19	89.7
10/23/2007	20:15:00	12.7	592	8.52	8.15	89.0
10/23/2007	20:30:00	12.6	593	8.51	8.13	88.6
10/23/2007	20:45:00	12.5	591	8.52	8.15	88.6
10/23/2007	21:00:00	12.3	591	8.52	8.14	88.2
10/23/2007	21:15:00	12.3	592	8.52	8.14	88.1
10/23/2007	21:30:00	12.2	592	8.52	8.10	87.5
10/23/2007	21:45:00	12.1	592	8.52	8.13	87.6
10/23/2007	22:00:00	12.0	592	8.51	8.12	87.3
10/23/2007	22:15:00	11.9	592	8.52	8.10	87.0
10/23/2007	22:30:00	11.9	593	8.52	8.12	87.1
10/23/2007	22:45:00	11.8	593	8.52	8.11	86.8
10/23/2007	23:00:00	11.7	594	8.52	8.12	86.8
10/23/2007	23:15:00	11.6	593	8.52	8.12	86.6
10/23/2007	23:30:00	11.6	594	8.52	8.10	86.3
10/23/2007	23:45:00	11.5	596	8.51	8.12	86.3
10/24/2007	0:00:00	11.4	595	8.52	8.12	86.1
10/24/2007	0:15:00	11.3	597	8.52	8.14	86.2
10/24/2007	0:30:00	11.2	597	8.52	8.13	85.9
10/24/2007	0:45:00	11.1	597	8.52	8.16	86.0
10/24/2007	1:00:00	11.0	598	8.52	8.18	86.0
10/24/2007	1:15:00	10.9	597	8.52	8.21	86.2
10/24/2007	1:30:00	10.8	598	8.52	8.23	86.2
10/24/2007	1:45:00	10.7	598	8.52	8.22	85.9
10/24/2007	2:00:00	10.6	598	8.52	8.28	86.2
10/24/2007	2:15:00	10.5	599	8.52	8.28	86.0
10/24/2007	2:30:00	10.4	599	8.52	8.32	86.2
10/24/2007	2:45:00	10.3	600	8.53	8.35	86.3
10/24/2007	3:00:00	10.2	601	8.52	8.36	86.2
10/24/2007	3:15:00	10.0	603	8.53	8.36	86.0
10/24/2007	3:30:00	9.9	603	8.53	8.40	86.1
10/24/2007	3:45:00	9.8	604	8.52	8.41	86.0
10/24/2007	4:00:00	9.7	605	8.52	8.43	86.0
10/24/2007	4:15:00	9.6	607	8.53	8.50	86.5
10/24/2007	4:30:00	9.5	608	8.53	8.49	86.2
10/24/2007	4:45:00	9.4	610	8.53	8.52	86.2
10/24/2007	5:00:00	9.3	611	8.53	8.51	85.9
10/24/2007	5:15:00	9.2	612	8.53	8.55	86.1
10/24/2007	5:30:00	9.1	614	8.53	8.58	86.2
10/24/2007	5:45:00	8.9	615	8.52	8.62	86.4
10/24/2007	6:00:00	8.8	614	8.53	8.65	86.4
10/24/2007	6:15:00	8.7	615	8.52	8.66	86.3
10/24/2007	6:30:00	8.6	616	8.52	8.71	86.6

Table 5.48. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	6:45:00	8.5	616	8.52	8.71	86.4
10/24/2007	7:00:00	8.4	618	8.52	8.73	86.4
10/24/2007	7:15:00	8.3	617	8.53	8.73	86.2
10/24/2007	7:30:00	8.2	618	8.52	8.78	86.5
10/24/2007	7:45:00	8.2	619	8.52	8.77	86.2
10/24/2007	8:00:00	8.1	619	8.52	8.81	86.5
10/24/2007	8:15:00	8.1	620	8.52	8.80	86.3
10/24/2007	8:30:00	8.0	621	8.52	8.53	83.6
10/24/2007	8:45:00	8.1	623	8.52	8.51	83.5
10/24/2007	9:00:00	8.1	623	8.52	8.52	83.7
10/24/2007	9:15:00	8.2	623	8.53	8.48	83.5
10/24/2007	9:30:00	8.4	624	8.53	8.59	84.9
10/24/2007	9:45:00	8.6	625	8.53	8.56	85.0
10/24/2007	10:00:00	8.8	624	8.53	8.53	85.1
10/24/2007	10:15:00	9.0	625	8.53	8.56	85.9
10/24/2007	10:30:00	9.3	625	8.53	8.57	86.5
10/24/2007	10:45:00	9.6	625	8.54	8.58	87.2
10/24/2007	11:00:00	9.9	626	8.54	8.56	87.6
10/24/2007	11:15:00	10.2	625	8.54	8.58	88.5
10/24/2007	11:30:00	10.5	625	8.54	8.53	88.6
10/24/2007	11:45:00	10.8	626	8.53	8.54	89.4
10/24/2007	12:00:00	11.2	626	8.54	8.55	90.2
10/24/2007	12:15:00	11.5	626	8.54	8.48	90.2
10/24/2007	12:30:00	11.9	626	8.53	8.44	90.5
10/24/2007	12:45:00	12.2	625	8.53	8.40	90.8
10/24/2007	13:00:00	12.6	626	8.53	8.38	91.3
10/24/2007	13:15:00	12.9	626	8.53	8.35	91.7
10/24/2007	13:30:00	13.3	626	8.52	8.24	91.1
10/24/2007	13:45:00	13.6	624	8.52	8.26	92.1
10/24/2007	14:00:00	13.9	625	8.52	8.21	92.1
10/24/2007	14:15:00	14.2	625	8.52	8.15	92.0
10/24/2007	14:30:00	14.4	624	8.51	8.05	91.4
10/24/2007	14:45:00	14.7	624	8.51	8.01	91.4
10/24/2007	15:00:00	14.9	623	8.51	8.01	91.8
10/24/2007	15:15:00	15.1	624	8.51	7.94	91.4
10/24/2007	15:30:00	15.2	623	8.51	7.92	91.5
10/24/2007	15:45:00	15.4	623	8.50	7.84	90.8
10/24/2007	16:00:00	15.4	622	8.50	7.88	91.4
10/24/2007	16:15:00	15.5	622	8.50	7.75	90.0
10/24/2007	16:30:00	15.5	621	8.50	7.70	89.6
10/24/2007	16:45:00	15.6	622	8.50	7.75	90.2
10/24/2007	17:00:00	15.5	621	8.50	7.68	89.3
10/24/2007	17:15:00	15.5	621	8.49	7.65	88.9
10/24/2007	17:30:00	15.4	620	8.49	7.61	88.3
10/24/2007	17:45:00	15.3	621	8.49	7.59	87.9

Table 5.48. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	18:00:00	15.2	620	8.49	7.59	87.6
10/24/2007	18:15:00	15.1	620	8.49	7.50	86.3
10/24/2007	18:30:00	14.9	620	8.49	7.51	86.1
10/24/2007	18:45:00	14.8	619	8.49	7.50	85.8
10/24/2007	19:00:00	14.6	621	8.49	7.51	85.6
10/24/2007	19:15:00	14.5	619	8.49	7.50	85.2
10/24/2007	19:30:00	14.4	619	8.49	7.45	84.5
10/24/2007	19:45:00	14.3	618	8.49	7.49	84.7
10/24/2007	20:00:00	14.1	615	8.49	7.46	84.2
10/24/2007	20:15:00	14.0	617	8.49	7.43	83.6
10/24/2007	20:30:00	13.9	615	8.49	7.45	83.6
10/24/2007	20:45:00	13.7	614	8.49	7.40	82.8
10/24/2007	21:00:00	13.6	615	8.49	7.43	82.8
10/24/2007	21:15:00	13.5	615	8.49	7.39	82.1
10/24/2007	21:30:00	13.3	613	8.49	7.39	81.9
10/24/2007	21:45:00	13.2	615	8.49	7.36	81.4
10/24/2007	22:00:00	13.1	615	8.50	7.38	81.5
10/24/2007	22:15:00	13.0	615	8.50	7.34	80.7
10/24/2007	22:30:00	12.9	614	8.50	7.38	81.0
10/24/2007	22:45:00	12.8	611	8.50	7.40	81.0
10/24/2007	23:00:00	12.7	610	8.50	7.35	80.3
10/24/2007	23:15:00	12.6	607	8.49	7.37	80.4
10/24/2007	23:30:00	12.5	608	8.49	7.38	80.3
10/24/2007	23:45:00	12.4	606	8.49	7.41	80.5
10/25/2007	0:00:00	12.3	609	8.50	7.41	80.3
10/25/2007	0:15:00	12.2	608	8.49	7.43	80.3
10/25/2007	0:30:00	12.1	609	8.49	7.42	80.0
10/25/2007	0:45:00	12.0	609	8.50	7.46	80.2
10/25/2007	1:00:00	11.9	611	8.49	7.48	80.3
10/25/2007	1:15:00	11.8	614	8.49	7.47	80.0
10/25/2007	1:30:00	11.7	614	8.49	7.49	80.0
10/25/2007	1:45:00	11.6	616	8.49	7.52	80.1
10/25/2007	2:00:00	11.5	617	8.49	7.52	79.9
10/25/2007	2:15:00	11.4	619	8.49	7.51	79.6
10/25/2007	2:30:00	11.2	622	8.49	7.55	79.8
10/25/2007	2:45:00	11.1	621	8.49	7.56	79.7
10/25/2007	3:00:00	11.0	623	8.49	7.60	80.0
10/25/2007	3:15:00	10.9	625	8.49	7.61	79.9
10/25/2007	3:30:00	10.8	626	8.48	7.65	80.1
10/25/2007	3:45:00	10.7	627	8.48	7.69	80.3
10/25/2007	4:00:00	10.6	628	8.48	7.66	79.8
10/25/2007	4:15:00	10.5	628	8.48	7.69	79.9
10/25/2007	4:30:00	10.4	629	8.48	7.70	79.8
10/25/2007	4:45:00	10.3	630	8.48	7.75	80.1
10/25/2007	5:00:00	10.1	629	8.48	7.76	79.9

Table 5.48. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	5:15:00	10.0	628	8.47	7.74	79.5
10/25/2007	5:30:00	9.9	627	8.48	7.81	80.0
10/25/2007	5:45:00	9.8	625	8.47	7.80	79.7
10/25/2007	6:00:00	9.7	624	8.47	7.85	80.0
10/25/2007	6:15:00	9.6	623	8.47	7.91	80.4
10/25/2007	6:30:00	9.4	621	8.47	7.93	80.4
10/25/2007	6:45:00	9.3	621	8.47	7.92	80.1
10/25/2007	7:00:00	9.2	620	8.47	7.93	79.9
10/25/2007	7:15:00	9.1	619	8.46	8.02	80.7
10/25/2007	7:30:00	9.0	620	8.46	8.03	80.5
10/25/2007	7:45:00	8.9	619	8.46	8.05	80.5
10/25/2007	8:00:00	8.8	620	8.46	8.02	80.1
10/25/2007	8:15:00	8.8	619	8.46	8.05	80.3
10/25/2007	8:30:00	8.7	620	8.46	8.06	80.3
10/25/2007	8:45:00	8.7	621	8.46	8.11	80.8
10/25/2007	9:00:00	8.8	622	8.46	8.12	81.1
10/25/2007	9:15:00	8.9	623	8.46	8.13	81.4
10/25/2007	9:30:00	9.0	623	8.46	8.15	81.8
10/25/2007	9:45:00	9.2	623	8.47	8.16	82.2
10/25/2007	10:00:00	9.4	624	8.47	8.14	82.5
10/25/2007	10:15:00	9.7	626	8.47	8.16	83.2
10/25/2007	10:30:00	10.0	626	8.47	8.19	84.1
10/25/2007	10:45:00	10.3	626	8.47	8.17	84.4
10/25/2007	11:00:00	10.5	626	8.47	8.16	84.9
10/25/2007	11:15:00	10.9	624	8.47	8.11	85.0
10/25/2007	11:30:00	11.2	623	8.47	8.08	85.3
10/25/2007	11:45:00	11.5	623	8.47	8.08	86.0
10/25/2007	12:00:00	11.9	620	8.47	8.01	86.0
10/25/2007	12:15:00	12.2	617	8.47	8.02	86.7
10/25/2007	12:30:00	12.6	616	8.47	8.00	87.2
10/25/2007	12:45:00	12.9	612	8.46	7.94	87.2
10/25/2007	13:00:00	13.3	610	8.46	7.87	87.2
10/25/2007	13:15:00	13.6	607	8.46	7.88	87.9
10/25/2007	13:30:00	14.0	604	8.46	7.83	88.1
10/25/2007	13:45:00	14.3	602	8.46	7.79	88.1
10/25/2007	14:00:00	14.6	600	8.46	7.72	87.9
10/25/2007	14:15:00	14.9	598	8.46	7.63	87.5
10/25/2007	14:30:00	15.1	598	8.45	7.70	88.6
10/25/2007	14:45:00	15.3	597	8.45	7.71	89.2
10/25/2007	15:00:00	15.5	596	8.45	7.66	89.0
10/25/2007	15:15:00	15.6	595	8.45	7.50	87.5
10/25/2007	15:30:00	15.8	594	8.45	7.40	86.5
10/25/2007	15:45:00	15.9	594	8.45	7.41	86.8
10/25/2007	16:00:00	16.0	595	8.45	7.47	87.7
10/25/2007	16:15:00	16.0	596	8.45	7.53	88.4

Table 5.48. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	16:30:00	16.0	595	8.44	7.38	86.6
10/25/2007	16:45:00	16.0	595	8.44	7.39	86.8
10/25/2007	17:00:00	15.9	596	8.44	7.35	86.2
10/25/2007	17:15:00	15.9	596	8.44	7.23	84.6
10/25/2007	17:30:00	15.7	596	8.44	7.18	83.8
10/25/2007	17:45:00	15.6	596	8.44	7.15	83.3
10/25/2007	18:00:00	15.5	596	8.44	7.12	82.7
10/25/2007	18:15:00	15.3	598	8.44	7.21	83.4
10/25/2007	18:30:00	15.1	598	8.44	7.18	82.8
10/25/2007	18:45:00	15.0	600	8.44	7.18	82.5
10/25/2007	19:00:00	14.8	600	8.44	7.07	80.9
10/25/2007	19:15:00	14.7	601	8.44	7.05	80.4
10/25/2007	19:30:00	14.5	602	8.44	7.09	80.6
10/25/2007	19:45:00	14.4	603	8.44	7.09	80.4
10/25/2007	20:00:00	14.2	603	8.44	7.13	80.6
10/25/2007	20:15:00	14.1	605	8.44	7.11	80.2
10/25/2007	20:30:00	14.0	606	8.44	7.07	79.4
10/25/2007	20:45:00	13.8	606	8.44	7.10	79.6
10/25/2007	21:00:00	13.7	607	8.45	7.75	86.5
10/25/2007	21:15:00	13.5	608	8.45	7.73	86.1
10/25/2007	21:30:00	13.4	609	8.45	7.75	86.0
10/25/2007	21:45:00	13.3	610	8.45	7.76	85.9
10/25/2007	22:00:00	13.2	611	8.45	7.76	85.7
10/25/2007	22:15:00	13.1	611	8.45	7.76	85.6
10/25/2007	22:30:00	13.0	611	8.45	7.75	85.4
10/25/2007	22:45:00	13.0	612	8.45	7.74	85.1
10/25/2007	23:00:00	12.9	612	8.45	7.76	85.2
10/25/2007	23:15:00	12.8	615	8.45	7.73	84.6
10/25/2007	23:30:00	12.7	615	8.46	7.74	84.6
10/25/2007	23:45:00	12.7	617	8.46	7.75	84.7
10/26/2007	0:00:00	12.6	617	8.46	7.77	84.7
10/26/2007	0:15:00	12.5	618	8.46	7.78	84.6
10/26/2007	0:30:00	12.4	618	8.46	7.79	84.6
10/26/2007	0:45:00	12.4	617	8.46	7.78	84.4
10/26/2007	1:00:00	12.3	617	8.46	7.82	84.6
10/26/2007	1:15:00	12.2	616	8.46	7.82	84.5
10/26/2007	1:30:00	12.1	616	8.46	7.86	84.7
10/26/2007	1:45:00	12.0	613	8.46	7.84	84.3
10/26/2007	2:00:00	11.9	613	8.46	7.87	84.4
10/26/2007	2:15:00	11.7	613	8.46	7.88	84.3
10/26/2007	2:30:00	11.6	614	8.46	7.91	84.3
10/26/2007	2:45:00	11.5	615	8.46	7.93	84.3
10/26/2007	3:00:00	11.4	616	8.46	7.96	84.4
10/26/2007	3:15:00	11.2	618	8.47	7.97	84.3
10/26/2007	3:30:00	11.1	619	8.47	8.00	84.3

Table 5.48. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/26/2007	3:45:00	11.0	619	8.46	8.04	84.5
10/26/2007	4:00:00	10.9	620	8.46	8.05	84.4
10/26/2007	4:15:00	10.8	621	8.46	8.03	83.9
10/26/2007	4:30:00	10.6	622	8.46	8.04	83.9
10/26/2007	4:45:00	10.5	622	8.46	8.07	83.9
10/26/2007	5:00:00	10.4	621	8.46	8.12	84.2
10/26/2007	5:15:00	10.3	619	8.46	8.13	84.0
10/26/2007	5:30:00	10.2	619	8.46	8.12	83.7
10/26/2007	5:45:00	10.0	619	8.47	8.15	83.8
10/26/2007	6:00:00	9.9	619	8.47	8.22	84.2
10/26/2007	6:15:00	9.8	621	8.47	8.22	84.0
10/26/2007	6:30:00	9.7	622	8.47	8.24	83.9
10/26/2007	6:45:00	9.5	623	8.47	8.29	84.2
10/26/2007	7:00:00	9.4	625	8.47	8.31	84.1
10/26/2007	7:15:00	9.3	627	8.47	8.32	84.0
10/26/2007	7:30:00	9.2	629	8.47	8.39	84.5
10/26/2007	7:45:00	9.0	632	8.47	8.42	84.5
10/26/2007	8:00:00	9.0	635	8.48	8.43	84.5
10/26/2007	8:15:00	8.9	637	8.48	8.46	84.6
10/26/2007	8:30:00	8.8	641	8.48	8.49	84.9
10/26/2007	8:45:00	8.8	643	8.48	8.54	85.3
10/26/2007	9:00:00	8.9	645	8.48	8.56	85.7
10/26/2007	9:15:00	9.0	647	8.48	8.61	86.4
10/26/2007	9:30:00	9.2	648	8.49	8.59	86.6
10/26/2007	9:45:00	9.4	650	8.49	8.63	87.4
10/26/2007	10:00:00	9.6	651	8.49	8.63	87.8
10/26/2007	10:15:00	9.9	653	8.49	8.65	88.5

Table 5.49. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

In-Situ Probe:	**Troll 9000 LTS**	
Report generated:	**3/24/2008**	**11:07:13**
Report from file:	**...\SN45476 2007-10-22 100000 Site6_10_22_07Ap.bin**	
Win-Situ Version	**4.55.3.0**	
Serial number:	**45473**	
Firmware Version	**2**	
Unit name:	**Apollo**	
Barometric Pressure:		**660**
Test defined on:	**10/22/2007**	**9:40:23**
Test scheduled for:	**10/22/2007**	**10:00:00**
Test started on:	**10/22/2007**	**10:00:00**
Test stopped on:	**10/26/2007**	**15:19:54**
Data gathered using linear testing		
Time between data points		**900 seconds**
Number of data samples:		**406**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
10/22/2007	10:45:00	6.91	10.57	100.1
10/22/2007	11:00:00	7.25	10.61	101.4
10/22/2007	11:15:00	7.64	10.60	102.3
10/22/2007	11:30:00	8.04	10.57	103.0
10/22/2007	11:45:00	8.43	10.53	103.6
10/22/2007	12:00:00	8.86	10.48	104.2
10/22/2007	12:15:00	9.28	10.42	104.7
10/22/2007	12:30:00	9.74	10.35	105.1
10/22/2007	12:45:00	10.18	10.28	105.5
10/22/2007	13:00:00	10.61	10.20	105.7
10/22/2007	13:15:00	11.03	10.12	105.9
10/22/2007	13:30:00	11.42	10.04	106.0
10/22/2007	13:45:00	11.79	9.96	106.1
10/22/2007	14:00:00	12.14	9.87	106.1
10/22/2007	14:15:00	12.48	9.80	106.1
10/22/2007	14:30:00	12.75	9.73	105.9
10/22/2007	14:45:00	12.98	9.66	105.8
10/22/2007	15:00:00	13.16	9.60	105.5
10/22/2007	15:15:00	13.27	9.54	105.1
10/22/2007	15:30:00	13.35	9.49	104.8
10/22/2007	15:45:00	13.42	9.45	104.5
10/22/2007	16:00:00	13.47	9.41	104.2
10/22/2007	16:15:00	13.51	9.37	103.8
10/22/2007	16:30:00	13.48	9.33	103.3
10/22/2007	16:45:00	13.40	9.30	102.7
10/22/2007	17:00:00	13.27	9.26	102.0
10/22/2007	17:15:00	13.12	9.23	101.3
10/22/2007	17:30:00	12.89	9.21	100.6

Table 5.49. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/22/2007	17:45:00	12.66	9.19	99.9
10/22/2007	18:00:00	12.44	9.18	99.3
10/22/2007	18:15:00	12.23	9.17	98.7
10/22/2007	18:30:00	12.08	9.17	98.3
10/22/2007	18:45:00	11.91	9.16	97.9
10/22/2007	19:00:00	11.69	9.16	97.4
10/22/2007	19:15:00	11.47	9.17	97.0
10/22/2007	19:30:00	11.27	9.18	96.6
10/22/2007	19:45:00	11.07	9.20	96.4
10/22/2007	20:00:00	10.88	9.21	96.1
10/22/2007	20:15:00	10.70	9.23	95.9
10/22/2007	20:30:00	10.52	9.25	95.7
10/22/2007	20:45:00	10.33	9.28	95.6
10/22/2007	21:00:00	10.15	9.30	95.4
10/22/2007	21:15:00	9.99	9.33	95.3
10/22/2007	21:30:00	9.84	9.35	95.2
10/22/2007	21:45:00	9.71	9.37	95.1
10/22/2007	22:00:00	9.57	9.39	95.0
10/22/2007	22:15:00	9.42	9.42	94.9
10/22/2007	22:30:00	9.29	9.44	94.9
10/22/2007	22:45:00	9.13	9.47	94.8
10/22/2007	23:00:00	8.99	9.50	94.8
10/22/2007	23:15:00	8.86	9.53	94.7
10/22/2007	23:30:00	8.71	9.56	94.7
10/22/2007	23:45:00	8.55	9.59	94.7
10/23/2007	0:00:00	8.40	9.63	94.7
10/23/2007	0:15:00	8.26	9.66	94.7
10/23/2007	0:30:00	8.12	9.70	94.8
10/23/2007	0:45:00	7.98	9.76	95.0
10/23/2007	1:00:00	7.84	9.80	95.1
10/23/2007	1:15:00	7.70	9.84	95.1
10/23/2007	1:30:00	7.57	9.86	95.0
10/23/2007	1:45:00	7.44	9.88	94.9
10/23/2007	2:00:00	7.31	9.91	94.9
10/23/2007	2:15:00	7.20	9.93	94.8
10/23/2007	2:30:00	7.09	9.95	94.8
10/23/2007	2:45:00	6.98	9.98	94.7
10/23/2007	3:00:00	6.87	10.00	94.7
10/23/2007	3:15:00	6.76	10.02	94.6
10/23/2007	3:30:00	6.65	10.04	94.5
10/23/2007	3:45:00	6.53	10.06	94.4
10/23/2007	4:00:00	6.43	10.08	94.4
10/23/2007	4:15:00	6.33	10.10	94.3
10/23/2007	4:30:00	6.24	10.12	94.3
10/23/2007	4:45:00	6.14	10.14	94.2
10/23/2007	5:00:00	6.03	10.16	94.1

Table 5.49. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	5:15:00	5.93	10.17	94.0
10/23/2007	5:30:00	5.84	10.19	94.0
10/23/2007	5:45:00	5.73	10.20	93.8
10/23/2007	6:00:00	5.66	10.21	93.8
10/23/2007	6:15:00	5.56	10.23	93.7
10/23/2007	6:30:00	5.47	10.24	93.6
10/23/2007	6:45:00	5.37	10.26	93.5
10/23/2007	7:00:00	5.30	10.27	93.4
10/23/2007	7:15:00	5.22	10.28	93.3
10/23/2007	7:30:00	5.14	10.30	93.3
10/23/2007	7:45:00	5.02	10.31	93.1
10/23/2007	8:00:00	4.98	10.32	93.1
10/23/2007	8:15:00	4.97	10.33	93.2
10/23/2007	8:30:00	4.93	10.34	93.2
10/23/2007	8:45:00	4.95	10.35	93.3
10/23/2007	9:00:00	5.01	10.35	93.4
10/23/2007	9:15:00	5.11	10.35	93.7
10/23/2007	9:30:00	5.20	10.35	93.9
10/23/2007	9:45:00	5.34	10.33	94.1
10/23/2007	10:00:00	5.58	10.73	98.3
10/23/2007	10:15:00	5.86	10.73	99.0
10/23/2007	10:30:00	6.16	10.73	99.8
10/23/2007	10:45:00	6.47	10.72	100.5
10/23/2007	11:00:00	6.81	10.70	101.2
10/23/2007	11:15:00	7.16	10.68	101.9
10/23/2007	11:30:00	7.57	10.65	102.6
10/23/2007	11:45:00	7.97	10.61	103.3
10/23/2007	12:00:00	8.38	10.57	103.8
10/23/2007	12:15:00	8.82	10.51	104.4
10/23/2007	12:30:00	9.23	10.44	104.8
10/23/2007	12:45:00	9.67	10.37	105.2
10/23/2007	13:00:00	10.09	10.30	105.5
10/23/2007	13:15:00	10.54	10.23	105.8
10/23/2007	13:30:00	10.97	10.14	106.0
10/23/2007	13:45:00	11.27	10.06	105.9
10/23/2007	14:00:00	11.83	9.98	106.4
10/23/2007	14:15:00	12.16	9.89	106.3
10/23/2007	14:30:00	12.24	9.80	105.5
10/23/2007	14:45:00	12.53	9.73	105.4
10/23/2007	15:00:00	12.82	9.65	105.2
10/23/2007	15:15:00	13.07	9.57	105.0
10/23/2007	15:30:00	13.28	9.48	104.5
10/23/2007	15:45:00	13.85	9.41	105.0
10/23/2007	16:00:00	14.00	9.34	104.6
10/23/2007	16:15:00	14.04	9.28	104.0
10/23/2007	16:30:00	14.04	9.22	103.4

Table 5.49. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	16:45:00	14.02	9.17	102.8
10/23/2007	17:00:00	14.01	9.12	102.2
10/23/2007	17:15:00	14.09	9.08	101.9
10/23/2007	17:30:00	14.09	9.04	101.5
10/23/2007	17:45:00	14.01	9.01	100.9
10/23/2007	18:00:00	13.90	8.98	100.3
10/23/2007	18:15:00	13.79	8.95	99.8
10/23/2007	18:30:00	13.67	8.93	99.3
10/23/2007	18:45:00	13.54	8.91	98.7
10/23/2007	19:00:00	13.38	8.89	98.2
10/23/2007	19:15:00	13.23	8.87	97.6
10/23/2007	19:30:00	13.08	8.87	97.4
10/23/2007	19:45:00	12.93	8.88	97.1
10/23/2007	20:00:00	12.78	8.88	96.7
10/23/2007	20:15:00	12.61	8.88	96.4
10/23/2007	20:30:00	12.43	8.90	96.2
10/23/2007	20:45:00	12.23	8.91	95.9
10/23/2007	21:00:00	12.07	8.92	95.7
10/23/2007	21:15:00	11.93	8.93	95.5
10/23/2007	21:30:00	11.81	8.95	95.4
10/23/2007	21:45:00	11.69	8.96	95.2
10/23/2007	22:00:00	11.59	8.97	95.2
10/23/2007	22:15:00	11.47	8.99	95.1
10/23/2007	22:30:00	11.36	9.01	95.1
10/23/2007	22:45:00	11.23	9.02	94.9
10/23/2007	23:00:00	11.12	9.03	94.7
10/23/2007	23:15:00	10.98	9.05	94.6
10/23/2007	23:30:00	10.84	9.08	94.6
10/23/2007	23:45:00	10.71	9.10	94.5
10/24/2007	0:00:00	10.56	9.10	94.2
10/24/2007	0:15:00	10.43	9.11	94.0
10/24/2007	0:30:00	10.31	9.11	93.8
10/24/2007	0:45:00	10.20	9.12	93.7
10/24/2007	1:00:00	10.07	9.14	93.5
10/24/2007	1:15:00	9.95	9.15	93.4
10/24/2007	1:30:00	9.81	9.15	93.1
10/24/2007	1:45:00	9.69	9.17	93.0
10/24/2007	2:00:00	9.57	9.19	93.0
10/24/2007	2:15:00	9.44	9.22	92.9
10/24/2007	2:30:00	9.33	9.24	92.9
10/24/2007	2:45:00	9.21	9.27	92.9
10/24/2007	3:00:00	9.08	9.28	92.8
10/24/2007	3:15:00	8.96	9.29	92.6
10/24/2007	3:30:00	8.84	9.30	92.5
10/24/2007	3:45:00	8.71	9.31	92.2
10/24/2007	4:00:00	8.59	9.32	92.1

Table 5.49. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	4:15:00	8.46	9.34	91.9
10/24/2007	4:30:00	8.34	9.35	91.8
10/24/2007	4:45:00	8.22	9.37	91.7
10/24/2007	5:00:00	8.11	9.38	91.6
10/24/2007	5:15:00	7.98	9.40	91.5
10/24/2007	5:30:00	7.87	9.42	91.4
10/24/2007	5:45:00	7.76	9.44	91.3
10/24/2007	6:00:00	7.63	9.45	91.2
10/24/2007	6:15:00	7.49	9.47	91.1
10/24/2007	6:30:00	7.40	9.49	91.0
10/24/2007	6:45:00	7.30	9.50	90.9
10/24/2007	7:00:00	7.21	9.52	90.9
10/24/2007	7:15:00	7.11	9.53	90.8
10/24/2007	7:30:00	7.02	9.54	90.7
10/24/2007	7:45:00	6.94	9.55	90.6
10/24/2007	8:00:00	6.87	9.56	90.5
10/24/2007	8:15:00	6.83	9.57	90.5
10/24/2007	8:30:00	6.81	9.58	90.5
10/24/2007	8:45:00	6.79	9.58	90.5
10/24/2007	9:00:00	6.79	9.59	90.6
10/24/2007	9:15:00	6.83	9.58	90.6
10/24/2007	9:30:00	6.91	9.58	90.8
10/24/2007	9:45:00	7.01	9.57	90.9
10/24/2007	10:00:00	7.13	9.55	91.0
10/24/2007	10:15:00	7.27	9.53	91.1
10/24/2007	10:30:00	7.44	9.51	91.3
10/24/2007	10:45:00	7.67	9.48	91.6
10/24/2007	11:00:00	7.90	9.46	91.9
10/24/2007	11:15:00	8.15	9.44	92.2
10/24/2007	11:30:00	8.41	9.41	92.6
10/24/2007	11:45:00	8.68	9.38	92.9
10/24/2007	12:00:00	8.99	9.34	93.2
10/24/2007	12:15:00	9.33	9.31	93.6
10/24/2007	12:30:00	9.63	9.26	93.7
10/24/2007	12:45:00	9.98	9.22	94.2
10/24/2007	13:00:00	10.32	9.23	95.1
10/24/2007	13:15:00	10.64	9.22	95.6
10/24/2007	13:30:00	11.03	9.22	96.5
10/24/2007	13:45:00	11.41	9.17	96.9
10/24/2007	14:00:00	11.79	9.16	97.6
10/24/2007	14:15:00	12.17	9.04	97.2
10/24/2007	14:30:00	12.50	8.99	97.4
10/24/2007	14:45:00	12.83	8.92	97.3
10/24/2007	15:00:00	13.13	8.76	96.2
10/24/2007	15:15:00	13.45	8.77	97.0
10/24/2007	15:30:00	13.71	8.70	96.8

Table 5.49. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	15:45:00	13.89	8.64	96.5
10/24/2007	16:00:00	14.06	8.50	95.3
10/24/2007	16:15:00	14.22	8.32	93.7
10/24/2007	16:30:00	14.56	8.07	91.5
10/24/2007	16:45:00	14.93	7.98	91.2
10/24/2007	17:00:00	15.22	7.91	90.9
10/24/2007	17:15:00	15.37	7.86	90.6
10/24/2007	17:30:00	15.40	7.81	90.2
10/24/2007	17:45:00	15.42	7.77	89.7
10/24/2007	18:00:00	15.43	7.72	89.2
10/24/2007	18:15:00	15.44	7.69	88.8
10/24/2007	18:30:00	15.39	7.66	88.4
10/24/2007	18:45:00	15.33	7.64	88.1
10/24/2007	19:00:00	15.23	7.62	87.6
10/24/2007	19:15:00	15.13	7.59	87.2
10/24/2007	19:30:00	15.03	7.57	86.7
10/24/2007	19:45:00	14.91	7.55	86.2
10/24/2007	20:00:00	14.80	7.53	85.8
10/24/2007	20:15:00	14.68	7.52	85.4
10/24/2007	20:30:00	14.57	7.51	85.1
10/24/2007	20:45:00	14.45	7.50	84.8
10/24/2007	21:00:00	14.33	7.51	84.7
10/24/2007	21:15:00	14.20	7.55	84.9
10/24/2007	21:30:00	14.07	7.60	85.3
10/24/2007	21:45:00	13.93	7.65	85.5
10/24/2007	22:00:00	13.82	7.68	85.6
10/24/2007	22:15:00	13.70	7.68	85.4
10/24/2007	22:30:00	13.57	7.67	85.1
10/24/2007	22:45:00	13.44	7.67	84.8
10/24/2007	23:00:00	13.34	7.66	84.5
10/24/2007	23:15:00	13.23	7.65	84.2
10/24/2007	23:30:00	13.13	7.61	83.6
10/24/2007	23:45:00	13.01	7.61	83.3
10/25/2007	0:00:00	12.87	7.70	84.1
10/25/2007	0:15:00	12.71	7.82	85.0
10/25/2007	0:30:00	12.55	7.90	85.6
10/25/2007	0:45:00	12.36	7.98	86.1
10/25/2007	1:00:00	12.20	8.03	86.4
10/25/2007	1:15:00	12.07	8.06	86.4
10/25/2007	1:30:00	11.93	8.09	86.4
10/25/2007	1:45:00	11.77	8.15	86.7
10/25/2007	2:00:00	11.59	8.19	86.8
10/25/2007	2:15:00	11.41	8.24	87.0
10/25/2007	2:30:00	11.21	8.26	86.9
10/25/2007	2:45:00	11.04	8.28	86.8
10/25/2007	3:00:00	10.90	8.30	86.6

Table 5.49. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	3:15:00	10.76	8.30	86.4
10/25/2007	3:30:00	10.65	8.31	86.2
10/25/2007	3:45:00	10.53	8.29	85.8
10/25/2007	4:00:00	10.39	8.32	85.9
10/25/2007	4:15:00	10.26	8.34	85.7
10/25/2007	4:30:00	10.13	8.35	85.6
10/25/2007	4:45:00	10.03	8.35	85.4
10/25/2007	5:00:00	9.92	8.34	85.0
10/25/2007	5:15:00	9.82	8.29	84.4
10/25/2007	5:30:00	9.69	8.27	83.9
10/25/2007	5:45:00	9.56	8.25	83.4
10/25/2007	6:00:00	9.42	8.24	83.0
10/25/2007	6:15:00	9.29	8.22	82.6
10/25/2007	6:30:00	9.18	8.22	82.4
10/25/2007	6:45:00	9.06	8.23	82.3
10/25/2007	7:00:00	8.94	8.24	82.1
10/25/2007	7:15:00	8.82	8.25	82.0
10/25/2007	7:30:00	8.64	8.31	82.2
10/25/2007	7:45:00	8.43	8.33	82.0
10/25/2007	8:00:00	8.20	8.35	81.7
10/25/2007	8:15:00	8.04	8.36	81.5
10/25/2007	8:30:00	7.94	8.36	81.3
10/25/2007	8:45:00	7.87	8.36	81.1
10/25/2007	9:00:00	7.84	8.35	80.9
10/25/2007	9:15:00	7.83	8.33	80.7
10/25/2007	9:30:00	7.87	8.30	80.6
10/25/2007	9:45:00	7.94	8.27	80.4
10/25/2007	10:00:00	8.06	8.25	80.4
10/25/2007	10:15:00	8.19	8.21	80.3
10/25/2007	10:30:00	8.36	8.17	80.2
10/25/2007	10:45:00	8.57	8.11	80.1
10/25/2007	11:00:00	8.84	8.06	80.1
10/25/2007	11:15:00	9.15	8.00	80.1
10/25/2007	11:30:00	9.47	7.94	80.2
10/25/2007	11:45:00	9.85	7.88	80.3
10/25/2007	12:00:00	10.23	7.82	80.3
10/25/2007	12:15:00	10.62	7.75	80.3
10/25/2007	12:30:00	10.99	7.67	80.2
10/25/2007	12:45:00	11.41	7.59	80.1
10/25/2007	13:00:00	11.82	7.50	80.0
10/25/2007	13:15:00	12.27	7.41	79.8
10/25/2007	13:30:00	12.73	7.32	79.6
10/25/2007	13:45:00	13.15	7.22	79.3
10/25/2007	14:00:00	13.54	7.11	78.8
10/25/2007	14:15:00	13.92	7.00	78.3
10/25/2007	14:30:00	14.28	6.89	77.6

Table 5.49. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	14:45:00	14.65	6.77	76.9
10/25/2007	15:00:00	14.98	6.65	76.1
10/25/2007	15:15:00	15.27	6.53	75.2
10/25/2007	15:30:00	15.54	6.41	74.2
10/25/2007	15:45:00	15.81	6.28	73.2
10/25/2007	16:00:00	16.04	6.16	72.1
10/25/2007	16:15:00	16.26	6.04	71.1
10/25/2007	16:30:00	16.39	5.94	70.0
10/25/2007	16:45:00	16.51	5.84	69.1
10/25/2007	17:00:00	16.57	5.75	68.1
10/25/2007	17:15:00	16.62	5.66	67.1
10/25/2007	17:30:00	16.64	5.57	66.1
10/25/2007	17:45:00	16.62	5.49	65.1
10/25/2007	18:00:00	16.57	5.41	64.0
10/25/2007	18:15:00	16.51	5.33	63.1
10/25/2007	18:30:00	16.42	5.26	62.1
10/25/2007	18:45:00	16.33	5.19	61.2
10/25/2007	19:00:00	16.22	5.13	60.3
10/25/2007	19:15:00	16.09	5.07	59.4
10/25/2007	19:30:00	15.97	5.01	58.6
10/25/2007	19:45:00	15.83	4.96	57.7
10/25/2007	20:00:00	15.68	4.91	57.0
10/25/2007	20:15:00	15.54	4.88	56.5
10/25/2007	20:30:00	15.39	4.86	56.1
10/25/2007	20:45:00	15.23	4.85	55.8
10/25/2007	21:00:00	15.06	4.85	55.6
10/25/2007	21:15:00	14.90	4.87	55.6
10/25/2007	21:30:00	14.74	4.89	55.7
10/25/2007	21:45:00	14.58	4.91	55.7
10/25/2007	22:00:00	14.42	4.92	55.6
10/25/2007	22:15:00	14.27	4.93	55.6
10/25/2007	22:30:00	14.11	4.94	55.5
10/25/2007	22:45:00	13.96	4.96	55.4
10/25/2007	23:00:00	13.80	4.97	55.4
10/25/2007	23:15:00	13.65	4.99	55.5
10/25/2007	23:30:00	13.49	5.02	55.5
10/25/2007	23:45:00	13.34	5.04	55.7
10/26/2007	0:00:00	13.19	5.07	55.8
10/26/2007	0:15:00	13.04	5.11	56.0
10/26/2007	0:30:00	12.90	5.14	56.2
10/26/2007	0:45:00	12.74	5.18	56.4
10/26/2007	1:00:00	12.60	5.22	56.6
10/26/2007	1:15:00	12.44	5.25	56.8
10/26/2007	1:30:00	12.29	5.29	57.1
10/26/2007	1:45:00	12.13	5.34	57.3
10/26/2007	2:00:00	11.96	5.38	57.6

Table 5.49. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/26/2007	2:15:00	11.80	5.44	58.0
10/26/2007	2:30:00	11.66	5.51	58.5
10/26/2007	2:45:00	11.51	5.59	59.2
10/26/2007	3:00:00	11.37	5.67	59.8
10/26/2007	3:15:00	11.23	5.75	60.5
10/26/2007	3:30:00	11.10	5.83	61.2
10/26/2007	3:45:00	10.98	5.90	61.7
10/26/2007	4:00:00	10.84	5.97	62.2
10/26/2007	4:15:00	10.73	6.03	62.7
10/26/2007	4:30:00	10.60	6.09	63.1
10/26/2007	4:45:00	10.48	6.14	63.5
10/26/2007	5:00:00	10.34	6.20	63.8
10/26/2007	5:15:00	10.22	6.25	64.1
10/26/2007	5:30:00	10.09	6.30	64.5
10/26/2007	5:45:00	9.97	6.35	64.9
10/26/2007	6:00:00	9.85	6.40	65.2
10/26/2007	6:15:00	9.74	6.46	65.6
10/26/2007	6:30:00	9.62	6.51	66.0
10/26/2007	6:45:00	9.51	6.57	66.3
10/26/2007	7:00:00	9.40	6.61	66.6
10/26/2007	7:15:00	9.31	6.65	66.8
10/26/2007	7:30:00	9.21	6.68	66.9
10/26/2007	7:45:00	9.11	6.70	67.1
10/26/2007	8:00:00	9.01	6.72	67.1
10/26/2007	8:15:00	8.92	6.73	67.0
10/26/2007	8:30:00	8.82	6.75	67.1
10/26/2007	8:45:00	8.73	6.77	67.1

Table 5.50. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**		
Log	**File**	**Name**	**:**	**SITE6-10-22-07**		
Setup	**Date**	**(MMDDYY)**	**:**	**10/18/2007**		
Setup	**Time**	**(HHMMSS)**	**:**	**132514**		
Starting	**Date**	**(MMDDYY)**	**:**	**10/22/2007**		
Starting	**Time**	**(HHMMSS)**	**:**	**90000**		
Stopping	**Date**	**(MMDDYY)**	**:**	**11/2/2007**		
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**		
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**		
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**		
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**		

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
10/22/2007	10:45:00	6.6	607	8.39	10.58	99.5
10/22/2007	11:00:00	6.9	608	8.41	10.52	99.8
10/22/2007	11:15:00	7.3	613	8.43	10.31	98.9
10/22/2007	11:30:00	7.7	613	8.44	10.30	99.7
10/22/2007	11:45:00	8.1	613	8.45	10.20	99.7
10/22/2007	12:00:00	8.5	610	8.46	10.14	100.1
10/22/2007	12:15:00	9.0	608	8.46	10.11	100.9
10/22/2007	12:30:00	9.4	603	8.47	9.99	100.8
10/22/2007	12:45:00	9.9	587	8.47	9.94	101.2
10/22/2007	13:00:00	10.3	578	8.47	9.84	101.3
10/22/2007	13:15:00	10.7	545	8.47	9.74	101.2
10/22/2007	13:30:00	11.1	558	8.48	9.68	101.6
10/22/2007	13:45:00	11.5	521	8.48	9.56	101.1
10/22/2007	14:00:00	11.8	517	8.49	9.48	101.1
10/22/2007	14:15:00	12.2	514	8.49	9.44	101.4
10/22/2007	14:30:00	12.4	506	8.49	9.39	101.5
10/22/2007	14:45:00	12.7	503	8.49	9.34	101.5
10/22/2007	15:00:00	12.8	501	8.49	9.28	101.3
10/22/2007	15:15:00	13.0	494	8.50	9.24	101.0
10/22/2007	15:30:00	13.0	489	8.49	9.19	100.6
10/22/2007	15:45:00	13.1	480	8.49	9.20	101.0
10/22/2007	16:00:00	13.2	472	8.49	9.16	100.6
10/22/2007	16:15:00	13.2	470	8.50	9.15	100.6
10/22/2007	16:30:00	13.2	449	8.50	9.09	99.8
10/22/2007	16:45:00	13.1	400	8.49	9.07	99.4
10/22/2007	17:00:00	13.0	388	8.49	9.09	99.3
10/22/2007	17:15:00	12.8	383	8.49	9.04	98.4
10/22/2007	17:30:00	12.6	379	8.49	9.04	97.9
10/22/2007	17:45:00	12.3	376	8.50	9.08	97.8
10/22/2007	18:00:00	12.1	371	8.50	9.07	97.3
10/22/2007	18:15:00	11.9	370	8.50	9.05	96.6
10/22/2007	18:30:00	11.7	366	8.50	9.03	96.1
10/22/2007	18:45:00	11.6	364	8.51	9.00	95.4

Table 5.50. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/22/2007	19:00:00	11.4	362	8.50	9.09	95.8
10/22/2007	19:15:00	11.1	359	8.50	9.09	95.4
10/22/2007	19:30:00	10.9	356	8.51	9.06	94.6
10/22/2007	19:45:00	10.8	357	8.51	9.05	94.0
10/22/2007	20:00:00	10.6	354	8.50	9.07	93.9
10/22/2007	20:15:00	10.4	354	8.51	9.04	93.2
10/22/2007	20:30:00	10.2	352	8.51	9.08	93.1
10/22/2007	20:45:00	10.0	351	8.51	9.05	92.5
10/22/2007	21:00:00	9.8	352	8.51	9.06	92.2
10/22/2007	21:15:00	9.7	353	8.51	9.14	92.6
10/22/2007	21:30:00	9.5	352	8.51	9.18	92.7
10/22/2007	21:45:00	9.4	350	8.51	9.22	92.8
10/22/2007	22:00:00	9.2	350	8.51	9.23	92.6
10/22/2007	22:15:00	9.1	349	8.51	9.20	92.0
10/22/2007	22:30:00	9.0	349	8.51	9.23	92.0
10/22/2007	22:45:00	8.8	348	8.51	9.21	91.4
10/22/2007	23:00:00	8.7	348	8.51	9.24	91.4
10/22/2007	23:15:00	8.5	346	8.51	9.22	90.9
10/22/2007	23:30:00	8.4	347	8.51	9.19	90.3
10/22/2007	23:45:00	8.2	346	8.51	9.28	90.8
10/23/2007	0:00:00	8.1	344	8.51	9.30	90.7
10/23/2007	0:15:00	7.9	345	8.51	9.35	90.8
10/23/2007	0:30:00	7.8	346	8.51	9.40	91.0
10/23/2007	0:45:00	7.6	344	8.51	9.36	90.3
10/23/2007	1:00:00	7.5	345	8.51	9.41	90.5
10/23/2007	1:15:00	7.4	345	8.51	9.46	90.7
10/23/2007	1:30:00	7.2	344	8.52	9.48	90.6
10/23/2007	1:45:00	7.1	345	8.52	9.50	90.4
10/23/2007	2:00:00	7.0	342	8.52	9.55	90.7
10/23/2007	2:15:00	6.9	344	8.52	9.58	90.7
10/23/2007	2:30:00	6.7	342	8.52	9.51	89.8
10/23/2007	2:45:00	6.6	341	8.52	9.54	89.8
10/23/2007	3:00:00	6.5	342	8.52	9.60	90.1
10/23/2007	3:15:00	6.4	341	8.52	9.65	90.3
10/23/2007	3:30:00	6.3	340	8.52	9.74	90.9
10/23/2007	3:45:00	6.2	340	8.52	9.71	90.4
10/23/2007	4:00:00	6.1	340	8.52	9.76	90.6
10/23/2007	4:15:00	6.0	340	8.52	9.78	90.5
10/23/2007	4:30:00	5.9	339	8.52	9.82	90.7
10/23/2007	4:45:00	5.8	339	8.52	9.89	91.1
10/23/2007	5:00:00	5.7	337	8.52	9.96	91.5
10/23/2007	5:15:00	5.6	339	8.52	9.94	91.1
10/23/2007	5:30:00	5.5	338	8.52	9.94	90.9
10/23/2007	5:45:00	5.4	338	8.53	10.00	91.1
10/23/2007	6:00:00	5.3	337	8.53	10.01	91.0
10/23/2007	6:15:00	5.2	336	8.53	10.09	91.5

Table 5.50. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	6:30:00	5.1	336	8.53	10.06	91.0
10/23/2007	6:45:00	5.0	336	8.53	10.05	90.7
10/23/2007	7:00:00	4.9	336	8.53	10.14	91.3
10/23/2007	7:15:00	4.8	335	8.53	10.16	91.2
10/23/2007	7:30:00	4.7	335	8.52	10.18	91.2
10/23/2007	7:45:00	4.6	333	8.53	10.25	91.7
10/23/2007	8:00:00	4.6	335	8.53	10.27	91.7
10/23/2007	8:15:00	4.6	335	8.53	10.25	91.5
10/23/2007	8:30:00	4.5	333	8.54	10.25	91.5
10/23/2007	8:45:00	4.6	335	8.53	10.25	91.5
10/23/2007	9:00:00	4.6	334	8.54	10.34	92.5
10/23/2007	9:15:00	4.7	333	8.53	10.36	92.9
10/23/2007	9:30:00	4.8	334	8.54	10.39	93.5
10/23/2007	9:45:00	5.0	333	8.54	10.38	93.7
10/23/2007	10:00:00	5.2	637	8.64	10.42	94.8
10/23/2007	10:15:00	5.5	628	8.64	10.40	95.3
10/23/2007	10:30:00	5.8	575	8.63	10.33	95.4
10/23/2007	10:45:00	6.1	512	8.63	10.38	96.5
10/23/2007	11:00:00	6.5	450	8.63	10.29	96.5
10/23/2007	11:15:00	6.8	407	8.62	10.26	97.1
10/23/2007	11:30:00	7.2	380	8.62	10.17	97.2
10/23/2007	11:45:00	7.6	367	8.62	10.15	98.0
10/23/2007	12:00:00	8.1	356	8.62	10.06	98.1
10/23/2007	12:15:00	8.5	349	8.62	10.06	99.2
10/23/2007	12:30:00	8.9	347	8.61	9.86	98.2
10/23/2007	12:45:00	9.4	342	8.61	9.82	98.9
10/23/2007	13:00:00	9.9	339	8.60	9.77	99.4
10/23/2007	13:15:00	10.3	337	8.60	9.69	99.6
10/23/2007	13:30:00	10.8	336	8.60	9.61	99.9
10/23/2007	13:45:00	11.2	332	8.59	9.50	99.7
10/23/2007	14:00:00	11.6	329	8.59	9.42	99.8
10/23/2007	14:15:00	11.9	326	8.58	9.40	100.4
10/23/2007	14:30:00	12.3	324	8.57	9.29	100.0
10/23/2007	14:45:00	12.6	320	8.57	9.17	99.5
10/23/2007	15:00:00	12.9	318	8.57	9.03	98.6
10/23/2007	15:15:00	13.2	316	8.56	8.93	98.1
10/23/2007	15:30:00	13.4	315	8.56	8.90	98.3
10/23/2007	15:45:00	13.6	314	8.55	8.74	97.0
10/23/2007	16:00:00	13.8	313	8.55	8.62	95.9
10/23/2007	16:15:00	13.9	312	8.55	8.62	96.1
10/23/2007	16:30:00	13.9	312	8.55	8.54	95.3
10/23/2007	16:45:00	14.0	312	8.54	8.59	95.9
10/23/2007	17:00:00	13.9	311	8.54	8.47	94.6
10/23/2007	17:15:00	13.9	311	8.54	8.36	93.3
10/23/2007	17:30:00	13.8	311	8.53	8.46	94.2
10/23/2007	17:45:00	13.7	310	8.53	8.37	93.0

Table 5.50. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/23/2007	18:00:00	13.6	310	8.53	8.38	92.9
10/23/2007	18:15:00	13.5	310	8.53	8.41	93.0
10/23/2007	18:30:00	13.3	310	8.53	8.37	92.2
10/23/2007	18:45:00	13.2	309	8.52	8.40	92.3
10/23/2007	19:00:00	13.0	309	8.52	8.36	91.4
10/23/2007	19:15:00	12.8	309	8.52	8.34	90.8
10/23/2007	19:30:00	12.7	308	8.52	8.38	90.9
10/23/2007	19:45:00	12.5	308	8.52	8.40	90.8
10/23/2007	20:00:00	12.3	308	8.52	8.39	90.4
10/23/2007	20:15:00	12.2	308	8.52	8.39	90.1
10/23/2007	20:30:00	12.0	307	8.52	8.34	89.2
10/23/2007	20:45:00	11.8	307	8.52	8.40	89.6
10/23/2007	21:00:00	11.7	307	8.52	8.43	89.5
10/23/2007	21:15:00	11.5	307	8.52	8.45	89.4
10/23/2007	21:30:00	11.4	306	8.52	8.49	89.5
10/23/2007	21:45:00	11.2	306	8.52	8.40	88.2
10/23/2007	22:00:00	11.1	306	8.52	8.45	88.6
10/23/2007	22:15:00	11.0	305	8.52	8.35	87.2
10/23/2007	22:30:00	10.8	305	8.52	8.28	86.2
10/23/2007	22:45:00	10.7	305	8.52	8.39	87.1
10/23/2007	23:00:00	10.5	305	8.52	8.43	87.2
10/23/2007	23:15:00	10.4	305	8.52	8.44	87.0
10/23/2007	23:30:00	10.2	305	8.52	8.44	86.6
10/23/2007	23:45:00	10.1	305	8.51	8.61	88.1
10/24/2007	0:00:00	9.9	304	8.52	8.58	87.4
10/24/2007	0:15:00	9.8	304	8.52	8.56	86.9
10/24/2007	0:30:00	9.6	304	8.52	8.50	86.0
10/24/2007	0:45:00	9.5	304	8.52	8.58	86.6
10/24/2007	1:00:00	9.3	304	8.52	8.67	87.2
10/24/2007	1:15:00	9.2	304	8.52	8.67	86.9
10/24/2007	1:30:00	9.0	304	8.52	8.62	86.1
10/24/2007	1:45:00	8.9	303	8.52	8.73	86.8
10/24/2007	2:00:00	8.8	303	8.52	8.73	86.6
10/24/2007	2:15:00	8.6	303	8.52	8.77	86.7
10/24/2007	2:30:00	8.5	303	8.52	8.71	85.9
10/24/2007	2:45:00	8.4	303	8.52	8.85	87.0
10/24/2007	3:00:00	8.3	303	8.52	8.83	86.6
10/24/2007	3:15:00	8.2	302	8.52	8.80	86.1
10/24/2007	3:30:00	8.0	302	8.53	8.85	86.2
10/24/2007	3:45:00	7.9	302	8.52	8.77	85.3
10/24/2007	4:00:00	7.8	302	8.53	8.84	85.6
10/24/2007	4:15:00	7.7	302	8.53	8.74	84.4
10/24/2007	4:30:00	7.6	301	8.53	8.92	85.9
10/24/2007	4:45:00	7.5	301	8.53	8.86	85.1
10/24/2007	5:00:00	7.3	301	8.53	9.02	86.4
10/24/2007	5:15:00	7.2	301	8.53	8.88	84.9

Table 5.50. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	5:30:00	7.1	301	8.53	9.02	85.9
10/24/2007	5:45:00	7.0	301	8.53	9.24	87.8
10/24/2007	6:00:00	6.9	300	8.53	9.21	87.3
10/24/2007	6:15:00	6.8	300	8.53	9.21	87.1
10/24/2007	6:30:00	6.7	300	8.53	9.17	86.5
10/24/2007	6:45:00	6.6	300	8.53	9.33	87.8
10/24/2007	7:00:00	6.5	300	8.53	9.41	88.3
10/24/2007	7:15:00	6.4	300	8.53	9.42	88.2
10/24/2007	7:30:00	6.3	300	8.53	9.46	88.4
10/24/2007	7:45:00	6.3	299	8.53	9.36	87.3
10/24/2007	8:00:00	6.2	299	8.53	9.47	88.2
10/24/2007	8:15:00	6.2	299	8.53	9.54	88.8
10/24/2007	8:30:00	6.2	299	8.53	9.59	89.2
10/24/2007	8:45:00	6.2	299	8.53	9.47	88.1
10/24/2007	9:00:00	6.2	299	8.53	9.58	89.3
10/24/2007	9:15:00	6.4	299	8.53	9.61	89.9
10/24/2007	9:30:00	6.5	299	8.54	9.48	88.9
10/24/2007	9:45:00	6.7	299	8.53	9.56	90.1
10/24/2007	10:00:00	6.9	299	8.53	9.55	90.5
10/24/2007	10:15:00	7.1	299	8.53	9.62	91.6
10/24/2007	10:30:00	7.4	300	8.53	9.58	91.9
10/24/2007	10:45:00	7.7	300	8.54	9.45	91.5
10/24/2007	11:00:00	8.1	300	8.53	9.52	93.0
10/24/2007	11:15:00	8.5	300	8.53	9.45	93.2
10/24/2007	11:30:00	8.9	301	8.53	9.44	93.9
10/24/2007	11:45:00	9.3	301	8.53	9.36	94.1
10/24/2007	12:00:00	9.8	301	8.53	9.36	95.1
10/24/2007	12:15:00	10.2	301	8.53	9.19	94.3
10/24/2007	12:30:00	10.7	302	8.53	9.12	94.7
10/24/2007	12:45:00	11.2	302	8.52	9.11	95.7
10/24/2007	13:00:00	11.7	303	8.52	9.06	96.2
10/24/2007	13:15:00	12.2	303	8.52	8.93	95.9
10/24/2007	13:30:00	12.7	304	8.52	8.82	95.7
10/24/2007	13:45:00	13.1	304	8.52	8.89	97.5
10/24/2007	14:00:00	13.6	304	8.51	8.78	97.3
10/24/2007	14:15:00	14.0	305	8.52	8.56	95.7
10/24/2007	14:30:00	14.4	305	8.52	8.63	97.4
10/24/2007	14:45:00	14.8	306	8.52	8.43	95.8
10/24/2007	15:00:00	15.1	306	8.52	8.51	97.5
10/24/2007	15:15:00	15.4	306	8.52	8.43	97.2
10/24/2007	15:30:00	15.6	307	8.52	8.26	95.8
10/24/2007	15:45:00	15.9	307	8.51	8.20	95.4
10/24/2007	16:00:00	16.0	307	8.51	8.07	94.2
10/24/2007	16:15:00	16.1	308	8.51	8.03	94.0
10/24/2007	16:30:00	16.2	308	8.51	8.02	94.0
10/24/2007	16:45:00	16.3	308	8.50	7.82	91.8

Table 5.50. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/24/2007	17:00:00	16.3	308	8.51	7.93	93.1
10/24/2007	17:15:00	16.2	308	8.50	7.79	91.3
10/24/2007	17:30:00	16.2	308	8.50	7.85	92.0
10/24/2007	17:45:00	16.0	308	8.50	7.77	90.8
10/24/2007	18:00:00	15.9	308	8.50	7.73	90.1
10/24/2007	18:15:00	15.7	308	8.50	7.65	88.8
10/24/2007	18:30:00	15.6	308	8.50	7.81	90.3
10/24/2007	18:45:00	15.4	308	8.50	7.57	87.2
10/24/2007	19:00:00	15.2	308	8.50	7.50	86.1
10/24/2007	19:15:00	15.0	308	8.50	7.53	86.1
10/24/2007	19:30:00	14.8	308	8.50	7.55	86.0
10/24/2007	19:45:00	14.6	308	8.50	7.66	86.9
10/24/2007	20:00:00	14.5	308	8.50	7.62	86.1
10/24/2007	20:15:00	14.3	308	8.50	7.54	84.9
10/24/2007	20:30:00	14.1	308	8.50	7.71	86.4
10/24/2007	20:45:00	13.9	308	8.50	7.80	87.1
10/24/2007	21:00:00	13.7	308	8.50	7.50	83.4
10/24/2007	21:15:00	13.5	307	8.50	7.49	82.9
10/24/2007	21:30:00	13.4	307	8.50	7.61	84.0
10/24/2007	21:45:00	13.2	307	8.50	7.68	84.3
10/24/2007	22:00:00	13.0	307	8.50	7.79	85.2
10/24/2007	22:15:00	12.8	307	8.50	7.80	85.0
10/24/2007	22:30:00	12.7	306	8.50	7.75	84.1
10/24/2007	22:45:00	12.5	306	8.50	7.69	83.2
10/24/2007	23:00:00	12.4	306	8.50	7.91	85.3
10/24/2007	23:15:00	12.2	306	8.50	7.89	84.7
10/24/2007	23:30:00	12.0	306	8.51	7.80	83.5
10/24/2007	23:45:00	11.9	305	8.51	7.89	84.1
10/25/2007	0:00:00	11.7	305	8.51	7.87	83.6
10/25/2007	0:15:00	11.5	305	8.51	7.91	83.6
10/25/2007	0:30:00	11.3	305	8.51	7.86	82.8
10/25/2007	0:45:00	11.2	305	8.51	7.80	81.9
10/25/2007	1:00:00	11.0	305	8.51	8.12	84.9
10/25/2007	1:15:00	10.8	304	8.51	8.03	83.6
10/25/2007	1:30:00	10.7	304	8.51	8.13	84.4
10/25/2007	1:45:00	10.5	304	8.51	8.08	83.4
10/25/2007	2:00:00	10.3	304	8.51	8.08	83.2
10/25/2007	2:15:00	10.2	304	8.51	8.16	83.7
10/25/2007	2:30:00	10.0	303	8.51	8.08	82.6
10/25/2007	2:45:00	9.8	303	8.51	8.11	82.6
10/25/2007	3:00:00	9.7	303	8.52	8.01	81.2
10/25/2007	3:15:00	9.5	303	8.51	8.27	83.5
10/25/2007	3:30:00	9.4	303	8.51	8.24	82.9
10/25/2007	3:45:00	9.2	302	8.51	8.19	82.1
10/25/2007	4:00:00	9.1	302	8.52	8.17	81.7
10/25/2007	4:15:00	9.0	302	8.51	8.31	82.8

Table 5.50. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	4:30:00	8.8	302	8.51	8.37	83.1
10/25/2007	4:45:00	8.7	302	8.52	8.21	81.2
10/25/2007	5:00:00	8.5	301	8.51	8.35	82.3
10/25/2007	5:15:00	8.4	301	8.52	8.41	82.6
10/25/2007	5:30:00	8.2	301	8.52	8.52	83.4
10/25/2007	5:45:00	8.1	301	8.52	8.63	84.3
10/25/2007	6:00:00	8.0	301	8.52	8.73	85.0
10/25/2007	6:15:00	7.9	301	8.52	8.77	85.0
10/25/2007	6:30:00	7.7	301	8.52	8.62	83.3
10/25/2007	6:45:00	7.6	300	8.53	8.72	84.1
10/25/2007	7:00:00	7.5	300	8.52	8.72	83.9
10/25/2007	7:15:00	7.4	300	8.53	8.73	83.7
10/25/2007	7:30:00	7.2	300	8.53	8.71	83.2
10/25/2007	7:45:00	7.1	300	8.53	8.84	84.2
10/25/2007	8:00:00	7.0	300	8.53	8.94	84.9
10/25/2007	8:15:00	7.0	300	8.53	8.93	84.7
10/25/2007	8:30:00	6.9	300	8.54	8.86	84.1
10/25/2007	8:45:00	6.9	300	8.54	8.99	85.2
10/25/2007	9:00:00	7.0	300	8.53	9.18	87.2
10/25/2007	9:15:00	7.1	300	8.53	9.02	86.0
10/25/2007	9:30:00	7.3	300	8.54	8.97	85.9
10/25/2007	9:45:00	7.5	300	8.54	8.97	86.3
10/25/2007	10:00:00	7.8	301	8.53	8.99	87.0
10/25/2007	10:15:00	8.0	301	8.53	9.02	87.9
10/25/2007	10:30:00	8.3	301	8.54	9.02	88.5
10/25/2007	10:45:00	8.7	301	8.54	8.99	88.9
10/25/2007	11:00:00	9.1	302	8.53	8.92	89.1
10/25/2007	11:15:00	9.5	302	8.53	8.94	90.2
10/25/2007	11:30:00	9.9	303	8.53	8.83	90.0
10/25/2007	11:45:00	10.3	303	8.53	8.75	90.1
10/25/2007	12:00:00	10.8	303	8.53	8.65	89.9
10/25/2007	12:15:00	11.2	304	8.53	8.62	90.6
10/25/2007	12:30:00	11.7	304	8.52	8.55	90.8
10/25/2007	12:45:00	12.2	305	8.52	8.47	90.9
10/25/2007	13:00:00	12.6	305	8.52	8.47	91.9
10/25/2007	13:15:00	13.1	306	8.52	8.28	90.7
10/25/2007	13:30:00	13.6	306	8.51	8.24	91.3
10/25/2007	13:45:00	14.0	307	8.51	8.21	91.9
10/25/2007	14:00:00	14.5	307	8.51	8.02	90.7
10/25/2007	14:15:00	14.9	308	8.51	8.04	91.7
10/25/2007	14:30:00	15.3	308	8.51	7.67	88.3
10/25/2007	14:45:00	15.7	309	8.51	7.56	87.7
10/25/2007	15:00:00	16.0	309	8.50	7.63	89.1
10/25/2007	15:15:00	16.3	310	8.50	7.57	89.0
10/25/2007	15:30:00	16.6	310	8.50	7.56	89.4
10/25/2007	15:45:00	16.8	310	8.49	7.45	88.4

Table 5.50. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/25/2007	16:00:00	16.9	311	8.49	7.30	87.0
10/25/2007	16:15:00	17.1	311	8.49	7.26	86.6
10/25/2007	16:30:00	17.1	311	8.49	7.16	85.7
10/25/2007	16:45:00	17.2	311	8.49	7.17	85.8
10/25/2007	17:00:00	17.1	311	8.49	7.35	87.9
10/25/2007	17:15:00	17.1	311	8.49	7.03	84.0
10/25/2007	17:30:00	17.0	312	8.48	7.20	85.8
10/25/2007	17:45:00	16.9	312	8.48	7.34	87.3
10/25/2007	18:00:00	16.8	312	8.48	7.20	85.5
10/25/2007	18:15:00	16.6	312	8.48	7.28	86.1
10/25/2007	18:30:00	16.4	312	8.49	6.99	82.4
10/25/2007	18:45:00	16.2	312	8.49	7.09	83.2
10/25/2007	19:00:00	16.0	311	8.49	7.22	84.4
10/25/2007	19:15:00	15.8	312	8.48	7.30	84.9
10/25/2007	19:30:00	15.6	311	8.48	7.13	82.5
10/25/2007	19:45:00	15.4	311	8.49	6.87	79.1
10/25/2007	20:00:00	15.2	311	8.49	7.22	82.8
10/25/2007	20:15:00	15.0	311	8.49	7.34	83.8
10/25/2007	20:30:00	14.8	311	8.49	7.24	82.3
10/25/2007	20:45:00	14.5	311	8.49	7.24	81.9
10/25/2007	21:00:00	14.3	311	8.50	7.12	80.2
10/25/2007	21:15:00	14.1	311	8.49	7.40	83.0
10/25/2007	21:30:00	13.9	311	8.50	7.36	82.2
10/25/2007	21:45:00	13.7	310	8.50	7.17	79.6
10/25/2007	22:00:00	13.5	310	8.51	7.15	79.1
10/25/2007	22:15:00	13.3	310	8.50	7.39	81.4
10/25/2007	22:30:00	13.1	310	8.50	7.35	80.6
10/25/2007	22:45:00	12.9	310	8.50	7.39	80.7
10/25/2007	23:00:00	12.7	310	8.50	7.50	81.6
10/25/2007	23:15:00	12.5	310	8.51	7.58	82.1
10/25/2007	23:30:00	12.4	310	8.51	7.58	81.8
10/25/2007	23:45:00	12.2	310	8.51	7.67	82.4
10/26/2007	0:00:00	12.0	310	8.51	7.63	81.6
10/26/2007	0:15:00	11.8	310	8.51	7.55	80.4
10/26/2007	0:30:00	11.6	310	8.51	7.66	81.3
10/26/2007	0:45:00	11.4	310	8.52	7.54	79.6
10/26/2007	1:00:00	11.3	310	8.52	7.36	77.4
10/26/2007	1:15:00	11.1	310	8.52	7.61	79.7
10/26/2007	1:30:00	10.9	309	8.52	7.61	79.4
10/26/2007	1:45:00	10.7	309	8.52	7.88	81.9
10/26/2007	2:00:00	10.6	309	8.52	7.70	79.7
10/26/2007	2:15:00	10.4	309	8.53	7.73	79.7
10/26/2007	2:30:00	10.2	309	8.53	7.75	79.6
10/26/2007	2:45:00	10.1	309	8.53	7.85	80.3
10/26/2007	3:00:00	9.9	309	8.53	7.98	81.3
10/26/2007	3:15:00	9.8	309	8.53	7.93	80.6

Table 5.50. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during October 2007. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

10/26/2007	3:30:00	9.6	309	8.53	8.00	81.0
10/26/2007	3:45:00	9.5	309	8.53	8.09	81.7
10/26/2007	4:00:00	9.4	309	8.53	7.96	80.2
10/26/2007	4:15:00	9.3	309	8.53	8.21	82.4
10/26/2007	4:30:00	9.1	309	8.54	8.10	81.0
10/26/2007	4:45:00	9.0	309	8.53	7.96	79.4
10/26/2007	5:00:00	8.8	309	8.54	8.12	80.6
10/26/2007	5:15:00	8.7	309	8.54	8.33	82.5
10/26/2007	5:30:00	8.6	309	8.54	8.07	79.7
10/26/2007	5:45:00	8.4	309	8.54	8.29	81.5
10/26/2007	6:00:00	8.3	309	8.54	8.30	81.4
10/26/2007	6:15:00	8.2	309	8.55	8.44	82.5
10/26/2007	6:30:00	8.1	309	8.54	8.58	83.6
10/26/2007	6:45:00	7.9	309	8.54	8.45	82.1
10/26/2007	7:00:00	7.8	309	8.54	8.54	82.7
10/26/2007	7:15:00	7.7	309	8.54	8.72	84.2
10/26/2007	7:30:00	7.6	309	8.55	8.52	82.1
10/26/2007	7:45:00	7.5	309	8.55	8.63	82.9
10/26/2007	8:00:00	7.4	308	8.55	8.80	84.3
10/26/2007	8:15:00	7.3	308	8.55	8.77	83.9
10/26/2007	8:30:00	7.3	308	8.55	8.66	82.8
10/26/2007	8:45:00	7.3	308	8.55	8.94	85.4

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Nike**
Log	**File**	**Name**	**:**	**site1_1-26-2008N**
Setup	**Date**	**(MMDDYY)**	**:**	**1/26/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**13:08:31**
Starting	**Date**	**(MMDDYY)**	**:**	**1/26/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**16:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**2/11/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**9:51:38**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
1/26/2008	17:00:00	3.50	12.77	113.1
1/26/2008	17:15:00	3.47	12.76	112.9
1/26/2008	17:30:00	3.43	12.73	112.5
1/26/2008	17:45:00	3.38	12.69	112.0
1/26/2008	18:00:00	3.34	12.65	111.6
1/26/2008	18:15:00	3.30	12.63	111.2
1/26/2008	18:30:00	3.27	12.61	111.0
1/26/2008	18:45:00	3.24	12.59	110.7
1/26/2008	19:00:00	3.22	12.57	110.4
1/26/2008	19:15:00	3.19	12.53	110.0
1/26/2008	19:30:00	3.17	12.48	109.5
1/26/2008	19:45:00	3.13	12.43	109.0
1/26/2008	20:00:00	3.10	12.38	108.4
1/26/2008	20:15:00	3.06	12.33	107.9
1/26/2008	20:30:00	3.03	12.28	107.3
1/26/2008	20:45:00	3.01	12.23	106.9
1/26/2008	21:00:00	2.97	12.18	106.3
1/26/2008	21:15:00	2.94	12.12	105.7
1/26/2008	21:30:00	2.93	12.06	105.2
1/26/2008	21:45:00	2.91	12.01	104.7
1/26/2008	22:00:00	2.89	11.95	104.1
1/26/2008	22:15:00	2.86	11.89	103.5
1/26/2008	22:30:00	2.86	11.82	102.9
1/26/2008	22:45:00	2.84	11.76	102.3
1/26/2008	23:00:00	2.83	11.70	101.7
1/26/2008	23:15:00	2.83	11.64	101.2
1/26/2008	23:30:00	2.82	11.57	100.6
1/26/2008	23:45:00	2.81	11.52	100.1
1/27/2008	0:00:00	2.81	11.46	99.6
1/27/2008	0:15:00	2.80	11.41	99.1
1/27/2008	0:30:00	2.79	11.37	98.8
1/27/2008	0:45:00	2.78	11.32	98.3
1/27/2008	1:00:00	2.79	11.28	98.0
1/27/2008	1:15:00	2.79	11.24	97.6
1/27/2008	1:30:00	2.80	11.20	97.3

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	1:45:00	2.81	11.16	97.0
1/27/2008	2:00:00	2.81	11.12	96.6
1/27/2008	2:15:00	2.81	11.08	96.3
1/27/2008	2:30:00	2.81	11.04	96.0
1/27/2008	2:45:00	2.81	11.00	95.6
1/27/2008	3:00:00	2.81	10.97	95.3
1/27/2008	3:15:00	2.79	10.94	95.0
1/27/2008	3:30:00	2.74	10.90	94.6
1/27/2008	3:45:00	2.71	10.88	94.3
1/27/2008	4:00:00	2.68	10.86	94.0
1/27/2008	4:15:00	2.66	10.84	93.8
1/27/2008	4:30:00	2.63	10.82	93.6
1/27/2008	4:45:00	2.57	10.80	93.3
1/27/2008	5:00:00	2.52	10.78	93.0
1/27/2008	5:15:00	2.47	10.77	92.7
1/27/2008	5:30:00	2.41	10.75	92.5
1/27/2008	5:45:00	2.33	10.74	92.2
1/27/2008	6:00:00	2.26	10.73	91.9
1/27/2008	6:15:00	2.17	10.73	91.6
1/27/2008	6:30:00	2.08	10.72	91.4
1/27/2008	6:45:00	1.98	10.72	91.1
1/27/2008	7:00:00	1.87	10.72	90.8
1/27/2008	7:15:00	1.78	10.73	90.6
1/27/2008	7:30:00	1.67	10.74	90.5
1/27/2008	7:45:00	1.61	10.77	90.6
1/27/2008	8:00:00	1.55	10.81	90.8
1/27/2008	8:15:00	1.49	10.86	91.0
1/27/2008	8:30:00	1.47	10.92	91.5
1/27/2008	8:45:00	1.43	10.99	92.0
1/27/2008	9:00:00	1.37	11.05	92.3
1/27/2008	9:15:00	1.32	11.10	92.7
1/27/2008	9:30:00	1.32	11.18	93.3
1/27/2008	9:45:00	1.34	11.26	94.0
1/27/2008	10:00:00	1.36	11.33	94.7
1/27/2008	10:15:00	1.42	11.41	95.5
1/27/2008	10:30:00	1.49	11.51	96.5
1/27/2008	10:45:00	1.56	11.59	97.3
1/27/2008	11:00:00	1.57	11.66	98.0
1/27/2008	11:15:00	1.58	11.74	98.7
1/27/2008	11:30:00	1.65	11.81	99.5
1/27/2008	11:45:00	1.72	11.88	100.3
1/27/2008	12:00:00	1.81	11.95	101.1
1/27/2008	12:15:00	1.86	12.01	101.7
1/27/2008	12:30:00	1.91	12.07	102.3
1/27/2008	12:45:00	1.95	12.13	103.0
1/27/2008	13:00:00	2.01	12.19	103.7

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	13:15:00	2.08	12.25	104.4
1/27/2008	13:30:00	2.19	12.31	105.2
1/27/2008	13:45:00	2.25	12.36	105.8
1/27/2008	14:00:00	2.29	12.42	106.4
1/27/2008	14:15:00	2.38	12.48	107.2
1/27/2008	14:30:00	2.44	12.55	107.9
1/27/2008	14:45:00	2.49	12.60	108.6
1/27/2008	15:00:00	2.55	12.64	109.1
1/27/2008	15:15:00	2.59	12.67	109.5
1/27/2008	15:30:00	2.63	12.69	109.8
1/27/2008	15:45:00	2.63	12.70	109.8
1/27/2008	16:00:00	2.65	12.71	110.0
1/27/2008	16:15:00	2.66	12.72	110.1
1/27/2008	16:30:00	2.67	12.71	110.1
1/27/2008	16:45:00	2.67	12.70	109.9
1/27/2008	17:00:00	2.66	12.67	109.7
1/27/2008	17:15:00	2.66	12.63	109.4
1/27/2008	17:30:00	2.66	12.59	108.9
1/27/2008	17:45:00	2.67	12.53	108.5
1/27/2008	18:00:00	2.66	12.47	107.9
1/27/2008	18:15:00	2.66	12.42	107.5
1/27/2008	18:30:00	2.68	12.38	107.2
1/27/2008	18:45:00	2.71	12.34	106.9
1/27/2008	19:00:00	2.72	12.30	106.6
1/27/2008	19:15:00	2.75	12.26	106.4
1/27/2008	19:30:00	2.77	12.22	106.1
1/27/2008	19:45:00	2.79	12.19	105.8
1/27/2008	20:00:00	2.81	12.15	105.6
1/27/2008	20:15:00	2.83	12.10	105.2
1/27/2008	20:30:00	2.87	12.05	104.9
1/27/2008	20:45:00	2.90	12.00	104.5
1/27/2008	21:00:00	2.92	11.94	104.1
1/27/2008	21:15:00	2.96	11.88	103.6
1/27/2008	21:30:00	2.98	11.81	103.1
1/27/2008	21:45:00	3.00	11.73	102.5
1/27/2008	22:00:00	3.03	11.67	102.0
1/27/2008	22:15:00	3.05	11.60	101.5
1/27/2008	22:30:00	3.07	11.54	101.0
1/27/2008	22:45:00	3.11	11.49	100.6
1/27/2008	23:00:00	3.13	11.43	100.2
1/27/2008	23:15:00	3.18	11.38	99.9
1/27/2008	23:30:00	3.22	11.33	99.6
1/27/2008	23:45:00	3.26	11.29	99.3
1/28/2008	0:00:00	3.31	11.25	99.1
1/28/2008	0:15:00	3.37	11.20	98.8
1/28/2008	0:30:00	3.41	11.15	98.5

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	0:45:00	3.47	11.11	98.3
1/28/2008	1:00:00	3.52	11.06	98.0
1/28/2008	1:15:00	3.58	11.01	97.7
1/28/2008	1:30:00	3.63	10.96	97.4
1/28/2008	1:45:00	3.68	10.92	97.1
1/28/2008	2:00:00	3.72	10.87	96.8
1/28/2008	2:15:00	3.76	10.83	96.5
1/28/2008	2:30:00	3.79	10.79	96.3
1/28/2008	2:45:00	3.82	10.75	96.0
1/28/2008	3:00:00	3.84	10.72	95.8
1/28/2008	3:15:00	3.86	10.68	95.5
1/28/2008	3:30:00	3.88	10.65	95.2
1/28/2008	3:45:00	3.91	10.61	95.0
1/28/2008	4:00:00	3.92	10.58	94.7
1/28/2008	4:15:00	3.92	10.55	94.5
1/28/2008	4:30:00	3.94	10.52	94.2
1/28/2008	4:45:00	3.94	10.49	93.9
1/28/2008	5:00:00	3.94	10.46	93.7
1/28/2008	5:15:00	3.93	10.43	93.4
1/28/2008	5:30:00	3.91	10.40	93.1
1/28/2008	5:45:00	3.88	10.38	92.9
1/28/2008	6:00:00	3.86	10.37	92.6
1/28/2008	6:15:00	3.82	10.35	92.4
1/28/2008	6:30:00	3.79	10.34	92.2
1/28/2008	6:45:00	3.73	10.33	92.0
1/28/2008	7:00:00	3.68	10.32	91.8
1/28/2008	7:15:00	3.64	10.31	91.6
1/28/2008	7:30:00	3.58	10.32	91.5
1/28/2008	7:45:00	3.54	10.33	91.5
1/28/2008	8:00:00	3.49	10.34	91.5
1/28/2008	8:15:00	3.43	10.35	91.5
1/28/2008	8:30:00	3.40	10.38	91.7
1/28/2008	8:45:00	3.39	10.42	92.0
1/28/2008	9:00:00	3.41	10.47	92.5
1/28/2008	9:15:00	3.46	10.53	93.1
1/28/2008	9:30:00	3.52	10.59	93.8
1/28/2008	9:45:00	3.60	10.64	94.5
1/28/2008	10:00:00	3.68	10.70	95.2
1/28/2008	10:15:00	3.80	10.76	96.0
1/28/2008	10:30:00	3.88	10.80	96.6
1/28/2008	10:45:00	3.99	10.86	97.4
1/28/2008	11:00:00	4.12	10.92	98.3
1/28/2008	11:15:00	4.28	10.98	99.2
1/28/2008	11:30:00	4.48	11.05	100.4
1/28/2008	11:45:00	4.67	11.12	101.5
1/28/2008	12:00:00	4.83	11.17	102.4

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	12:15:00	4.92	11.21	103.1
1/28/2008	12:30:00	5.06	11.26	103.9
1/28/2008	12:45:00	5.13	11.33	104.7
1/28/2008	13:00:00	5.18	11.37	105.2
1/28/2008	13:15:00	5.26	11.40	105.7
1/28/2008	13:30:00	5.34	11.42	106.1
1/28/2008	13:45:00	5.45	11.45	106.7
1/28/2008	14:00:00	5.55	11.49	107.4
1/28/2008	14:15:00	5.68	11.53	108.1
1/28/2008	14:30:00	5.75	11.56	108.6
1/28/2008	14:45:00	5.85	11.60	109.2
1/28/2008	15:00:00	5.97	11.66	110.1
1/28/2008	15:15:00	6.07	11.69	110.7
1/28/2008	15:30:00	6.08	11.73	111.1
1/28/2008	15:45:00	6.11	11.78	111.6
1/28/2008	16:00:00	6.06	11.78	111.5
1/28/2008	16:15:00	5.97	11.79	111.3
1/28/2008	16:30:00	5.88	11.77	110.9
1/28/2008	16:45:00	5.78	11.75	110.4
1/28/2008	17:00:00	5.70	11.72	109.9
1/28/2008	17:15:00	5.62	11.71	109.6
1/28/2008	17:30:00	5.54	11.69	109.2
1/28/2008	17:45:00	5.48	11.69	109.0
1/28/2008	18:00:00	5.41	11.69	108.8
1/28/2008	18:15:00	5.33	11.68	108.5
1/28/2008	18:30:00	5.26	11.69	108.3
1/28/2008	18:45:00	5.16	11.68	108.0
1/28/2008	19:00:00	5.07	11.68	107.8
1/28/2008	19:15:00	4.98	11.65	107.2
1/28/2008	19:30:00	4.87	11.59	106.4
1/28/2008	19:45:00	4.78	11.53	105.6
1/28/2008	20:00:00	4.68	11.47	104.8
1/28/2008	20:15:00	4.58	11.41	103.9
1/28/2008	20:30:00	4.49	11.35	103.2
1/28/2008	20:45:00	4.41	11.32	102.6
1/28/2008	21:00:00	4.33	11.28	102.1
1/28/2008	21:15:00	4.26	11.25	101.6
1/28/2008	21:30:00	4.17	11.22	101.1
1/28/2008	21:45:00	4.09	11.20	100.7
1/28/2008	22:00:00	4.03	11.18	100.4
1/28/2008	22:15:00	3.96	11.14	99.8
1/28/2008	22:30:00	3.91	11.11	99.4
1/28/2008	22:45:00	3.84	11.05	98.7
1/28/2008	23:00:00	3.79	11.00	98.1
1/28/2008	23:15:00	3.54	10.91	96.7
1/28/2008	23:30:00	3.29	10.85	95.5

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	23:45:00	3.15	10.82	94.9
1/29/2008	0:00:00	3.10	10.81	94.7
1/29/2008	0:15:00	2.98	10.78	94.2
1/29/2008	0:30:00	2.85	10.77	93.7
1/29/2008	0:45:00	2.80	10.77	93.6
1/29/2008	1:00:00	2.74	10.76	93.4
1/29/2008	1:15:00	2.72	10.76	93.3
1/29/2008	1:30:00	2.72	10.76	93.3
1/29/2008	1:45:00	2.70	10.75	93.2
1/29/2008	2:00:00	2.65	10.74	92.9
1/29/2008	2:15:00	2.58	10.72	92.6
1/29/2008	2:30:00	2.51	10.71	92.3
1/29/2008	2:45:00	2.49	10.70	92.2
1/29/2008	3:00:00	2.43	10.70	92.0
1/29/2008	3:15:00	2.36	10.69	91.8
1/29/2008	3:30:00	2.31	10.69	91.7
1/29/2008	3:45:00	2.27	10.69	91.6
1/29/2008	4:00:00	2.19	10.69	91.3
1/29/2008	4:15:00	2.13	10.69	91.2
1/29/2008	4:30:00	2.06	10.68	91.0
1/29/2008	4:45:00	2.00	10.68	90.8
1/29/2008	5:00:00	1.93	10.68	90.6
1/29/2008	5:15:00	1.86	10.68	90.4
1/29/2008	5:30:00	1.79	10.68	90.3
1/29/2008	5:45:00	1.69	10.69	90.1
1/29/2008	6:00:00	1.60	10.69	89.9
1/29/2008	6:15:00	1.54	10.69	89.8
1/29/2008	6:30:00	1.47	10.70	89.6
1/29/2008	6:45:00	1.37	10.71	89.5
1/29/2008	7:00:00	1.27	10.72	89.3
1/29/2008	7:15:00	1.16	10.74	89.2
1/29/2008	7:30:00	1.06	10.77	89.2
1/29/2008	7:45:00	0.93	10.80	89.2
1/29/2008	8:00:00	0.82	10.85	89.3
1/29/2008	8:15:00	0.76	10.92	89.7
1/29/2008	8:30:00	0.73	10.99	90.2
1/29/2008	8:45:00	0.72	11.06	90.7
1/29/2008	9:00:00	0.65	11.12	91.1
1/29/2008	9:15:00	0.66	11.19	91.7
1/29/2008	9:30:00	0.78	11.31	92.9
1/29/2008	9:45:00	0.81	11.39	93.7
1/29/2008	10:00:00	0.84	11.45	94.3
1/29/2008	10:15:00	0.91	11.55	95.2
1/29/2008	10:30:00	1.02	11.65	96.4
1/29/2008	10:45:00	1.15	11.74	97.5
1/29/2008	11:00:00	1.28	11.82	98.6

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	11:15:00	1.41	11.91	99.6
1/29/2008	11:30:00	1.50	12.00	100.6
1/29/2008	11:45:00	1.61	12.09	101.7
1/29/2008	12:00:00	1.73	12.16	102.6
1/29/2008	12:15:00	1.87	12.24	103.7
1/29/2008	12:30:00	2.00	12.31	104.7
1/29/2008	12:45:00	2.16	12.38	105.7
1/29/2008	13:00:00	2.26	12.45	106.6
1/29/2008	13:15:00	2.38	12.52	107.6
1/29/2008	13:30:00	2.48	12.59	108.5
1/29/2008	13:45:00	2.58	12.67	109.4
1/29/2008	14:00:00	2.66	12.75	110.3
1/29/2008	14:15:00	2.74	12.83	111.3
1/29/2008	14:30:00	2.78	12.89	111.9
1/29/2008	14:45:00	2.82	12.97	112.8
1/29/2008	15:00:00	2.86	13.03	113.4
1/29/2008	15:15:00	2.88	13.10	114.1
1/29/2008	15:30:00	2.88	13.16	114.6
1/29/2008	15:45:00	2.88	13.20	115.0
1/29/2008	16:00:00	2.87	13.25	115.3
1/29/2008	16:15:00	2.83	13.28	115.4
1/29/2008	16:30:00	2.77	13.30	115.4
1/29/2008	16:45:00	2.73	13.30	115.4
1/29/2008	17:00:00	2.68	13.28	115.0
1/29/2008	17:15:00	2.63	13.23	114.4
1/29/2008	17:30:00	2.57	13.20	114.0
1/29/2008	17:45:00	2.51	13.18	113.6
1/29/2008	18:00:00	2.48	13.13	113.1
1/29/2008	18:15:00	2.44	13.09	112.6
1/29/2008	18:30:00	2.40	13.06	112.2
1/29/2008	18:45:00	2.34	13.02	111.7
1/29/2008	19:00:00	2.31	12.98	111.3
1/29/2008	19:15:00	2.28	12.94	110.9
1/29/2008	19:30:00	2.22	12.87	110.1
1/29/2008	19:45:00	2.18	12.81	109.5
1/29/2008	20:00:00	2.14	12.77	109.0
1/29/2008	20:15:00	2.12	12.73	108.6
1/29/2008	20:30:00	2.12	12.68	108.2
1/29/2008	20:45:00	2.10	12.63	107.7
1/29/2008	21:00:00	2.07	12.57	107.1
1/29/2008	21:15:00	2.06	12.51	106.5
1/29/2008	21:30:00	2.03	12.45	105.9
1/29/2008	21:45:00	2.02	12.39	105.4
1/29/2008	22:00:00	2.02	12.32	104.8
1/29/2008	22:15:00	2.02	12.26	104.3
1/29/2008	22:30:00	2.01	12.19	103.7

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	22:45:00	1.99	12.11	103.0
1/29/2008	23:00:00	1.98	12.04	102.3
1/29/2008	23:15:00	1.97	11.97	101.7
1/29/2008	23:30:00	1.97	11.90	101.1
1/29/2008	23:45:00	1.94	11.84	100.5
1/30/2008	0:00:00	1.97	11.78	100.1
1/30/2008	0:15:00	1.98	11.73	99.7
1/30/2008	0:30:00	2.00	11.68	99.3
1/30/2008	0:45:00	2.02	11.63	99.0
1/30/2008	1:00:00	2.02	11.59	98.6
1/30/2008	1:15:00	2.02	11.54	98.1
1/30/2008	1:30:00	2.02	11.49	97.8
1/30/2008	1:45:00	2.03	11.45	97.4
1/30/2008	2:00:00	2.02	11.41	97.0
1/30/2008	2:15:00	2.00	11.37	96.6
1/30/2008	2:30:00	1.98	11.33	96.3
1/30/2008	2:45:00	1.97	11.30	96.0
1/30/2008	3:00:00	1.94	11.27	95.7
1/30/2008	3:15:00	1.92	11.25	95.4
1/30/2008	3:30:00	1.86	11.22	95.0
1/30/2008	3:45:00	1.81	11.20	94.7
1/30/2008	4:00:00	1.73	11.17	94.3
1/30/2008	4:15:00	1.67	11.15	93.9
1/30/2008	4:30:00	1.59	11.12	93.5
1/30/2008	4:45:00	1.53	11.10	93.2
1/30/2008	5:00:00	1.45	11.08	92.8
1/30/2008	5:15:00	1.38	11.06	92.5
1/30/2008	5:30:00	1.31	11.04	92.1
1/30/2008	5:45:00	1.22	11.03	91.8
1/30/2008	6:00:00	1.13	11.02	91.4
1/30/2008	6:15:00	1.06	11.01	91.2
1/30/2008	6:30:00	0.97	11.01	91.0
1/30/2008	6:45:00	0.91	11.00	90.8
1/30/2008	7:00:00	0.84	11.00	90.6
1/30/2008	7:15:00	0.79	11.01	90.5
1/30/2008	7:30:00	0.74	11.02	90.5
1/30/2008	7:45:00	0.71	11.03	90.5
1/30/2008	8:00:00	0.66	11.04	90.4
1/30/2008	8:15:00	0.62	11.05	90.4
1/30/2008	8:30:00	0.57	11.08	90.6
1/30/2008	8:45:00	0.54	11.12	90.8
1/30/2008	9:00:00	0.53	11.15	91.0
1/30/2008	9:15:00	0.53	11.18	91.3
1/30/2008	9:30:00	0.57	11.23	91.8
1/30/2008	9:45:00	0.63	11.29	92.4
1/30/2008	10:00:00	0.67	11.35	93.0

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	10:15:00	0.71	11.40	93.5
1/30/2008	10:30:00	0.77	11.46	94.2
1/30/2008	10:45:00	0.83	11.51	94.7
1/30/2008	11:00:00	0.88	11.56	95.3
1/30/2008	11:15:00	0.93	11.61	95.8
1/30/2008	11:30:00	0.98	11.65	96.3
1/30/2008	11:45:00	0.97	11.67	96.4
1/30/2008	12:00:00	1.01	11.68	96.6
1/30/2008	12:15:00	1.07	11.73	97.2
1/30/2008	12:30:00	1.18	11.79	98.0
1/30/2008	12:45:00	1.23	11.86	98.7
1/30/2008	13:00:00	1.27	11.91	99.2
1/30/2008	13:15:00	1.32	11.97	99.9
1/30/2008	13:30:00	1.39	12.03	100.6
1/30/2008	13:45:00	1.47	12.08	101.2
1/30/2008	14:00:00	1.57	12.14	102.0
1/30/2008	14:15:00	1.76	12.20	103.1
1/30/2008	14:30:00	1.77	12.28	103.7
1/30/2008	14:45:00	1.83	12.34	104.4
1/30/2008	15:00:00	1.91	12.42	105.3
1/30/2008	15:15:00	1.97	12.49	106.1
1/30/2008	15:30:00	2.07	12.52	106.7
1/30/2008	15:45:00	2.09	12.55	107.0
1/30/2008	16:00:00	2.09	12.58	107.3
1/30/2008	16:15:00	2.08	12.60	107.3
1/30/2008	16:30:00	2.08	12.61	107.4
1/30/2008	16:45:00	2.09	12.62	107.5
1/30/2008	17:00:00	2.07	12.61	107.4
1/30/2008	17:15:00	2.04	12.58	107.1
1/30/2008	17:30:00	2.02	12.55	106.8
1/30/2008	17:45:00	1.98	12.53	106.5
1/30/2008	18:00:00	1.94	12.51	106.2
1/30/2008	18:15:00	1.89	12.46	105.6
1/30/2008	18:30:00	1.82	12.40	104.9
1/30/2008	18:45:00	1.77	12.35	104.3
1/30/2008	19:00:00	1.77	12.33	104.2
1/30/2008	19:15:00	1.77	12.32	104.1
1/30/2008	19:30:00	1.78	12.30	104.0
1/30/2008	19:45:00	1.79	12.28	103.8
1/30/2008	20:00:00	1.78	12.25	103.5
1/30/2008	20:15:00	1.80	12.21	103.3
1/30/2008	20:30:00	1.80	12.19	103.0
1/30/2008	20:45:00	1.83	12.16	102.9
1/30/2008	21:00:00	1.82	12.12	102.6
1/30/2008	21:15:00	1.83	12.09	102.3
1/30/2008	21:30:00	1.83	12.05	102.0

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	21:45:00	1.84	12.01	101.7
1/30/2008	22:00:00	1.86	11.97	101.4
1/30/2008	22:15:00	1.84	11.92	100.9
1/30/2008	22:30:00	1.82	11.86	100.4
1/30/2008	22:45:00	1.80	11.81	99.8
1/30/2008	23:00:00	1.78	11.76	99.4
1/30/2008	23:15:00	1.72	11.71	98.8
1/30/2008	23:30:00	1.68	11.67	98.4
1/30/2008	23:45:00	1.63	11.63	97.9
1/31/2008	0:00:00	1.58	11.60	97.5
1/31/2008	0:15:00	1.54	11.56	97.0
1/31/2008	0:30:00	1.51	11.53	96.7
1/31/2008	0:45:00	1.47	11.49	96.3
1/31/2008	1:00:00	1.46	11.47	96.1
1/31/2008	1:15:00	1.46	11.45	95.9
1/31/2008	1:30:00	1.46	11.42	95.7
1/31/2008	1:45:00	1.44	11.40	95.5
1/31/2008	2:00:00	1.43	11.38	95.3
1/31/2008	2:15:00	1.42	11.36	95.1
1/31/2008	2:30:00	1.41	11.34	94.9
1/31/2008	2:45:00	1.40	11.32	94.7
1/31/2008	3:00:00	1.38	11.30	94.5
1/31/2008	3:15:00	1.34	11.29	94.3
1/31/2008	3:30:00	1.30	11.28	94.1
1/31/2008	3:45:00	1.26	11.27	93.9
1/31/2008	4:00:00	1.22	11.26	93.7
1/31/2008	4:15:00	1.18	11.25	93.5
1/31/2008	4:30:00	1.13	11.24	93.3
1/31/2008	4:45:00	1.07	11.24	93.1
1/31/2008	5:00:00	1.00	11.24	92.9
1/31/2008	5:15:00	0.92	11.23	92.7
1/31/2008	5:30:00	0.83	11.23	92.5
1/31/2008	5:45:00	0.76	11.23	92.2
1/31/2008	6:00:00	0.68	11.23	92.1
1/31/2008	6:15:00	0.61	11.23	91.9
1/31/2008	6:30:00	0.53	11.23	91.7
1/31/2008	6:45:00	0.44	11.24	91.5
1/31/2008	7:00:00	0.36	11.24	91.3
1/31/2008	7:15:00	0.27	11.26	91.2
1/31/2008	7:30:00	0.18	11.28	91.1
1/31/2008	7:45:00	0.09	11.31	91.2
1/31/2008	8:00:00	0.01	11.35	91.3
1/31/2008	8:15:00	-0.04	11.40	91.6
1/31/2008	8:30:00	-0.07	11.46	92.0
1/31/2008	8:45:00	-0.08	11.54	92.5
1/31/2008	9:00:00	-0.06	11.62	93.3

Table 5.51. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2008	9:15:00	-0.01	11.70	94.1
1/31/2008	9:30:00	0.04	11.78	94.8
1/31/2008	9:45:00	0.08	11.85	95.5
1/31/2008	10:00:00	0.13	11.93	96.3
1/31/2008	10:15:00	0.22	12.01	97.2
1/31/2008	10:30:00	0.29	12.08	98.0
1/31/2008	10:45:00	0.41	12.15	98.8
1/31/2008	11:00:00	0.53	12.22	99.7
1/31/2008	11:15:00	0.67	12.29	100.7
1/31/2008	11:30:00	0.79	12.37	101.7

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40183**	**Name**	**:**	**Marge**
Log	**File**	**Name**	**:**	**Part of S5-1-22-08**
Setup	**Date**	**(MMDDYY)**	**:**	**1/22/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**152847**
Starting	**Date**	**(MMDDYY)**	**:**	**1/22/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**152847**
Stopping	**Date**	**(MMDDYY)**	**:**	**1/31/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
1/26/2008	16:58:47	3.4	286	8.87	11.52	101.8
1/26/2008	17:13:47	3.4	285	8.89	11.41	100.8
1/26/2008	17:28:47	3.3	284	8.91	11.37	100.2
1/26/2008	17:43:47	3.3	285	8.93	11.36	100.1
1/26/2008	17:58:47	3.3	285	8.95	11.32	99.6
1/26/2008	18:13:47	3.2	286	8.97	11.38	100.0
1/26/2008	18:28:47	3.2	285	8.99	11.31	99.3
1/26/2008	18:43:47	3.2	286	9.01	11.30	99.2
1/26/2008	18:58:47	3.1	286	9.02	11.29	99.0
1/26/2008	19:13:47	3.1	287	9.04	11.23	98.4
1/26/2008	19:28:47	3.1	289	9.05	11.15	97.6
1/26/2008	19:43:47	3.0	290	9.06	11.16	97.6
1/26/2008	19:58:47	3.0	292	9.07	11.14	97.3
1/26/2008	20:13:47	3.0	292	9.07	11.12	97.0
1/26/2008	20:28:47	2.9	293	9.08	11.01	96.0
1/26/2008	20:43:47	2.9	293	9.09	11.02	96.1
1/26/2008	20:58:47	2.9	292	9.10	10.91	95.1
1/26/2008	21:13:47	2.9	291	9.10	10.81	94.1
1/26/2008	21:28:47	2.8	290	9.10	10.84	94.3
1/26/2008	21:43:47	2.8	289	9.11	10.84	94.2
1/26/2008	21:58:47	2.8	289	9.11	10.75	93.4
1/26/2008	22:13:47	2.8	288	9.11	10.66	92.6
1/26/2008	22:28:47	2.8	289	9.11	10.65	92.5
1/26/2008	22:43:47	2.8	290	9.12	10.54	91.4
1/26/2008	22:58:47	2.7	291	9.11	10.55	91.6
1/26/2008	23:13:47	2.7	291	9.12	10.47	90.9
1/26/2008	23:28:47	2.7	290	9.12	10.45	90.6
1/26/2008	23:43:47	2.7	292	9.12	10.41	90.3
1/26/2008	23:58:47	2.7	292	9.13	10.34	89.7
1/27/2008	0:13:47	2.7	293	9.13	10.28	89.1
1/27/2008	0:28:47	2.7	294	9.14	10.28	89.1
1/27/2008	0:43:47	2.7	293	9.15	10.18	88.3

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	0:58:47	2.7	290	9.16	10.15	88.0
1/27/2008	1:13:47	2.7	288	9.17	10.19	88.4
1/27/2008	1:28:47	2.7	287	9.17	10.08	87.4
1/27/2008	1:43:47	2.7	286	9.18	10.07	87.3
1/27/2008	1:58:47	2.7	285	9.18	10.03	87.0
1/27/2008	2:13:47	2.7	283	9.19	9.95	86.3
1/27/2008	2:28:47	2.7	282	9.18	10.01	86.9
1/27/2008	2:43:47	2.7	282	9.19	9.92	86.1
1/27/2008	2:58:47	2.7	279	9.19	9.94	86.2
1/27/2008	3:13:47	2.7	280	9.19	9.92	86.0
1/27/2008	3:28:47	2.7	280	9.19	9.85	85.3
1/27/2008	3:43:47	2.6	279	9.18	9.83	85.0
1/27/2008	3:58:47	2.6	280	9.17	9.86	85.2
1/27/2008	4:13:47	2.6	279	9.16	9.84	85.0
1/27/2008	4:28:47	2.5	278	9.15	9.81	84.7
1/27/2008	4:43:47	2.5	277	9.13	9.77	84.2
1/27/2008	4:58:47	2.4	276	9.11	9.79	84.2
1/27/2008	5:13:47	2.4	275	9.09	9.78	84.1
1/27/2008	5:28:47	2.3	275	9.06	9.74	83.6
1/27/2008	5:43:47	2.3	275	9.03	9.73	83.3
1/27/2008	5:58:47	2.2	274	8.99	9.74	83.2
1/27/2008	6:13:47	2.1	274	8.96	9.79	83.4
1/27/2008	6:28:47	2.0	273	8.91	9.82	83.4
1/27/2008	6:43:47	1.9	273	8.87	9.76	82.7
1/27/2008	6:58:47	1.8	273	8.82	9.81	82.9
1/27/2008	7:13:47	1.7	272	8.76	9.79	82.5
1/27/2008	7:28:47	1.6	274	8.72	9.81	82.4
1/27/2008	7:43:47	1.5	272	8.67	9.77	81.9
1/27/2008	7:58:47	1.5	271	8.62	9.85	82.5
1/27/2008	8:13:47	1.4	271	8.58	9.88	82.6
1/27/2008	8:28:47	1.4	268	8.54	9.95	83.2
1/27/2008	8:43:47	1.4	266	8.51	10.01	83.6
1/27/2008	8:58:47	1.3	267	8.48	10.04	83.7
1/27/2008	9:13:47	1.2	267	8.46	10.08	84.0
1/27/2008	9:28:47	1.2	267	8.44	10.18	84.7
1/27/2008	9:43:47	1.2	267	8.42	10.25	85.3
1/27/2008	9:58:47	1.3	269	8.41	10.31	85.9
1/27/2008	10:13:47	1.3	267	8.41	10.49	87.5
1/27/2008	10:28:47	1.4	267	8.41	10.45	87.4
1/27/2008	10:43:47	1.5	266	8.41	10.55	88.4
1/27/2008	10:58:47	1.5	268	8.42	10.64	89.2
1/27/2008	11:13:47	1.5	268	8.42	10.74	90.1
1/27/2008	11:28:47	1.6	267	8.43	10.83	91.0
1/27/2008	11:43:47	1.6	266	8.44	10.82	91.1
1/27/2008	11:58:47	1.7	264	8.45	10.89	91.9
1/27/2008	12:13:47	1.8	261	8.45	10.95	92.5

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	12:28:47	1.8	259	8.47	10.93	92.4
1/27/2008	12:43:47	1.9	258	8.48	11.03	93.4
1/27/2008	12:58:47	1.9	258	8.50	11.03	93.6
1/27/2008	13:13:47	2.0	260	8.52	11.13	94.6
1/27/2008	13:28:47	2.1	263	8.54	11.12	94.8
1/27/2008	13:43:47	2.2	266	8.56	11.23	95.9
1/27/2008	13:58:47	2.2	268	8.58	11.30	96.6
1/27/2008	14:13:47	2.3	270	8.61	11.28	96.6
1/27/2008	14:28:47	2.4	270	8.63	11.33	97.2
1/27/2008	14:43:47	2.4	271	8.66	11.37	97.7
1/27/2008	14:58:47	2.5	273	8.69	11.37	97.9
1/27/2008	15:13:47	2.5	275	8.71	11.40	98.3
1/27/2008	15:28:47	2.5	278	8.74	11.46	98.9
1/27/2008	15:43:47	2.5	279	8.75	11.44	98.8
1/27/2008	15:58:47	2.6	279	8.78	11.39	98.4
1/27/2008	16:13:47	2.6	278	8.80	11.31	97.7
1/27/2008	16:28:47	2.6	276	8.82	11.35	98.1
1/27/2008	16:43:47	2.6	276	8.84	11.41	98.6
1/27/2008	16:58:47	2.6	276	8.84	11.34	98.0
1/27/2008	17:13:47	2.6	276	8.86	11.43	98.7
1/27/2008	17:28:47	2.6	276	8.87	11.34	98.0
1/27/2008	17:43:47	2.6	277	8.88	11.20	96.8
1/27/2008	17:58:47	2.6	282	8.89	11.26	97.2
1/27/2008	18:13:47	2.6	286	8.89	11.16	96.4
1/27/2008	18:28:47	2.6	284	8.89	11.15	96.4
1/27/2008	18:43:47	2.6	284	8.91	11.10	96.0
1/27/2008	18:58:47	2.6	284	8.91	11.03	95.4
1/27/2008	19:13:47	2.7	287	8.92	11.10	96.1
1/27/2008	19:28:47	2.7	287	8.93	11.02	95.5
1/27/2008	19:43:47	2.7	287	8.93	11.01	95.4
1/27/2008	19:58:47	2.7	287	8.94	10.98	95.2
1/27/2008	20:13:47	2.8	286	8.95	10.84	94.1
1/27/2008	20:28:47	2.8	286	8.95	10.83	94.1
1/27/2008	20:43:47	2.8	285	8.95	10.82	94.0
1/27/2008	20:58:47	2.8	286	8.95	10.76	93.6
1/27/2008	21:13:47	2.9	287	8.95	10.72	93.3
1/27/2008	21:28:47	2.9	290	8.94	10.70	93.2
1/27/2008	21:43:47	2.9	292	8.94	10.59	92.3
1/27/2008	21:58:47	2.9	292	8.94	10.57	92.2
1/27/2008	22:13:47	3.0	293	8.93	10.50	91.6
1/27/2008	22:28:47	3.0	292	8.93	10.45	91.2
1/27/2008	22:43:47	3.0	293	8.93	10.39	90.8
1/27/2008	22:58:47	3.0	293	8.93	10.36	90.6
1/27/2008	23:13:47	3.1	293	8.94	10.26	89.8
1/27/2008	23:28:47	3.1	292	8.95	10.16	89.1
1/27/2008	23:43:47	3.2	289	8.96	10.19	89.4

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	23:58:47	3.2	289	8.97	10.15	89.2
1/28/2008	0:13:47	3.3	287	8.98	10.13	89.1
1/28/2008	0:28:47	3.3	286	8.99	10.06	88.7
1/28/2008	0:43:47	3.4	285	9.00	10.00	88.2
1/28/2008	0:58:47	3.4	282	9.01	9.97	88.1
1/28/2008	1:13:47	3.5	281	9.02	9.92	87.8
1/28/2008	1:28:47	3.5	282	9.03	9.92	87.9
1/28/2008	1:43:47	3.6	282	9.03	9.90	87.9
1/28/2008	1:58:47	3.6	280	9.03	9.76	86.7
1/28/2008	2:13:47	3.7	279	9.03	9.82	87.4
1/28/2008	2:28:47	3.7	280	9.03	9.75	86.8
1/28/2008	2:43:47	3.7	277	9.03	9.74	86.8
1/28/2008	2:58:47	3.8	278	9.02	9.68	86.3
1/28/2008	3:13:47	3.8	277	9.02	9.66	86.1
1/28/2008	3:28:47	3.8	279	9.01	9.66	86.2
1/28/2008	3:43:47	3.8	279	9.00	9.54	85.2
1/28/2008	3:58:47	3.8	277	8.98	9.57	85.5
1/28/2008	4:13:47	3.8	277	8.97	9.59	85.7
1/28/2008	4:28:47	3.9	276	8.95	9.58	85.6
1/28/2008	4:43:47	3.9	276	8.93	9.56	85.5
1/28/2008	4:58:47	3.9	275	8.90	9.46	84.5
1/28/2008	5:13:47	3.8	274	8.87	9.49	84.8
1/28/2008	5:28:47	3.8	273	8.83	9.41	84.0
1/28/2008	5:43:47	3.8	273	8.80	9.45	84.4
1/28/2008	5:58:47	3.8	275	8.76	9.39	83.7
1/28/2008	6:13:47	3.7	276	8.72	9.42	83.9
1/28/2008	6:28:47	3.7	275	8.67	9.39	83.6
1/28/2008	6:43:47	3.7	274	8.62	9.44	83.9
1/28/2008	6:58:47	3.6	273	8.58	9.38	83.3
1/28/2008	7:13:47	3.6	274	8.54	9.38	83.1
1/28/2008	7:28:47	3.5	273	8.49	9.37	83.0
1/28/2008	7:43:47	3.5	274	8.46	9.45	83.6
1/28/2008	7:58:47	3.4	277	8.42	9.43	83.3
1/28/2008	8:13:47	3.3	276	8.40	9.39	82.8
1/28/2008	8:28:47	3.3	278	8.37	9.41	83.0
1/28/2008	8:43:47	3.3	275	8.35	9.49	83.6
1/28/2008	8:58:47	3.3	277	8.34	9.46	83.4
1/28/2008	9:13:47	3.4	277	8.33	9.53	84.1
1/28/2008	9:28:47	3.4	278	8.32	9.59	84.8
1/28/2008	9:43:47	3.5	279	8.32	9.64	85.4
1/28/2008	9:58:47	3.6	279	8.32	9.74	86.4
1/28/2008	10:13:47	3.7	280	8.33	9.77	86.9
1/28/2008	10:28:47	3.8	279	8.33	9.77	87.2
1/28/2008	10:43:47	3.9	280	8.34	9.81	87.8
1/28/2008	10:58:47	4.0	279	8.35	9.80	88.0
1/28/2008	11:13:47	4.2	279	8.35	9.93	89.5

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	11:28:47	4.4	278	8.37	9.98	90.5
1/28/2008	11:43:47	4.6	279	8.39	10.05	91.6
1/28/2008	11:58:47	4.7	281	8.40	10.09	92.3
1/28/2008	12:13:47	4.8	282	8.41	10.15	93.1
1/28/2008	12:28:47	5.0	283	8.43	10.16	93.5
1/28/2008	12:43:47	5.1	284	8.45	10.19	94.0
1/28/2008	12:58:47	5.1	286	8.47	10.20	94.2
1/28/2008	13:13:47	5.2	286	8.48	10.22	94.5
1/28/2008	13:28:47	5.2	286	8.49	10.20	94.5
1/28/2008	13:43:47	5.3	287	8.52	10.29	95.6
1/28/2008	13:58:47	5.5	287	8.54	10.31	96.1
1/28/2008	14:13:47	5.6	287	8.56	10.30	96.3
1/28/2008	14:28:47	5.7	287	8.59	10.33	96.8
1/28/2008	14:43:47	5.8	286	8.61	10.38	97.5
1/28/2008	14:58:47	5.9	286	8.64	10.39	97.8
1/28/2008	15:13:47	6.0	286	8.67	10.43	98.5
1/28/2008	15:28:47	6.0	285	8.70	10.46	98.9
1/28/2008	15:43:47	6.0	284	8.73	10.53	99.6
1/28/2008	15:58:47	6.0	284	8.75	10.56	99.7
1/28/2008	16:13:47	5.9	284	8.78	10.53	99.3
1/28/2008	16:28:47	5.8	284	8.80	10.49	98.6
1/28/2008	16:43:47	5.7	285	8.82	10.52	98.6
1/28/2008	16:58:47	5.6	285	8.83	10.48	98.1
1/28/2008	17:13:47	5.5	284	8.85	10.41	97.2
1/28/2008	17:28:47	5.5	283	8.86	10.44	97.3
1/28/2008	17:43:47	5.4	283	8.88	10.45	97.2
1/28/2008	17:58:47	5.3	283	8.89	10.44	96.9
1/28/2008	18:13:47	5.2	284	8.91	10.47	97.0
1/28/2008	18:28:47	5.2	284	8.93	10.40	96.2
1/28/2008	18:43:47	5.1	285	8.94	10.48	96.8
1/28/2008	18:58:47	5.0	285	8.95	10.40	95.8
1/28/2008	19:13:47	4.9	285	8.96	10.43	95.8
1/28/2008	19:28:47	4.8	284	8.97	10.38	95.1
1/28/2008	19:43:47	4.7	283	8.96	10.31	94.2
1/28/2008	19:58:47	4.6	284	8.96	10.29	93.8
1/28/2008	20:13:47	4.5	283	8.96	10.26	93.3
1/28/2008	20:28:47	4.4	284	8.95	10.18	92.3
1/28/2008	20:43:47	4.3	282	8.95	10.19	92.2
1/28/2008	20:58:47	4.3	282	8.96	10.12	91.4
1/28/2008	21:13:47	4.2	281	8.95	10.15	91.5
1/28/2008	21:28:47	4.1	280	8.95	10.17	91.5
1/28/2008	21:43:47	4.0	281	8.95	10.08	90.4
1/28/2008	21:58:47	4.0	280	8.95	10.11	90.6
1/28/2008	22:13:47	3.9	280	8.95	10.05	89.9
1/28/2008	22:28:47	3.8	281	8.95	10.05	89.8
1/28/2008	22:43:47	3.8	283	8.95	9.94	88.6

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	22:58:47	3.7	284	8.94	10.02	89.2
1/28/2008	23:13:47	3.5	285	8.94	9.95	88.1
1/28/2008	23:28:47	3.2	285	8.93	9.85	86.6
1/28/2008	23:43:47	3.1	285	8.93	9.84	86.2
1/28/2008	23:58:47	3.0	286	8.93	9.82	85.9
1/29/2008	0:13:47	2.9	286	8.93	9.74	84.9
1/29/2008	0:28:47	2.8	285	8.94	9.77	84.9
1/29/2008	0:43:47	2.7	284	8.95	9.80	85.0
1/29/2008	0:58:47	2.7	285	8.96	9.77	84.6
1/29/2008	1:13:47	2.6	283	8.98	9.80	84.7
1/29/2008	1:28:47	2.6	284	9.00	9.83	85.0
1/29/2008	1:43:47	2.6	284	9.01	9.81	84.8
1/29/2008	1:58:47	2.6	284	9.02	9.79	84.5
1/29/2008	2:13:47	2.5	283	9.03	9.79	84.4
1/29/2008	2:28:47	2.4	283	9.04	9.75	83.9
1/29/2008	2:43:47	2.4	286	9.03	9.76	83.8
1/29/2008	2:58:47	2.3	286	9.03	9.75	83.7
1/29/2008	3:13:47	2.3	286	9.03	9.65	82.7
1/29/2008	3:28:47	2.2	283	9.03	9.75	83.4
1/29/2008	3:43:47	2.2	283	9.02	9.66	82.5
1/29/2008	3:58:47	2.1	285	9.01	9.69	82.6
1/29/2008	4:13:47	2.0	287	9.00	9.67	82.3
1/29/2008	4:28:47	2.0	287	8.99	9.71	82.5
1/29/2008	4:43:47	1.9	283	8.98	9.68	82.1
1/29/2008	4:58:47	1.9	279	8.95	9.74	82.5
1/29/2008	5:13:47	1.8	276	8.94	9.74	82.3
1/29/2008	5:28:47	1.7	276	8.92	9.75	82.3
1/29/2008	5:43:47	1.6	278	8.89	9.70	81.6
1/29/2008	5:58:47	1.5	276	8.86	9.71	81.5
1/29/2008	6:13:47	1.4	272	8.82	9.75	81.7
1/29/2008	6:28:47	1.4	269	8.79	9.76	81.6
1/29/2008	6:43:47	1.3	269	8.75	9.79	81.6
1/29/2008	6:58:47	1.2	267	8.71	9.75	81.0
1/29/2008	7:13:47	1.1	265	8.66	9.85	81.6
1/29/2008	7:28:47	1.0	263	8.61	9.81	81.1
1/29/2008	7:43:47	0.9	264	8.58	9.85	81.2
1/29/2008	7:58:47	0.7	263	8.53	9.88	81.1
1/29/2008	8:13:47	0.7	263	8.50	9.98	81.7
1/29/2008	8:28:47	0.6	264	8.47	10.04	82.2
1/29/2008	8:43:47	0.6	264	8.44	10.15	83.1
1/29/2008	8:58:47	0.6	264	8.42	10.16	83.0
1/29/2008	9:13:47	0.6	264	8.41	10.24	83.6
1/29/2008	9:28:47	0.7	262	8.40	10.35	84.9
1/29/2008	9:43:47	0.7	261	8.39	10.37	85.1
1/29/2008	9:58:47	0.7	261	8.39	10.45	85.8
1/29/2008	10:13:47	0.8	260	8.38	10.53	86.6

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	10:28:47	0.9	259	8.39	10.53	86.8
1/29/2008	10:43:47	1.1	259	8.40	10.64	88.1
1/29/2008	10:58:47	1.2	257	8.40	10.75	89.3
1/29/2008	11:13:47	1.3	257	8.41	10.85	90.5
1/29/2008	11:28:47	1.4	257	8.42	10.85	90.7
1/29/2008	11:43:47	1.5	257	8.43	10.86	91.1
1/29/2008	11:58:47	1.6	256	8.45	10.98	92.4
1/29/2008	12:13:47	1.8	256	8.46	11.04	93.2
1/29/2008	12:28:47	1.9	255	8.47	11.03	93.6
1/29/2008	12:43:47	2.0	255	8.49	11.14	94.8
1/29/2008	12:58:47	2.2	255	8.51	11.16	95.3
1/29/2008	13:13:47	2.3	254	8.53	11.26	96.5
1/29/2008	13:28:47	2.4	255	8.56	11.19	96.2
1/29/2008	13:43:47	2.5	254	8.58	11.30	97.4
1/29/2008	13:58:47	2.6	254	8.61	11.38	98.2
1/29/2008	14:13:47	2.6	255	8.63	11.46	99.2
1/29/2008	14:28:47	2.7	254	8.66	11.57	100.3
1/29/2008	14:43:47	2.7	254	8.69	11.55	100.2
1/29/2008	14:58:47	2.8	254	8.72	11.67	101.3
1/29/2008	15:13:47	2.8	254	8.75	11.67	101.4
1/29/2008	15:28:47	2.8	254	8.78	11.72	101.8
1/29/2008	15:43:47	2.8	254	8.81	11.79	102.4
1/29/2008	15:58:47	2.8	253	8.84	11.77	102.2
1/29/2008	16:13:47	2.7	253	8.87	11.76	102.0
1/29/2008	16:28:47	2.7	254	8.89	11.81	102.3
1/29/2008	16:43:47	2.6	254	8.92	11.84	102.5
1/29/2008	16:58:47	2.6	256	8.94	11.77	101.7
1/29/2008	17:13:47	2.5	260	8.95	11.74	101.3
1/29/2008	17:28:47	2.5	260	8.96	11.72	101.0
1/29/2008	17:43:47	2.4	263	8.98	11.66	100.4
1/29/2008	17:58:47	2.4	267	9.00	11.66	100.2
1/29/2008	18:13:47	2.3	272	9.01	11.67	100.2
1/29/2008	18:28:47	2.3	277	9.02	11.68	100.1
1/29/2008	18:43:47	2.3	284	9.03	11.64	99.7
1/29/2008	18:58:47	2.2	289	9.04	11.59	99.2
1/29/2008	19:13:47	2.2	297	9.05	11.60	99.2
1/29/2008	19:28:47	2.1	323	9.04	11.49	98.0
1/29/2008	19:43:47	2.1	343	9.03	11.46	97.7
1/29/2008	19:58:47	2.1	349	9.03	11.37	96.9
1/29/2008	20:13:47	2.0	345	9.04	11.39	96.9
1/29/2008	20:28:47	2.0	337	9.05	11.26	95.8
1/29/2008	20:43:47	2.0	329	9.06	11.28	96.0
1/29/2008	20:58:47	2.0	325	9.07	11.26	95.8
1/29/2008	21:13:47	2.0	324	9.07	11.25	95.6
1/29/2008	21:28:47	2.0	325	9.08	11.17	94.9
1/29/2008	21:43:47	1.9	321	9.08	11.09	94.1

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	21:58:47	1.9	316	9.09	11.03	93.7
1/29/2008	22:13:47	1.9	309	9.09	11.01	93.4
1/29/2008	22:28:47	1.9	304	9.10	10.98	93.2
1/29/2008	22:43:47	1.9	303	9.10	10.90	92.5
1/29/2008	22:58:47	1.9	299	9.11	10.83	91.8
1/29/2008	23:13:47	1.9	297	9.11	10.72	90.8
1/29/2008	23:28:47	1.9	304	9.11	10.69	90.6
1/29/2008	23:43:47	1.9	305	9.12	10.65	90.2
1/29/2008	23:58:47	1.9	301	9.12	10.62	90.0
1/30/2008	0:13:47	1.9	299	9.13	10.55	89.4
1/30/2008	0:28:47	1.9	296	9.14	10.55	89.5
1/30/2008	0:43:47	1.9	291	9.15	10.48	88.9
1/30/2008	0:58:47	1.9	290	9.15	10.40	88.3
1/30/2008	1:13:47	1.9	288	9.15	10.42	88.4
1/30/2008	1:28:47	1.9	288	9.15	10.40	88.2
1/30/2008	1:43:47	1.9	284	9.15	10.32	87.5
1/30/2008	1:58:47	1.9	283	9.15	10.34	87.7
1/30/2008	2:13:47	1.9	286	9.14	10.29	87.3
1/30/2008	2:28:47	1.9	283	9.14	10.28	87.2
1/30/2008	2:43:47	1.9	284	9.13	10.21	86.5
1/30/2008	2:58:47	1.9	281	9.12	10.21	86.4
1/30/2008	3:13:47	1.8	280	9.11	10.12	85.6
1/30/2008	3:28:47	1.8	278	9.10	10.06	85.0
1/30/2008	3:43:47	1.7	271	9.08	10.14	85.6
1/30/2008	3:58:47	1.6	276	9.06	10.15	85.4
1/30/2008	4:13:47	1.6	275	9.04	10.08	84.7
1/30/2008	4:28:47	1.5	272	9.01	10.10	84.7
1/30/2008	4:43:47	1.4	272	8.98	10.06	84.2
1/30/2008	4:58:47	1.4	273	8.94	10.08	84.2
1/30/2008	5:13:47	1.3	273	8.90	10.03	83.6
1/30/2008	5:28:47	1.2	275	8.86	10.05	83.6
1/30/2008	5:43:47	1.1	273	8.81	10.05	83.4
1/30/2008	5:58:47	1.0	274	8.76	10.04	83.1
1/30/2008	6:13:47	1.0	275	8.70	10.03	82.8
1/30/2008	6:28:47	0.9	274	8.66	10.03	82.6
1/30/2008	6:43:47	0.8	274	8.60	9.95	81.9
1/30/2008	6:58:47	0.7	274	8.55	10.09	82.9
1/30/2008	7:13:47	0.7	274	8.51	10.09	82.7
1/30/2008	7:28:47	0.7	272	8.47	10.11	82.8
1/30/2008	7:43:47	0.6	270	8.43	10.10	82.6
1/30/2008	7:58:47	0.6	270	8.40	10.09	82.4
1/30/2008	8:13:47	0.5	270	8.37	10.12	82.5
1/30/2008	8:28:47	0.5	270	8.34	10.12	82.5
1/30/2008	8:43:47	0.5	271	8.33	10.15	82.7
1/30/2008	8:58:47	0.4	269	8.31	10.16	82.7
1/30/2008	9:13:47	0.4	265	8.30	10.24	83.3

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	9:28:47	0.5	261	8.29	10.27	83.6
1/30/2008	9:43:47	0.5	258	8.29	10.29	83.9
1/30/2008	9:58:47	0.6	256	8.29	10.34	84.5
1/30/2008	10:13:47	0.6	258	8.28	10.38	84.9
1/30/2008	10:28:47	0.7	256	8.29	10.48	85.8
1/30/2008	10:43:47	0.7	256	8.29	10.46	85.8
1/30/2008	10:58:47	0.8	257	8.30	10.54	86.6
1/30/2008	11:13:47	0.8	256	8.31	10.55	86.8
1/30/2008	11:28:47	0.9	257	8.31	10.56	87.0
1/30/2008	11:43:47	0.9	258	8.32	10.58	87.2
1/30/2008	11:58:47	0.9	256	8.32	10.62	87.6
1/30/2008	12:13:47	1.0	257	8.32	10.66	88.1
1/30/2008	12:28:47	1.1	255	8.35	10.67	88.4
1/30/2008	12:43:47	1.1	256	8.36	10.71	88.9
1/30/2008	12:58:47	1.2	255	8.37	10.75	89.3
1/30/2008	13:13:47	1.2	255	8.40	10.88	90.5
1/30/2008	13:28:47	1.3	256	8.41	10.79	90.0
1/30/2008	13:43:47	1.4	256	8.43	10.86	90.7
1/30/2008	13:58:47	1.5	256	8.44	10.97	91.9
1/30/2008	14:13:47	1.7	256	8.47	10.98	92.5
1/30/2008	14:28:47	1.7	257	8.49	11.04	93.1
1/30/2008	14:43:47	1.7	256	8.52	11.09	93.6
1/30/2008	14:58:47	1.8	254	8.55	11.15	94.3
1/30/2008	15:13:47	1.9	254	8.57	11.19	94.8
1/30/2008	15:28:47	2.0	255	8.60	11.25	95.6
1/30/2008	15:43:47	2.0	255	8.62	11.25	95.6
1/30/2008	15:58:47	2.0	255	8.64	11.25	95.6
1/30/2008	16:13:47	2.0	256	8.66	11.26	95.7
1/30/2008	16:28:47	2.0	254	8.68	11.29	95.9
1/30/2008	16:43:47	2.0	254	8.70	11.28	95.9
1/30/2008	16:58:47	2.0	254	8.72	11.29	95.9
1/30/2008	17:13:47	1.9	252	8.74	11.28	95.7
1/30/2008	17:28:47	1.9	254	8.75	11.23	95.3
1/30/2008	17:43:47	1.9	253	8.76	11.23	95.2
1/30/2008	17:58:47	1.9	254	8.78	11.21	94.9
1/30/2008	18:13:47	1.8	261	8.78	11.19	94.6
1/30/2008	18:28:47	1.7	273	8.79	11.12	93.8
1/30/2008	18:43:47	1.7	281	8.80	11.06	93.2
1/30/2008	18:58:47	1.7	284	8.81	11.06	93.2
1/30/2008	19:13:47	1.7	285	8.82	11.05	93.2
1/30/2008	19:28:47	1.7	289	8.83	11.01	92.8
1/30/2008	19:43:47	1.7	289	8.84	10.96	92.4
1/30/2008	19:58:47	1.7	287	8.84	10.97	92.5
1/30/2008	20:13:47	1.7	285	8.85	10.93	92.2
1/30/2008	20:28:47	1.7	289	8.85	10.93	92.3
1/30/2008	20:43:47	1.7	285	8.86	10.91	92.1

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	20:58:47	1.7	286	8.87	10.87	91.7
1/30/2008	21:13:47	1.7	285	8.88	10.89	91.9
1/30/2008	21:28:47	1.8	286	8.89	10.78	91.1
1/30/2008	21:43:47	1.8	284	8.89	10.71	90.4
1/30/2008	21:58:47	1.8	283	8.90	10.70	90.4
1/30/2008	22:13:47	1.7	280	8.90	10.70	90.3
1/30/2008	22:28:47	1.7	279	8.91	10.56	89.2
1/30/2008	22:43:47	1.7	277	8.91	10.55	88.9
1/30/2008	22:58:47	1.7	274	8.92	10.55	88.9
1/30/2008	23:13:47	1.6	274	8.93	10.50	88.4
1/30/2008	23:28:47	1.6	273	8.93	10.44	87.8
1/30/2008	23:43:47	1.5	271	8.94	10.44	87.6
1/30/2008	23:58:47	1.5	271	8.95	10.38	87.0
1/31/2008	0:13:47	1.4	270	8.96	10.37	86.8
1/31/2008	0:28:47	1.4	268	8.97	10.37	86.7
1/31/2008	0:43:47	1.4	267	8.98	10.35	86.5
1/31/2008	0:58:47	1.4	265	8.98	10.22	85.3
1/31/2008	1:13:47	1.4	264	9.00	10.30	86.0
1/31/2008	1:28:47	1.4	261	9.00	10.26	85.7
1/31/2008	1:43:47	1.3	261	9.01	10.20	85.1
1/31/2008	1:58:47	1.3	258	9.02	10.23	85.4
1/31/2008	2:13:47	1.3	258	9.02	10.25	85.5
1/31/2008	2:28:47	1.3	258	9.03	10.20	85.2
1/31/2008	2:43:47	1.3	256	9.02	10.14	84.6
1/31/2008	2:58:47	1.3	256	9.02	10.20	85.0
1/31/2008	3:13:47	1.3	256	9.01	10.15	84.5
1/31/2008	3:28:47	1.2	256	9.00	10.09	83.9
1/31/2008	3:43:47	1.2	255	8.99	10.09	83.8
1/31/2008	3:58:47	1.1	256	8.98	10.08	83.7
1/31/2008	4:13:47	1.1	254	8.96	10.10	83.7
1/31/2008	4:28:47	1.0	254	8.94	10.16	84.1
1/31/2008	4:43:47	1.0	253	8.92	10.11	83.6
1/31/2008	4:58:47	0.9	253	8.89	10.12	83.5
1/31/2008	5:13:47	0.8	252	8.86	10.10	83.1
1/31/2008	5:28:47	0.7	252	8.83	10.12	83.1
1/31/2008	5:43:47	0.7	251	8.80	10.18	83.4
1/31/2008	5:58:47	0.6	250	8.76	10.11	82.6
1/31/2008	6:13:47	0.5	251	8.73	10.18	83.1
1/31/2008	6:28:47	0.4	252	8.69	10.11	82.3
1/31/2008	6:43:47	0.4	251	8.65	10.20	82.8
1/31/2008	6:58:47	0.3	252	8.61	10.16	82.2
1/31/2008	7:13:47	0.2	252	8.57	10.20	82.4
1/31/2008	7:28:47	0.1	252	8.54	10.22	82.3
1/31/2008	7:43:47	0.0	253	8.50	10.23	82.2
1/31/2008	7:58:47	-0.1	251	8.48	10.29	82.5
1/31/2008	8:13:47	-0.1	253	8.45	10.35	82.9

Table 5.52. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2008	8:28:47	-0.2	252	8.43	10.42	83.3
1/31/2008	8:43:47	-0.2	254	8.42	10.42	83.3
1/31/2008	8:58:47	-0.2	253	8.40	10.48	83.8
1/31/2008	9:13:47	-0.1	254	8.39	10.59	84.9
1/31/2008	9:28:47	-0.1	253	8.39	10.64	85.3
1/31/2008	9:43:47	0.0	253	8.39	10.67	85.7
1/31/2008	9:58:47	0.0	254	8.38	10.74	86.4
1/31/2008	10:13:47	0.1	254	8.38	10.79	87.0
1/31/2008	10:28:47	0.2	253	8.38	10.85	87.7
1/31/2008	10:43:47	0.3	252	8.38	10.93	88.7
1/31/2008	10:58:47	0.4	253	8.39	10.93	88.9
1/31/2008	11:13:47	0.6	254	8.39	10.96	89.6
1/31/2008	11:28:47	0.7	252	8.41	11.08	90.8

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45476**	**Name**	**:**	**Apollo**
Log	**File**	**Name**	**:**	**site2_1-26-2008P**
Setup	**Date**	**(MMDDYY)**	**:**	**1/26/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**13:14:00**
Starting	**Date**	**(MMDDYY)**	**:**	**1/26/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**15:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**2/11/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**9:49:02**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
1/26/2008	16:00:00	6.42	11.15	106.5
1/26/2008	16:15:00	6.39	11.21	107.0
1/26/2008	16:30:00	6.34	11.24	107.2
1/26/2008	16:45:00	6.28	11.27	107.3
1/26/2008	17:00:00	6.21	11.31	107.4
1/26/2008	17:15:00	6.11	11.33	107.4
1/26/2008	17:30:00	6.02	11.34	107.2
1/26/2008	17:45:00	5.88	11.34	106.8
1/26/2008	18:00:00	5.79	11.33	106.5
1/26/2008	18:15:00	5.68	11.33	106.2
1/26/2008	18:30:00	5.59	11.33	105.9
1/26/2008	18:45:00	5.46	11.33	105.6
1/26/2008	19:00:00	5.36	11.32	105.2
1/26/2008	19:15:00	5.23	11.32	104.9
1/26/2008	19:30:00	5.11	11.33	104.6
1/26/2008	19:45:00	4.98	11.33	104.3
1/26/2008	20:00:00	4.91	11.32	104.0
1/26/2008	20:15:00	4.79	11.33	103.8
1/26/2008	20:30:00	4.71	11.32	103.5
1/26/2008	20:45:00	4.61	11.34	103.3
1/26/2008	21:00:00	4.53	11.33	103.1
1/26/2008	21:15:00	4.46	11.33	102.9
1/26/2008	21:30:00	4.39	11.33	102.7
1/26/2008	21:45:00	4.34	11.33	102.5
1/26/2008	22:00:00	4.27	11.33	102.3
1/26/2008	22:15:00	4.17	11.33	102.1
1/26/2008	22:30:00	4.08	11.32	101.8
1/26/2008	22:45:00	4.01	11.31	101.5
1/26/2008	23:00:00	3.94	11.32	101.4
1/26/2008	23:15:00	3.91	11.31	101.2
1/26/2008	23:30:00	3.81	11.31	101.0
1/26/2008	23:45:00	3.73	11.30	100.7
1/27/2008	0:00:00	3.70	11.29	100.5
1/27/2008	0:15:00	3.66	11.29	100.4
1/27/2008	0:30:00	3.60	11.30	100.3

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	0:45:00	3.54	11.30	100.1
1/27/2008	1:00:00	3.51	11.29	100.0
1/27/2008	1:15:00	3.44	11.29	99.8
1/27/2008	1:30:00	3.40	11.30	99.7
1/27/2008	1:45:00	3.36	11.30	99.6
1/27/2008	2:00:00	3.33	11.29	99.5
1/27/2008	2:15:00	3.29	11.29	99.4
1/27/2008	2:30:00	3.24	11.29	99.3
1/27/2008	2:45:00	3.19	11.29	99.1
1/27/2008	3:00:00	3.17	11.29	99.1
1/27/2008	3:15:00	3.13	11.28	98.9
1/27/2008	3:30:00	3.11	11.28	98.8
1/27/2008	3:45:00	3.03	11.28	98.6
1/27/2008	4:00:00	3.01	11.28	98.6
1/27/2008	4:15:00	2.99	11.26	98.4
1/27/2008	4:30:00	2.97	11.26	98.3
1/27/2008	4:45:00	2.93	11.26	98.1
1/27/2008	5:00:00	2.92	11.25	98.0
1/27/2008	5:15:00	2.92	11.23	97.9
1/27/2008	5:30:00	2.92	11.22	97.8
1/27/2008	5:45:00	2.91	11.21	97.7
1/27/2008	6:00:00	2.91	11.20	97.6
1/27/2008	6:15:00	2.87	11.20	97.5
1/27/2008	6:30:00	2.86	11.19	97.4
1/27/2008	6:45:00	2.86	11.18	97.3
1/27/2008	7:00:00	2.89	11.16	97.2
1/27/2008	7:15:00	2.88	11.15	97.1
1/27/2008	7:30:00	2.88	11.15	97.1
1/27/2008	7:45:00	2.90	11.15	97.2
1/27/2008	8:00:00	2.94	11.15	97.2
1/27/2008	8:15:00	2.96	11.14	97.2
1/27/2008	8:30:00	2.99	11.14	97.3
1/27/2008	8:45:00	3.04	11.14	97.4
1/27/2008	9:00:00	3.07	11.15	97.6
1/27/2008	9:15:00	3.13	11.14	97.7
1/27/2008	9:30:00	3.19	11.14	97.8
1/27/2008	9:45:00	3.25	11.15	98.0
1/27/2008	10:00:00	3.37	11.13	98.2
1/27/2008	10:15:00	3.49	11.15	98.7
1/27/2008	10:30:00	3.58	11.17	99.1
1/27/2008	10:45:00	3.64	11.18	99.3
1/27/2008	11:00:00	3.74	11.18	99.6
1/27/2008	11:15:00	3.80	11.21	100.0
1/27/2008	11:30:00	3.92	11.21	100.3
1/27/2008	11:45:00	3.98	11.22	100.6
1/27/2008	12:00:00	4.04	11.23	100.8

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	12:15:00	4.09	11.25	101.1
1/27/2008	12:30:00	4.13	11.26	101.4
1/27/2008	12:45:00	4.20	11.28	101.7
1/27/2008	13:00:00	4.29	11.29	102.1
1/27/2008	13:15:00	4.38	11.30	102.4
1/27/2008	13:30:00	4.47	11.33	102.9
1/27/2008	13:45:00	4.54	11.34	103.2
1/27/2008	14:00:00	4.63	11.36	103.6
1/27/2008	14:15:00	4.78	11.38	104.2
1/27/2008	14:30:00	4.84	11.40	104.6
1/27/2008	14:45:00	4.85	11.42	104.8
1/27/2008	15:00:00	4.85	11.45	105.0
1/27/2008	15:15:00	4.86	11.47	105.3
1/27/2008	15:30:00	4.87	11.50	105.6
1/27/2008	15:45:00	4.86	11.51	105.7
1/27/2008	16:00:00	4.84	11.53	105.8
1/27/2008	16:15:00	4.83	11.54	105.8
1/27/2008	16:30:00	4.79	11.54	105.7
1/27/2008	16:45:00	4.77	11.55	105.7
1/27/2008	17:00:00	4.74	11.55	105.7
1/27/2008	17:15:00	4.74	11.55	105.7
1/27/2008	17:30:00	4.72	11.55	105.6
1/27/2008	17:45:00	4.71	11.54	105.5
1/27/2008	18:00:00	4.69	11.54	105.5
1/27/2008	18:15:00	4.70	11.53	105.4
1/27/2008	18:30:00	4.67	11.53	105.2
1/27/2008	18:45:00	4.66	11.52	105.1
1/27/2008	19:00:00	4.64	11.52	105.1
1/27/2008	19:15:00	4.61	11.51	104.9
1/27/2008	19:30:00	4.61	11.50	104.8
1/27/2008	19:45:00	4.60	11.49	104.7
1/27/2008	20:00:00	4.58	11.48	104.6
1/27/2008	20:15:00	4.58	11.47	104.5
1/27/2008	20:30:00	4.58	11.45	104.3
1/27/2008	20:45:00	4.57	11.42	104.0
1/27/2008	21:00:00	4.57	11.40	103.8
1/27/2008	21:15:00	4.56	11.38	103.6
1/27/2008	21:30:00	4.54	11.36	103.4
1/27/2008	21:45:00	4.54	11.34	103.2
1/27/2008	22:00:00	4.52	11.33	103.0
1/27/2008	22:15:00	4.53	11.31	102.9
1/27/2008	22:30:00	4.53	11.28	102.6
1/27/2008	22:45:00	4.53	11.26	102.4
1/27/2008	23:00:00	4.53	11.23	102.2
1/27/2008	23:15:00	4.52	11.21	102.0
1/27/2008	23:30:00	4.50	11.20	101.8

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	23:45:00	4.52	11.17	101.6
1/28/2008	0:00:00	4.53	11.14	101.4
1/28/2008	0:15:00	4.52	11.13	101.2
1/28/2008	0:30:00	4.54	11.10	101.0
1/28/2008	0:45:00	4.55	11.08	100.9
1/28/2008	1:00:00	4.55	11.07	100.8
1/28/2008	1:15:00	4.57	11.05	100.6
1/28/2008	1:30:00	4.58	11.04	100.5
1/28/2008	1:45:00	4.62	11.01	100.4
1/28/2008	2:00:00	4.62	11.00	100.3
1/28/2008	2:15:00	4.61	10.98	100.1
1/28/2008	2:30:00	4.63	10.97	100.0
1/28/2008	2:45:00	4.64	10.94	99.9
1/28/2008	3:00:00	4.66	10.93	99.7
1/28/2008	3:15:00	4.67	10.91	99.6
1/28/2008	3:30:00	4.69	10.89	99.5
1/28/2008	3:45:00	4.71	10.87	99.3
1/28/2008	4:00:00	4.73	10.84	99.2
1/28/2008	4:15:00	4.78	10.82	99.1
1/28/2008	4:30:00	4.84	10.79	99.0
1/28/2008	4:45:00	4.88	10.77	98.9
1/28/2008	5:00:00	4.92	10.76	98.9
1/28/2008	5:15:00	4.94	10.74	98.7
1/28/2008	5:30:00	4.96	10.71	98.6
1/28/2008	5:45:00	4.97	10.70	98.5
1/28/2008	6:00:00	4.99	10.69	98.4
1/28/2008	6:15:00	5.01	10.67	98.3
1/28/2008	6:30:00	5.01	10.66	98.2
1/28/2008	6:45:00	5.04	10.63	98.0
1/28/2008	7:00:00	5.06	10.61	97.8
1/28/2008	7:15:00	5.07	10.59	97.7
1/28/2008	7:30:00	5.09	10.57	97.6
1/28/2008	7:45:00	5.12	10.56	97.5
1/28/2008	8:00:00	5.12	10.55	97.5
1/28/2008	8:15:00	5.12	10.54	97.4
1/28/2008	8:30:00	5.10	10.53	97.2
1/28/2008	8:45:00	5.03	10.50	96.8
1/28/2008	9:00:00	4.86	10.16	93.2
1/28/2008	9:15:00	4.86	9.79	89.8
1/28/2008	9:30:00	5.13	9.93	91.8
1/28/2008	9:45:00	5.36	10.03	93.2
1/28/2008	10:00:00	5.59	10.12	94.6
1/28/2008	10:15:00	5.77	10.16	95.4
1/28/2008	10:30:00	5.94	10.20	96.2
1/28/2008	10:45:00	6.12	10.23	97.0
1/28/2008	11:00:00	6.25	10.24	97.4

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	11:15:00	6.37	10.25	97.8
1/28/2008	11:30:00	6.54	10.27	98.4
1/28/2008	11:45:00	6.68	10.27	98.8
1/28/2008	12:00:00	6.82	10.29	99.2
1/28/2008	12:15:00	6.97	10.29	99.7
1/28/2008	12:30:00	7.11	10.31	100.2
1/28/2008	12:45:00	7.21	10.33	100.6
1/28/2008	13:00:00	7.28	10.34	100.9
1/28/2008	13:15:00	7.32	10.37	101.3
1/28/2008	13:30:00	7.33	10.40	101.6
1/28/2008	13:45:00	7.42	10.40	101.9
1/28/2008	14:00:00	7.51	10.40	102.0
1/28/2008	14:15:00	7.58	10.39	102.2
1/28/2008	14:30:00	7.64	10.39	102.4
1/28/2008	14:45:00	7.74	10.40	102.6
1/28/2008	15:00:00	7.81	10.42	103.0
1/28/2008	15:15:00	7.90	10.43	103.3
1/28/2008	15:30:00	7.97	10.44	103.7
1/28/2008	15:45:00	7.99	10.47	104.0
1/28/2008	16:00:00	8.00	10.49	104.2
1/28/2008	16:15:00	8.01	10.52	104.5
1/28/2008	16:30:00	7.98	10.55	104.8
1/28/2008	16:45:00	7.96	10.56	104.8
1/28/2008	17:00:00	7.89	10.57	104.7
1/28/2008	17:15:00	7.79	10.58	104.6
1/28/2008	17:30:00	7.71	10.58	104.4
1/28/2008	17:45:00	7.61	10.57	104.0
1/28/2008	18:00:00	7.52	10.55	103.5
1/28/2008	18:15:00	7.39	10.54	103.1
1/28/2008	18:30:00	7.29	10.52	102.7
1/28/2008	18:45:00	7.13	10.52	102.3
1/28/2008	19:00:00	7.00	10.50	101.8
1/28/2008	19:15:00	6.89	10.51	101.6
1/28/2008	19:30:00	6.81	10.51	101.3
1/28/2008	19:45:00	6.72	10.52	101.2
1/28/2008	20:00:00	6.65	10.51	101.0
1/28/2008	20:15:00	6.58	10.51	100.8
1/28/2008	20:30:00	6.53	10.51	100.6
1/28/2008	20:45:00	6.49	10.50	100.5
1/28/2008	21:00:00	6.47	10.49	100.3
1/28/2008	21:15:00	6.43	10.48	100.2
1/28/2008	21:30:00	6.38	10.47	99.9
1/28/2008	21:45:00	6.32	10.46	99.7
1/28/2008	22:00:00	6.27	10.46	99.5
1/28/2008	22:15:00	6.22	10.45	99.3
1/28/2008	22:30:00	6.14	10.44	99.0

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	22:45:00	6.07	10.44	98.8
1/28/2008	23:00:00	5.98	10.44	98.6
1/28/2008	23:15:00	5.91	10.43	98.3
1/28/2008	23:30:00	5.46	10.42	97.1
1/28/2008	23:45:00	5.12	10.41	96.1
1/29/2008	0:00:00	5.15	10.41	96.2
1/29/2008	0:15:00	5.07	10.44	96.3
1/29/2008	0:30:00	4.89	10.48	96.3
1/29/2008	0:45:00	4.75	10.50	96.1
1/29/2008	1:00:00	4.71	10.52	96.1
1/29/2008	1:15:00	4.68	10.53	96.2
1/29/2008	1:30:00	4.64	10.55	96.2
1/29/2008	1:45:00	4.56	10.55	96.1
1/29/2008	2:00:00	4.51	10.55	95.9
1/29/2008	2:15:00	4.46	10.55	95.8
1/29/2008	2:30:00	4.37	10.56	95.7
1/29/2008	2:45:00	4.26	10.58	95.5
1/29/2008	3:00:00	4.16	10.58	95.3
1/29/2008	3:15:00	4.05	10.60	95.3
1/29/2008	3:30:00	3.96	10.63	95.2
1/29/2008	3:45:00	3.81	10.65	95.1
1/29/2008	4:00:00	3.70	10.67	95.0
1/29/2008	4:15:00	3.64	10.67	94.9
1/29/2008	4:30:00	3.52	10.70	94.7
1/29/2008	4:45:00	3.39	10.72	94.7
1/29/2008	5:00:00	3.29	10.74	94.5
1/29/2008	5:15:00	3.21	10.75	94.4
1/29/2008	5:30:00	3.09	10.78	94.4
1/29/2008	5:45:00	3.02	10.80	94.4
1/29/2008	6:00:00	2.97	10.81	94.3
1/29/2008	6:15:00	2.89	10.83	94.3
1/29/2008	6:30:00	2.80	10.84	94.2
1/29/2008	6:45:00	2.73	10.86	94.2
1/29/2008	7:00:00	2.69	10.86	94.1
1/29/2008	7:15:00	2.64	10.87	94.1
1/29/2008	7:30:00	2.59	10.89	94.1
1/29/2008	7:45:00	2.54	10.90	94.0
1/29/2008	8:00:00	2.49	10.92	94.1
1/29/2008	8:15:00	2.47	10.94	94.2
1/29/2008	8:30:00	2.46	10.94	94.2
1/29/2008	8:45:00	2.47	10.94	94.2
1/29/2008	9:00:00	2.47	10.96	94.3
1/29/2008	9:15:00	2.52	10.97	94.6
1/29/2008	9:30:00	2.61	10.99	95.0
1/29/2008	9:45:00	2.67	11.03	95.5
1/29/2008	10:00:00	2.77	11.02	95.7

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	10:15:00	2.86	11.04	96.0
1/29/2008	10:30:00	2.96	11.06	96.5
1/29/2008	10:45:00	3.02	11.05	96.6
1/29/2008	11:00:00	3.14	11.05	96.9
1/29/2008	11:15:00	3.29	11.06	97.4
1/29/2008	11:30:00	3.42	11.09	98.0
1/29/2008	11:45:00	3.58	11.10	98.5
1/29/2008	12:00:00	3.78	11.11	99.1
1/29/2008	12:15:00	3.96	11.12	99.7
1/29/2008	12:30:00	4.14	11.12	100.1
1/29/2008	12:45:00	4.36	11.06	100.2
1/29/2008	13:00:00	4.59	11.05	100.6
1/29/2008	13:15:00	4.79	11.09	101.6
1/29/2008	13:30:00	4.94	11.10	102.0
1/29/2008	13:45:00	5.04	11.13	102.6
1/29/2008	14:00:00	5.12	11.17	103.2
1/29/2008	14:15:00	5.21	11.16	103.3
1/29/2008	14:30:00	5.28	11.21	104.0
1/29/2008	14:45:00	5.39	11.21	104.3
1/29/2008	15:00:00	5.46	11.22	104.5
1/29/2008	15:15:00	5.53	11.21	104.7
1/29/2008	15:30:00	5.59	11.21	104.8
1/29/2008	15:45:00	5.68	11.18	104.8
1/29/2008	16:00:00	5.65	11.21	105.0
1/29/2008	16:15:00	5.56	11.35	106.1
1/29/2008	16:30:00	5.49	11.40	106.3
1/29/2008	16:45:00	5.43	11.38	105.9
1/29/2008	17:00:00	5.34	11.39	105.8
1/29/2008	17:15:00	5.25	11.42	105.9
1/29/2008	17:30:00	5.13	11.43	105.6
1/29/2008	17:45:00	5.01	11.44	105.4
1/29/2008	18:00:00	4.89	11.47	105.3
1/29/2008	18:15:00	4.76	11.45	104.8
1/29/2008	18:30:00	4.64	11.43	104.3
1/29/2008	18:45:00	4.49	11.43	103.9
1/29/2008	19:00:00	4.38	11.43	103.6
1/29/2008	19:15:00	4.29	11.44	103.4
1/29/2008	19:30:00	4.22	11.42	103.0
1/29/2008	19:45:00	4.10	11.42	102.7
1/29/2008	20:00:00	4.02	11.43	102.6
1/29/2008	20:15:00	3.91	11.47	102.6
1/29/2008	20:30:00	3.84	11.45	102.3
1/29/2008	20:45:00	3.75	11.47	102.2
1/29/2008	21:00:00	3.66	11.47	102.0
1/29/2008	21:15:00	3.58	11.48	101.9
1/29/2008	21:30:00	3.50	11.49	101.7

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	21:45:00	3.44	11.50	101.6
1/29/2008	22:00:00	3.36	11.50	101.5
1/29/2008	22:15:00	3.32	11.51	101.4
1/29/2008	22:30:00	3.23	11.51	101.2
1/29/2008	22:45:00	3.17	11.51	101.0
1/29/2008	23:00:00	3.11	11.49	100.7
1/29/2008	23:15:00	3.06	11.48	100.4
1/29/2008	23:30:00	3.01	11.47	100.2
1/29/2008	23:45:00	2.97	11.45	100.0
1/30/2008	0:00:00	2.93	11.45	99.8
1/30/2008	0:15:00	2.88	11.44	99.6
1/30/2008	0:30:00	2.82	11.44	99.5
1/30/2008	0:45:00	2.78	11.43	99.2
1/30/2008	1:00:00	2.74	11.42	99.0
1/30/2008	1:15:00	2.68	11.42	98.9
1/30/2008	1:30:00	2.63	11.41	98.7
1/30/2008	1:45:00	2.60	11.40	98.5
1/30/2008	2:00:00	2.57	11.38	98.3
1/30/2008	2:15:00	2.53	11.38	98.2
1/30/2008	2:30:00	2.51	11.37	98.0
1/30/2008	2:45:00	2.48	11.35	97.8
1/30/2008	3:00:00	2.46	11.34	97.6
1/30/2008	3:15:00	2.43	11.32	97.3
1/30/2008	3:30:00	2.39	11.32	97.3
1/30/2008	3:45:00	2.37	11.30	97.0
1/30/2008	4:00:00	2.35	11.28	96.8
1/30/2008	4:15:00	2.32	11.26	96.5
1/30/2008	4:30:00	2.29	11.25	96.4
1/30/2008	4:45:00	2.28	11.22	96.1
1/30/2008	5:00:00	2.25	11.20	95.9
1/30/2008	5:15:00	2.23	11.19	95.7
1/30/2008	5:30:00	2.21	11.19	95.7
1/30/2008	5:45:00	2.19	11.18	95.5
1/30/2008	6:00:00	2.17	11.16	95.3
1/30/2008	6:15:00	2.19	11.15	95.3
1/30/2008	6:30:00	2.22	11.14	95.2
1/30/2008	6:45:00	2.21	11.13	95.1
1/30/2008	7:00:00	2.21	11.12	95.1
1/30/2008	7:15:00	2.22	11.10	95.0
1/30/2008	7:30:00	2.23	11.10	94.9
1/30/2008	7:45:00	2.27	11.08	94.9
1/30/2008	8:00:00	2.28	11.09	95.0
1/30/2008	8:15:00	2.31	11.08	95.0
1/30/2008	8:30:00	2.38	11.06	95.0
1/30/2008	8:45:00	2.41	11.05	95.0
1/30/2008	9:00:00	2.46	11.03	94.9

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	9:15:00	2.48	11.03	95.0
1/30/2008	9:30:00	2.51	11.03	95.1
1/30/2008	9:45:00	2.55	11.03	95.2
1/30/2008	10:00:00	2.57	11.07	95.6
1/30/2008	10:15:00	2.63	11.08	95.8
1/30/2008	10:30:00	2.74	11.07	96.0
1/30/2008	10:45:00	2.84	11.07	96.3
1/30/2008	11:00:00	2.97	11.07	96.7
1/30/2008	11:15:00	3.08	11.10	97.2
1/30/2008	11:30:00	3.14	11.11	97.4
1/30/2008	11:45:00	3.19	11.12	97.6
1/30/2008	12:00:00	3.21	11.14	97.9
1/30/2008	12:15:00	3.19	11.16	98.0
1/30/2008	12:30:00	3.21	11.15	98.0
1/30/2008	12:45:00	3.21	11.18	98.2
1/30/2008	13:00:00	3.21	11.17	98.1
1/30/2008	13:15:00	3.29	11.18	98.4
1/30/2008	13:30:00	3.34	11.21	98.8
1/30/2008	13:45:00	3.24	11.24	98.9
1/30/2008	14:00:00	3.28	11.27	99.2
1/30/2008	14:15:00	3.28	11.30	99.4
1/30/2008	14:30:00	3.24	11.35	99.8
1/30/2008	14:45:00	3.23	11.37	99.9
1/30/2008	15:00:00	3.18	11.39	99.9
1/30/2008	15:15:00	3.17	11.42	100.3
1/30/2008	15:30:00	3.21	11.44	100.5
1/30/2008	15:45:00	3.17	11.50	100.9
1/30/2008	16:00:00	3.14	11.53	101.1
1/30/2008	16:15:00	3.10	11.55	101.1
1/30/2008	16:30:00	3.06	11.57	101.2
1/30/2008	16:45:00	3.09	11.60	101.6
1/30/2008	17:00:00	3.06	11.60	101.5
1/30/2008	17:15:00	3.01	11.59	101.3
1/30/2008	17:30:00	2.97	11.58	101.1
1/30/2008	17:45:00	2.91	11.58	100.9
1/30/2008	18:00:00	2.84	11.57	100.7
1/30/2008	18:15:00	2.80	11.57	100.5
1/30/2008	18:30:00	2.72	11.57	100.3
1/30/2008	18:45:00	2.69	11.57	100.2
1/30/2008	19:00:00	2.62	11.57	100.0
1/30/2008	19:15:00	2.59	11.56	99.9
1/30/2008	19:30:00	2.55	11.55	99.7
1/30/2008	19:45:00	2.52	11.55	99.6
1/30/2008	20:00:00	2.49	11.55	99.5
1/30/2008	20:15:00	2.45	11.55	99.4
1/30/2008	20:30:00	2.44	11.55	99.4

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	20:45:00	2.42	11.54	99.2
1/30/2008	21:00:00	2.39	11.55	99.3
1/30/2008	21:15:00	2.36	11.54	99.1
1/30/2008	21:30:00	2.33	11.54	99.0
1/30/2008	21:45:00	2.31	11.54	98.9
1/30/2008	22:00:00	2.29	11.53	98.8
1/30/2008	22:15:00	2.27	11.51	98.6
1/30/2008	22:30:00	2.23	11.50	98.4
1/30/2008	22:45:00	2.18	11.49	98.2
1/30/2008	23:00:00	2.13	11.48	98.0
1/30/2008	23:15:00	2.07	11.47	97.7
1/30/2008	23:30:00	2.01	11.46	97.4
1/30/2008	23:45:00	1.93	11.44	97.1
1/31/2008	0:00:00	1.88	11.43	96.9
1/31/2008	0:15:00	1.79	11.41	96.5
1/31/2008	0:30:00	1.72	11.42	96.4
1/31/2008	0:45:00	1.72	11.43	96.4
1/31/2008	1:00:00	1.73	11.43	96.4
1/31/2008	1:15:00	1.71	11.43	96.4
1/31/2008	1:30:00	1.69	11.41	96.2
1/31/2008	1:45:00	1.68	11.41	96.1
1/31/2008	2:00:00	1.66	11.40	96.0
1/31/2008	2:15:00	1.66	11.38	95.8
1/31/2008	2:30:00	1.62	11.37	95.7
1/31/2008	2:45:00	1.59	11.36	95.5
1/31/2008	3:00:00	1.58	11.35	95.3
1/31/2008	3:15:00	1.52	11.36	95.3
1/31/2008	3:30:00	1.51	11.37	95.4
1/31/2008	3:45:00	1.48	11.37	95.3
1/31/2008	4:00:00	1.47	11.38	95.3
1/31/2008	4:15:00	1.44	11.38	95.3
1/31/2008	4:30:00	1.40	11.38	95.2
1/31/2008	4:45:00	1.37	11.37	95.0
1/31/2008	5:00:00	1.33	11.37	94.9
1/31/2008	5:15:00	1.31	11.37	94.8
1/31/2008	5:30:00	1.30	11.37	94.8
1/31/2008	5:45:00	1.31	11.36	94.8
1/31/2008	6:00:00	1.29	11.36	94.7
1/31/2008	6:15:00	1.27	11.36	94.7
1/31/2008	6:30:00	1.24	11.36	94.6
1/31/2008	6:45:00	1.24	11.36	94.6
1/31/2008	7:00:00	1.24	11.35	94.5
1/31/2008	7:15:00	1.21	11.36	94.5
1/31/2008	7:30:00	1.21	11.36	94.5
1/31/2008	7:45:00	1.23	11.36	94.5
1/31/2008	8:00:00	1.23	11.37	94.6

Table 5.53. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2008	8:15:00	1.24	11.39	94.8
1/31/2008	8:30:00	1.28	11.38	94.9
1/31/2008	8:45:00	1.33	11.38	95.0
1/31/2008	9:00:00	1.35	11.40	95.2
1/31/2008	9:15:00	1.40	11.41	95.4
1/31/2008	9:30:00	1.49	11.42	95.8
1/31/2008	9:45:00	1.56	11.45	96.1
1/31/2008	10:00:00	1.67	11.47	96.6
1/31/2008	10:15:00	1.78	11.49	97.1
1/31/2008	10:30:00	1.92	11.52	97.7
1/31/2008	10:45:00	2.08	11.52	98.1

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**Part of S4-1-22-08**
Setup	**Date**	**(MMDDYY)**	**:**	**1/24/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**64933**
Starting	**Date**	**(MMDDYY)**	**:**	**1/24/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**100000**
Stopping	**Date**	**(MMDDYY)**	**:**	**1/31/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**300**
Circulator	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
1/26/2008	16:00:00	6.1	293	8.45	11.00	105.6
1/26/2008	16:15:00	6.0	293	8.45	10.95	105.1
1/26/2008	16:30:00	6.0	293	8.46	10.98	105.3
1/26/2008	16:45:00	5.9	293	8.47	11.01	105.3
1/26/2008	17:00:00	5.9	293	8.46	11.06	105.7
1/26/2008	17:15:00	5.8	293	8.45	11.10	105.7
1/26/2008	17:30:00	5.7	292	8.46	11.09	105.4
1/26/2008	17:45:00	5.5	291	8.46	11.07	104.8
1/26/2008	18:00:00	5.4	289	8.46	11.07	104.5
1/26/2008	18:15:00	5.3	288	8.46	11.04	103.9
1/26/2008	18:30:00	5.2	287	8.46	11.15	104.7
1/26/2008	18:45:00	5.1	285	8.46	11.06	103.6
1/26/2008	19:00:00	5.0	284	8.46	11.12	103.8
1/26/2008	19:15:00	4.9	284	8.47	11.00	102.4
1/26/2008	19:30:00	4.8	285	8.47	11.09	102.9
1/26/2008	19:45:00	4.6	286	8.47	11.13	103.0
1/26/2008	20:00:00	4.5	288	8.48	11.17	103.1
1/26/2008	20:15:00	4.4	290	8.48	11.00	101.3
1/26/2008	20:30:00	4.3	291	8.49	11.09	101.8
1/26/2008	20:45:00	4.2	292	8.50	11.13	101.9
1/26/2008	21:00:00	4.2	293	8.50	11.10	101.4
1/26/2008	21:15:00	4.1	293	8.51	11.17	101.9
1/26/2008	21:30:00	4.0	293	8.52	11.12	101.3
1/26/2008	21:45:00	4.0	294	8.53	11.08	100.8
1/26/2008	22:00:00	3.9	295	8.53	11.21	101.7
1/26/2008	22:15:00	3.8	296	8.54	11.18	101.2
1/26/2008	22:30:00	3.7	297	8.55	11.21	101.2
1/26/2008	22:45:00	3.6	298	8.56	11.18	100.8
1/26/2008	23:00:00	3.6	298	8.56	11.13	100.2
1/26/2008	23:15:00	3.5	298	8.57	11.23	100.9
1/26/2008	23:30:00	3.4	298	8.59	11.13	99.8
1/26/2008	23:45:00	3.4	298	8.59	11.10	99.3

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	0:00:00	3.3	299	8.60	11.11	99.3
1/27/2008	0:15:00	3.3	299	8.61	11.11	99.2
1/27/2008	0:30:00	3.2	299	8.62	11.22	100.0
1/27/2008	0:45:00	3.2	299	8.63	11.15	99.3
1/27/2008	1:00:00	3.1	299	8.64	11.04	98.2
1/27/2008	1:15:00	3.1	300	8.65	11.07	98.3
1/27/2008	1:30:00	3.0	300	8.66	11.08	98.3
1/27/2008	1:45:00	3.0	301	8.67	11.04	97.8
1/27/2008	2:00:00	3.0	302	8.67	11.09	98.1
1/27/2008	2:15:00	2.9	302	8.68	11.06	97.8
1/27/2008	2:30:00	2.9	302	8.69	11.22	99.0
1/27/2008	2:45:00	2.8	302	8.70	11.13	98.1
1/27/2008	3:00:00	2.8	302	8.70	11.05	97.3
1/27/2008	3:15:00	2.8	301	8.70	11.02	97.1
1/27/2008	3:30:00	2.7	300	8.71	11.00	96.8
1/27/2008	3:45:00	2.7	299	8.72	10.95	96.2
1/27/2008	4:00:00	2.6	299	8.72	11.04	96.9
1/27/2008	4:15:00	2.6	299	8.71	10.99	96.4
1/27/2008	4:30:00	2.6	299	8.72	11.03	96.7
1/27/2008	4:45:00	2.6	299	8.72	11.00	96.3
1/27/2008	5:00:00	2.5	299	8.73	11.04	96.6
1/27/2008	5:15:00	2.5	301	8.73	11.02	96.5
1/27/2008	5:30:00	2.5	300	8.73	11.00	96.3
1/27/2008	5:45:00	2.5	300	8.74	10.96	95.9
1/27/2008	6:00:00	2.5	301	8.74	10.99	96.2
1/27/2008	6:15:00	2.5	300	8.74	10.94	95.6
1/27/2008	6:30:00	2.5	300	8.74	10.93	95.5
1/27/2008	6:45:00	2.5	299	8.75	10.90	95.2
1/27/2008	7:00:00	2.5	299	8.75	11.05	96.7
1/27/2008	7:15:00	2.5	298	8.77	11.02	96.4
1/27/2008	7:30:00	2.5	297	8.78	11.02	96.4
1/27/2008	7:45:00	2.5	296	8.78	10.91	95.5
1/27/2008	8:00:00	2.6	296	8.79	10.93	95.7
1/27/2008	8:15:00	2.6	295	8.79	10.87	95.2
1/27/2008	8:30:00	2.6	294	8.79	10.87	95.3
1/27/2008	8:45:00	2.7	294	8.79	10.82	95.0
1/27/2008	9:00:00	2.7	294	8.80	10.89	95.8
1/27/2008	9:15:00	2.8	294	8.80	10.93	96.3
1/27/2008	9:30:00	2.8	294	8.79	10.91	96.2
1/27/2008	9:45:00	2.9	293	8.79	10.83	95.7
1/27/2008	10:00:00	3.0	293	8.78	10.95	97.1
1/27/2008	10:15:00	3.1	292	8.78	10.81	96.1
1/27/2008	10:30:00	3.2	291	8.78	10.80	96.2
1/27/2008	10:45:00	3.3	291	8.77	10.91	97.5
1/27/2008	11:00:00	3.4	291	8.76	10.94	97.9
1/27/2008	11:15:00	3.4	290	8.75	10.85	97.3

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	11:30:00	3.6	290	8.73	10.85	97.6
1/27/2008	11:45:00	3.6	290	8.72	10.96	98.7
1/27/2008	12:00:00	3.7	291	8.69	10.79	97.4
1/27/2008	12:15:00	3.7	290	8.68	10.99	99.3
1/27/2008	12:30:00	3.8	290	8.66	10.90	98.6
1/27/2008	12:45:00	3.8	290	8.64	10.87	98.5
1/27/2008	13:00:00	3.9	290	8.62	10.98	99.7
1/27/2008	13:15:00	4.0	290	8.60	11.11	101.1
1/27/2008	13:30:00	4.1	290	8.59	11.03	100.7
1/27/2008	13:45:00	4.2	290	8.57	11.08	101.3
1/27/2008	14:00:00	4.3	289	8.55	11.13	102.0
1/27/2008	14:15:00	4.4	289	8.54	11.08	102.0
1/27/2008	14:30:00	4.5	288	8.53	11.03	101.7
1/27/2008	14:45:00	4.5	288	8.52	10.91	100.6
1/27/2008	15:00:00	4.5	288	8.51	10.94	100.8
1/27/2008	15:15:00	4.5	287	8.50	11.10	102.4
1/27/2008	15:30:00	4.5	287	8.49	11.01	101.5
1/27/2008	15:45:00	4.5	288	8.49	11.20	103.3
1/27/2008	16:00:00	4.5	287	8.49	11.17	103.0
1/27/2008	16:15:00	4.5	288	8.48	11.24	103.5
1/27/2008	16:30:00	4.4	287	8.48	11.22	103.3
1/27/2008	16:45:00	4.4	287	8.48	11.18	102.8
1/27/2008	17:00:00	4.4	287	8.48	11.24	103.3
1/27/2008	17:15:00	4.4	287	8.48	11.24	103.3
1/27/2008	17:30:00	4.4	287	8.48	11.16	102.5
1/27/2008	17:45:00	4.3	286	8.48	11.13	102.2
1/27/2008	18:00:00	4.3	284	8.48	11.13	102.1
1/27/2008	18:15:00	4.3	284	8.48	11.18	102.6
1/27/2008	18:30:00	4.3	283	8.49	11.08	101.7
1/27/2008	18:45:00	4.3	283	8.48	11.16	102.3
1/27/2008	19:00:00	4.3	283	8.49	11.10	101.8
1/27/2008	19:15:00	4.3	284	8.49	11.17	102.4
1/27/2008	19:30:00	4.3	285	8.49	11.22	102.7
1/27/2008	19:45:00	4.2	286	8.50	11.09	101.5
1/27/2008	20:00:00	4.2	287	8.50	11.02	100.9
1/27/2008	20:15:00	4.2	288	8.50	11.06	101.2
1/27/2008	20:30:00	4.2	288	8.50	11.05	101.1
1/27/2008	20:45:00	4.2	290	8.50	11.11	101.6
1/27/2008	21:00:00	4.2	291	8.50	11.06	101.2
1/27/2008	21:15:00	4.2	292	8.53	10.98	100.4
1/27/2008	21:30:00	4.2	294	8.52	10.83	99.0
1/27/2008	21:45:00	4.2	293	8.52	10.89	99.5
1/27/2008	22:00:00	4.2	293	8.52	10.87	99.3
1/27/2008	22:15:00	4.2	293	8.53	10.81	98.8
1/27/2008	22:30:00	4.2	293	8.53	10.83	99.0
1/27/2008	22:45:00	4.2	293	8.54	10.74	98.1

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	23:00:00	4.2	293	8.53	10.78	98.5
1/27/2008	23:15:00	4.2	293	8.54	10.71	97.8
1/27/2008	23:30:00	4.1	294	8.54	10.81	98.7
1/27/2008	23:45:00	4.2	296	8.54	10.55	96.4
1/28/2008	0:00:00	4.2	297	8.54	10.66	97.4
1/28/2008	0:15:00	4.2	298	8.55	10.58	96.7
1/28/2008	0:30:00	4.2	299	8.56	10.51	96.1
1/28/2008	0:45:00	4.2	299	8.56	10.41	95.3
1/28/2008	1:00:00	4.2	301	8.56	10.49	95.9
1/28/2008	1:15:00	4.2	301	8.58	10.52	96.3
1/28/2008	1:30:00	4.2	301	8.57	10.43	95.5
1/28/2008	1:45:00	4.3	302	8.57	10.58	96.9
1/28/2008	2:00:00	4.3	301	8.57	10.52	96.4
1/28/2008	2:15:00	4.3	301	8.58	10.53	96.4
1/28/2008	2:30:00	4.3	301	8.59	10.60	97.1
1/28/2008	2:45:00	4.3	302	8.59	10.61	97.3
1/28/2008	3:00:00	4.3	301	8.59	10.46	95.9
1/28/2008	3:15:00	4.3	302	8.60	10.34	94.9
1/28/2008	3:30:00	4.3	302	8.60	10.37	95.2
1/28/2008	3:45:00	4.4	303	8.60	10.31	94.7
1/28/2008	4:00:00	4.4	303	8.60	10.31	94.8
1/28/2008	4:15:00	4.4	303	8.60	10.28	94.6
1/28/2008	4:30:00	4.5	304	8.59	10.43	96.1
1/28/2008	4:45:00	4.5	304	8.59	10.32	95.2
1/28/2008	5:00:00	4.6	303	8.59	10.32	95.3
1/28/2008	5:15:00	4.6	302	8.59	10.33	95.4
1/28/2008	5:30:00	4.6	301	8.59	10.31	95.3
1/28/2008	5:45:00	4.6	299	8.60	10.17	94.0
1/28/2008	6:00:00	4.6	278	8.60	9.28	85.8
1/28/2008	6:15:00	4.7	294	8.62	9.53	88.2
1/28/2008	6:30:00	4.7	296	8.63	10.08	93.3
1/28/2008	6:45:00	4.7	296	8.65	10.08	93.4
1/28/2008	7:00:00	4.7	295	8.65	10.22	94.7
1/28/2008	7:15:00	4.7	294	8.67	9.94	92.1
1/28/2008	7:30:00	4.7	294	8.65	10.07	93.4
1/28/2008	7:45:00	4.8	281	8.65	8.66	80.3
1/28/2008	8:00:00	4.8	292	8.66	9.99	92.7
1/28/2008	8:15:00	4.8	292	8.66	10.10	93.8
1/28/2008	8:30:00	4.7	293	8.64	9.90	91.8
1/28/2008	8:45:00	4.7	296	8.62	10.05	93.1
1/28/2008	9:00:00	4.5	298	8.56	9.77	90.1
1/28/2008	9:15:00	4.5	267	8.52	9.31	85.8
1/28/2008	9:30:00	4.8	188	8.57	9.55	88.7
1/28/2008	9:45:00	5.0	166	8.60	9.67	90.3
1/28/2008	10:00:00	5.3	153	8.66	9.78	91.9
1/28/2008	10:15:00	5.4	155	8.67	9.66	91.2

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	10:30:00	5.6	158	8.70	9.76	92.5
1/28/2008	10:45:00	5.8	160	8.69	9.80	93.3
1/28/2008	11:00:00	5.9	163	8.69	9.74	93.1
1/28/2008	11:15:00	6.0	171	8.67	9.82	94.1
1/28/2008	11:30:00	6.2	177	8.65	9.83	94.6
1/28/2008	11:45:00	6.3	185	8.65	9.60	92.7
1/28/2008	12:00:00	6.5	189	8.63	9.74	94.4
1/28/2008	12:15:00	6.6	197	8.61	9.59	93.4
1/28/2008	12:30:00	6.8	205	8.59	9.67	94.4
1/28/2008	12:45:00	6.9	219	8.57	9.74	95.3
1/28/2008	13:00:00	6.9	220	8.56	9.75	95.6
1/28/2008	13:15:00	7.0	225	8.53	9.73	95.5
1/28/2008	13:30:00	7.0	233	8.52	9.84	96.6
1/28/2008	13:45:00	7.1	233	8.53	9.90	97.5
1/28/2008	14:00:00	7.1	236	8.51	8.06	79.4
1/28/2008	14:15:00	7.2	231	8.50	7.12	70.3
1/28/2008	14:30:00	7.3	231	8.49	9.23	91.3
1/28/2008	14:45:00	7.4	216	8.48	8.41	83.4
1/28/2008	15:00:00	7.5	244	8.49	9.67	96.1
1/28/2008	15:15:00	7.6	247	8.47	9.70	96.6
1/28/2008	15:30:00	7.6	252	8.47	9.06	90.3
1/28/2008	15:45:00	7.6	257	8.49	8.83	88.1
1/28/2008	16:00:00	7.7	258	8.48	8.87	88.6
1/28/2008	16:15:00	7.7	258	8.49	8.48	84.7
1/28/2008	16:30:00	7.6	263	8.48	9.09	90.8
1/28/2008	16:45:00	7.6	263	8.49	8.45	84.3
1/28/2008	17:00:00	7.5	220	8.49	7.07	70.4
1/28/2008	17:15:00	7.4	198	8.47	8.19	81.4
1/28/2008	17:30:00	7.4	262	8.47	8.27	82.0
1/28/2008	17:45:00	7.3	156	8.47	8.26	81.6
1/28/2008	18:00:00	7.2	240	8.46	8.98	88.5
1/28/2008	18:15:00	7.0	269	8.48	8.19	80.6
1/28/2008	18:30:00	6.9	269	8.49	8.21	80.6
1/28/2008	18:45:00	6.8	270	8.50	7.91	77.3
1/28/2008	19:00:00	6.6	274	8.48	8.04	78.3
1/28/2008	19:15:00	6.5	270	8.47	8.14	79.1
1/28/2008	19:30:00	6.5	268	8.46	8.20	79.5
1/28/2008	19:45:00	6.4	267	8.46	8.91	86.1
1/28/2008	20:00:00	6.3	283	8.46	8.17	78.9
1/28/2008	20:15:00	6.2	269	8.50	7.43	71.6
1/28/2008	20:30:00	6.2	262	8.49	6.63	63.9
1/28/2008	20:45:00	6.1	228	8.50	8.35	80.3
1/28/2008	21:00:00	6.1	225	8.49	8.22	79.0
1/28/2008	21:15:00	6.1	213	8.48	8.00	76.8
1/28/2008	21:30:00	6.0	215	8.49	7.97	76.5
1/28/2008	21:45:00	6.0	196	8.50	7.49	71.7

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	22:00:00	5.9	195	8.52	7.64	73.0
1/28/2008	22:15:00	5.9	215	8.53	7.13	68.1
1/28/2008	22:30:00	5.8	213	8.51	7.91	75.4
1/28/2008	22:45:00	5.7	206	8.53	6.56	62.4
1/28/2008	23:00:00	5.6	222	8.53	8.46	80.3
1/28/2008	23:15:00	5.5	253	8.53	7.98	75.6
1/28/2008	23:30:00	5.1	257	8.53	8.15	76.3
1/28/2008	23:45:00	4.8	270	8.52	8.13	75.5
1/29/2008	0:00:00	4.8	248	8.55	7.88	73.2
1/29/2008	0:15:00	4.8	244	8.50	6.28	58.3
1/29/2008	0:30:00	4.5	195	8.56	8.25	76.1
1/29/2008	0:45:00	4.4	173	8.59	7.32	67.3
1/29/2008	1:00:00	4.3	245	8.59	8.51	78.1
1/29/2008	1:15:00	4.3	258	8.57	7.41	68.0
1/29/2008	1:30:00	4.3	257	8.53	6.15	56.5
1/29/2008	1:45:00	4.2	127	8.62	9.04	82.7
1/29/2008	2:00:00	4.2	287	8.61	7.98	72.9
1/29/2008	2:15:00	4.1	286	8.60	7.05	64.3
1/29/2008	2:30:00	4.0	125	8.61	7.53	68.5
1/29/2008	2:45:00	3.9	220	8.63	9.03	81.9
1/29/2008	3:00:00	3.8	283	8.63	8.85	80.1
1/29/2008	3:15:00	3.7	153	8.63	8.55	77.1
1/29/2008	3:30:00	3.6	167	8.64	8.26	74.3
1/29/2008	3:45:00	3.4	276	8.64	8.65	77.5
1/29/2008	4:00:00	3.3	287	8.63	8.35	74.6
1/29/2008	4:15:00	3.3	282	8.62	8.47	75.6
1/29/2008	4:30:00	3.2	278	8.62	8.50	75.6
1/29/2008	4:45:00	3.0	265	8.61	8.11	71.9
1/29/2008	5:00:00	2.9	264	8.60	8.12	71.8
1/29/2008	5:15:00	2.8	283	8.59	9.02	79.6
1/29/2008	5:30:00	2.7	284	8.58	8.74	76.9
1/29/2008	5:45:00	2.6	283	8.57	8.74	76.7
1/29/2008	6:00:00	2.6	283	8.58	8.57	75.1
1/29/2008	6:15:00	2.5	210	8.61	8.34	73.0
1/29/2008	6:30:00	2.4	179	8.61	8.86	77.3
1/29/2008	6:45:00	2.4	245	8.61	8.57	74.6
1/29/2008	7:00:00	2.3	276	8.61	8.27	71.9
1/29/2008	7:15:00	2.3	258	8.64	8.78	76.3
1/29/2008	7:30:00	2.2	251	8.65	9.13	79.2
1/29/2008	7:45:00	2.2	193	8.65	8.78	76.0
1/29/2008	8:00:00	2.1	187	8.65	8.80	76.1
1/29/2008	8:15:00	2.1	199	8.65	8.63	74.6
1/29/2008	8:30:00	2.1	254	8.67	8.82	76.2
1/29/2008	8:45:00	2.1	288	8.70	10.35	89.5
1/29/2008	9:00:00	2.1	289	8.68	10.53	91.0
1/29/2008	9:15:00	2.2	290	8.68	10.63	92.1

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	9:30:00	2.2	290	8.67	10.68	92.7
1/29/2008	9:45:00	2.3	292	8.69	10.72	93.2
1/29/2008	10:00:00	2.4	292	8.67	10.68	93.2
1/29/2008	10:15:00	2.5	292	8.66	10.63	92.9
1/29/2008	10:30:00	2.6	291	8.67	10.71	93.8
1/29/2008	10:45:00	2.7	290	8.65	10.70	94.0
1/29/2008	11:00:00	2.8	288	8.65	10.65	93.8
1/29/2008	11:15:00	2.9	288	8.64	10.66	94.3
1/29/2008	11:30:00	3.1	287	8.63	10.62	94.3
1/29/2008	11:45:00	3.2	288	8.62	10.64	94.9
1/29/2008	12:00:00	3.4	285	8.61	10.65	95.5
1/29/2008	12:15:00	3.6	282	8.59	10.67	96.1
1/29/2008	12:30:00	3.8	280	8.58	10.56	95.6
1/29/2008	12:45:00	4.0	278	8.57	10.68	97.3
1/29/2008	13:00:00	4.2	277	8.56	10.49	96.0
1/29/2008	13:15:00	4.4	276	8.53	10.56	97.2
1/29/2008	13:30:00	4.6	276	8.51	10.58	97.7
1/29/2008	13:45:00	4.7	277	8.49	10.45	96.8
1/29/2008	14:00:00	4.8	277	8.49	10.53	97.7
1/29/2008	14:15:00	4.9	277	8.47	10.60	98.6
1/29/2008	14:30:00	4.9	278	8.47	10.65	99.3
1/29/2008	14:45:00	5.0	276	8.46	10.64	99.4
1/29/2008	15:00:00	5.1	275	8.45	10.53	98.6
1/29/2008	15:15:00	5.2	273	8.46	10.47	98.3
1/29/2008	15:30:00	5.2	271	8.46	10.58	99.5
1/29/2008	15:45:00	5.3	268	8.45	10.49	98.8
1/29/2008	16:00:00	5.3	270	8.45	10.59	99.7
1/29/2008	16:15:00	5.2	275	8.45	10.61	99.6
1/29/2008	16:30:00	5.1	275	8.45	10.66	99.9
1/29/2008	16:45:00	5.1	275	8.45	10.58	99.0
1/29/2008	17:00:00	5.0	274	8.46	10.54	98.4
1/29/2008	17:15:00	4.9	273	8.46	10.54	98.1
1/29/2008	17:30:00	4.8	274	8.46	10.52	97.6
1/29/2008	17:45:00	4.6	273	8.46	10.49	97.0
1/29/2008	18:00:00	4.5	273	8.46	10.77	99.4
1/29/2008	18:15:00	4.4	273	8.47	10.78	99.2
1/29/2008	18:30:00	4.3	272	8.47	10.74	98.4
1/29/2008	18:45:00	4.1	271	8.47	10.84	99.0
1/29/2008	19:00:00	4.0	271	8.48	10.82	98.5
1/29/2008	19:15:00	3.9	272	8.48	10.94	99.4
1/29/2008	19:30:00	3.9	272	8.48	10.75	97.4
1/29/2008	19:45:00	3.7	272	8.49	10.82	97.7
1/29/2008	20:00:00	3.6	271	8.49	10.83	97.6
1/29/2008	20:15:00	3.5	272	8.50	10.85	97.6
1/29/2008	20:30:00	3.5	271	8.50	10.90	97.8
1/29/2008	20:45:00	3.4	271	8.51	10.93	97.9

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	21:00:00	3.3	271	8.52	10.93	97.6
1/29/2008	21:15:00	3.2	271	8.53	10.83	96.5
1/29/2008	21:30:00	3.1	271	8.53	11.07	98.5
1/29/2008	21:45:00	3.1	272	8.55	11.01	97.7
1/29/2008	22:00:00	3.0	271	8.55	11.06	97.9
1/29/2008	22:15:00	3.0	271	8.57	10.94	96.8
1/29/2008	22:30:00	2.9	273	8.58	10.94	96.6
1/29/2008	22:45:00	2.8	274	8.60	11.04	97.3
1/29/2008	23:00:00	2.7	274	8.60	11.03	97.0
1/29/2008	23:15:00	2.7	275	8.61	10.92	96.0
1/29/2008	23:30:00	2.6	277	8.62	10.91	95.8
1/29/2008	23:45:00	2.6	280	8.63	11.00	96.4
1/30/2008	0:00:00	2.6	283	8.62	10.97	96.0
1/30/2008	0:15:00	2.5	286	8.63	11.07	96.8
1/30/2008	0:30:00	2.4	291	8.65	10.94	95.4
1/30/2008	0:45:00	2.4	298	8.65	10.95	95.5
1/30/2008	1:00:00	2.4	308	8.65	10.89	94.9
1/30/2008	1:15:00	2.3	318	8.65	10.97	95.4
1/30/2008	1:30:00	2.3	325	8.66	10.83	94.1
1/30/2008	1:45:00	2.2	328	8.67	10.94	94.9
1/30/2008	2:00:00	2.2	326	8.67	10.89	94.4
1/30/2008	2:15:00	2.2	324	8.68	10.92	94.6
1/30/2008	2:30:00	2.1	324	8.68	10.95	94.7
1/30/2008	2:45:00	2.1	322	8.68	10.89	94.2
1/30/2008	3:00:00	2.1	321	8.69	10.86	93.8
1/30/2008	3:15:00	2.1	320	8.69	10.88	94.0
1/30/2008	3:30:00	2.0	318	8.70	10.82	93.4
1/30/2008	3:45:00	2.0	315	8.70	10.78	92.9
1/30/2008	4:00:00	2.0	313	8.70	10.86	93.5
1/30/2008	4:15:00	2.0	311	8.71	10.09	86.9
1/30/2008	4:30:00	1.9	310	8.72	9.99	86.0
1/30/2008	4:45:00	1.9	309	8.72	10.11	87.0
1/30/2008	5:00:00	1.9	309	8.73	10.45	89.8
1/30/2008	5:15:00	1.9	308	8.73	10.63	91.3
1/30/2008	5:30:00	1.8	307	8.73	10.70	91.8
1/30/2008	5:45:00	1.8	306	8.74	10.09	86.6
1/30/2008	6:00:00	1.8	303	8.74	10.45	89.6
1/30/2008	6:15:00	1.8	301	8.74	10.66	91.5
1/30/2008	6:30:00	1.8	299	8.75	10.58	90.8
1/30/2008	6:45:00	1.8	298	8.75	10.31	88.5
1/30/2008	7:00:00	1.8	297	8.75	10.64	91.4
1/30/2008	7:15:00	1.9	295	8.76	10.45	89.7
1/30/2008	7:30:00	1.9	294	8.75	10.54	90.6
1/30/2008	7:45:00	1.9	293	8.76	10.19	87.6
1/30/2008	8:00:00	1.9	292	8.76	10.46	89.9
1/30/2008	8:15:00	1.9	291	8.75	10.01	86.1

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	8:30:00	2.0	290	8.75	10.20	87.9
1/30/2008	8:45:00	2.0	288	8.74	10.31	89.0
1/30/2008	9:00:00	2.1	286	8.74	10.19	88.1
1/30/2008	9:15:00	2.1	286	8.74	10.25	88.6
1/30/2008	9:30:00	2.1	286	8.73	9.62	83.2
1/30/2008	9:45:00	2.2	285	8.72	9.95	86.2
1/30/2008	10:00:00	2.2	286	8.71	10.28	89.1
1/30/2008	10:15:00	2.3	286	8.69	10.32	89.7
1/30/2008	10:30:00	2.4	285	8.67	10.49	91.4
1/30/2008	10:45:00	2.5	285	8.66	9.98	87.2
1/30/2008	11:00:00	2.6	284	8.64	10.68	93.6
1/30/2008	11:15:00	2.7	284	8.62	10.29	90.5
1/30/2008	11:30:00	2.8	283	8.59	10.64	93.7
1/30/2008	11:45:00	2.8	284	8.58	10.63	93.7
1/30/2008	12:00:00	2.8	284	8.56	10.66	94.0
1/30/2008	12:15:00	2.8	283	8.54	10.40	91.7
1/30/2008	12:30:00	2.8	282	8.51	10.24	90.4
1/30/2008	12:45:00	2.8	282	8.50	10.42	91.9
1/30/2008	13:00:00	2.8	280	8.48	10.55	93.1
1/30/2008	13:15:00	2.9	280	8.47	10.47	92.6
1/30/2008	13:30:00	3.0	280	8.46	10.31	91.3
1/30/2008	13:45:00	2.9	281	8.45	10.34	91.3
1/30/2008	14:00:00	2.9	281	8.44	10.48	92.6
1/30/2008	14:15:00	2.9	281	8.43	10.50	92.8
1/30/2008	14:30:00	2.9	280	8.42	10.77	95.1
1/30/2008	14:45:00	2.9	280	8.42	10.48	92.5
1/30/2008	15:00:00	2.8	278	8.42	10.44	92.0
1/30/2008	15:15:00	2.8	277	8.42	10.65	93.9
1/30/2008	15:30:00	2.8	277	8.41	10.92	96.3
1/30/2008	15:45:00	2.8	276	8.41	10.89	95.9
1/30/2008	16:00:00	2.8	275	8.40	11.17	98.3
1/30/2008	16:15:00	2.7	274	8.40	11.14	97.9
1/30/2008	16:30:00	2.7	273	8.40	11.15	98.0
1/30/2008	16:45:00	2.7	274	8.41	11.27	99.1
1/30/2008	17:00:00	2.7	273	8.41	11.19	98.3
1/30/2008	17:15:00	2.7	273	8.41	11.18	98.1
1/30/2008	17:30:00	2.6	272	8.41	11.13	97.6
1/30/2008	17:45:00	2.5	272	8.40	11.10	97.1
1/30/2008	18:00:00	2.5	273	8.40	11.00	96.1
1/30/2008	18:15:00	2.4	273	8.40	10.95	95.5
1/30/2008	18:30:00	2.4	273	8.41	10.73	93.4
1/30/2008	18:45:00	2.3	273	8.41	10.98	95.4
1/30/2008	19:00:00	2.3	272	8.42	10.96	95.2
1/30/2008	19:15:00	2.2	273	8.42	10.82	93.9
1/30/2008	19:30:00	2.2	273	8.42	10.58	91.7
1/30/2008	19:45:00	2.1	273	8.42	10.56	91.4

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	20:00:00	2.1	273	8.43	10.60	91.7
1/30/2008	20:15:00	2.1	273	8.42	10.60	91.6
1/30/2008	20:30:00	2.1	273	8.43	10.72	92.6
1/30/2008	20:45:00	2.0	273	8.43	10.74	92.7
1/30/2008	21:00:00	2.0	273	8.44	10.98	94.7
1/30/2008	21:15:00	2.0	273	8.44	10.71	92.3
1/30/2008	21:30:00	2.0	272	8.45	10.83	93.3
1/30/2008	21:45:00	1.9	272	8.45	10.79	92.9
1/30/2008	22:00:00	1.9	272	8.45	10.76	92.6
1/30/2008	22:15:00	1.9	272	8.46	10.86	93.3
1/30/2008	22:30:00	1.9	272	8.46	10.72	92.1
1/30/2008	22:45:00	1.8	271	8.46	10.40	89.2
1/30/2008	23:00:00	1.8	272	8.46	10.47	89.7
1/30/2008	23:15:00	1.7	272	8.48	10.69	91.4
1/30/2008	23:30:00	1.6	273	8.47	10.78	92.0
1/30/2008	23:45:00	1.6	276	8.48	10.94	93.2
1/31/2008	0:00:00	1.5	280	8.49	10.96	93.2
1/31/2008	0:15:00	1.4	284	8.50	10.96	93.0
1/31/2008	0:30:00	1.3	150	8.52	10.41	88.1
1/31/2008	0:45:00	1.4	132	8.51	9.00	76.1
1/31/2008	1:00:00	1.4	285	8.51	9.45	80.0
1/31/2008	1:15:00	1.3	293	8.53	9.50	80.4
1/31/2008	1:30:00	1.3	294	8.54	9.22	78.0
1/31/2008	1:45:00	1.3	294	8.55	7.53	63.7
1/31/2008	2:00:00	1.3	294	8.55	7.40	62.5
1/31/2008	2:15:00	1.3	295	8.56	6.70	56.7
1/31/2008	2:30:00	1.2	294	8.56	7.00	59.1
1/31/2008	2:45:00	1.2	294	8.56	7.66	64.6
1/31/2008	3:00:00	1.2	294	8.58	6.87	57.9
1/31/2008	3:15:00	1.1	294	8.55	7.76	65.4
1/31/2008	3:30:00	1.1	293	8.56	6.47	54.5
1/31/2008	3:45:00	1.1	292	8.50	5.84	49.1
1/31/2008	4:00:00	1.1	291	8.48	5.40	45.4
1/31/2008	4:15:00	1.1	291	8.48	5.25	44.1
1/31/2008	4:30:00	1.0	289	8.48	6.04	50.7
1/31/2008	4:45:00	1.0	288	8.47	5.33	44.7
1/31/2008	5:00:00	1.0	286	8.52	5.70	47.8
1/31/2008	5:15:00	1.0	285	8.47	5.22	43.7
1/31/2008	5:30:00	0.9	284	8.48	5.76	48.2
1/31/2008	5:45:00	0.9	284	8.47	6.10	51.1
1/31/2008	6:00:00	0.9	284	8.46	6.00	50.2
1/31/2008	6:15:00	0.9	279	8.50	5.74	48.0
1/31/2008	6:30:00	0.9	257	8.52	5.32	44.4
1/31/2008	6:45:00	0.9	282	8.56	6.96	58.2
1/31/2008	7:00:00	0.9	270	8.51	6.27	52.4
1/31/2008	7:15:00	0.8	269	8.54	6.17	51.5

Table 5.54. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2008	7:30:00	0.8	251	8.56	6.03	50.3
1/31/2008	7:45:00	0.8	271	8.58	6.28	52.4
1/31/2008	8:00:00	0.9	158	8.59	5.71	47.7
1/31/2008	8:15:00	0.9	269	8.59	5.17	43.2
1/31/2008	8:30:00	0.9	269	8.59	5.79	48.4
1/31/2008	8:45:00	0.9	277	8.59	6.55	54.9
1/31/2008	9:00:00	1.0	266	8.59	6.64	55.6
1/31/2008	9:15:00	1.0	254	8.59	7.13	59.8
1/31/2008	9:30:00	1.1	141	8.59	6.30	52.9
1/31/2008	9:45:00	1.2	275	8.59	5.46	46.0
1/31/2008	10:00:00	1.3	275	8.57	5.96	50.4
1/31/2008	10:15:00	1.4	275	8.63	5.76	48.9
1/31/2008	10:30:00	1.6	275	8.63	6.08	51.8
1/31/2008	10:45:00	1.7	274	8.61	6.89	58.9

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Athena**
Log File Name			**:**	**site3_1-26-2008A**
Setup Date (MMDDYY)			**:**	**1/26/2008**
Setup Time (HHMMSS)			**:**	**13:03:35**
Starting Date (MMDDYY)			**:**	**1/26/2008**
Starting Time (HHMMSS)			**:**	**14:00:00**
Stopping Date (MMDDYY)			**:**	**2/11/2008**
Stopping Time (HHMMSS)			**:**	**9:53:54**
Measurement Interval (HHMMSS)			**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
1/26/2008	14:00:00	5.64	11.17	104.6
1/26/2008	14:15:00	5.84	11.15	105.0
1/26/2008	14:30:00	6.03	11.11	105.1
1/26/2008	14:45:00	6.22	11.07	105.2
1/26/2008	15:00:00	6.33	11.04	105.2
1/26/2008	15:15:00	6.46	10.99	105.1
1/26/2008	15:30:00	6.53	10.95	104.9
1/26/2008	15:45:00	6.56	10.92	104.6
1/26/2008	16:00:00	6.61	10.87	104.3
1/26/2008	16:15:00	6.64	10.83	104.0
1/26/2008	16:30:00	6.62	10.80	103.6
1/26/2008	16:45:00	6.59	10.76	103.2
1/26/2008	17:00:00	6.54	10.73	102.8
1/26/2008	17:15:00	6.44	10.71	102.3
1/26/2008	17:30:00	6.37	10.68	101.9
1/26/2008	17:45:00	6.29	10.65	101.4
1/26/2008	18:00:00	6.23	10.62	101.0
1/26/2008	18:15:00	6.18	10.60	100.7
1/26/2008	18:30:00	6.09	10.59	100.3
1/26/2008	18:45:00	6.00	10.58	99.9
1/26/2008	19:00:00	5.92	10.56	99.6
1/26/2008	19:15:00	5.84	10.54	99.2
1/26/2008	19:30:00	5.78	10.53	99.0
1/26/2008	19:45:00	5.69	10.52	98.7
1/26/2008	20:00:00	5.63	10.51	98.4
1/26/2008	20:15:00	5.59	10.51	98.3
1/26/2008	20:30:00	5.52	10.51	98.1
1/26/2008	20:45:00	5.45	10.50	97.8
1/26/2008	21:00:00	5.38	10.50	97.7
1/26/2008	21:15:00	5.28	10.51	97.5
1/26/2008	21:30:00	5.20	10.51	97.3
1/26/2008	21:45:00	5.13	10.52	97.2
1/26/2008	22:00:00	5.06	10.52	97.0
1/26/2008	22:15:00	5.00	10.52	96.9

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2008	22:30:00	4.94	10.53	96.8
1/26/2008	22:45:00	4.87	10.53	96.6
1/26/2008	23:00:00	4.82	10.53	96.6
1/26/2008	23:15:00	4.77	10.53	96.4
1/26/2008	23:30:00	4.72	10.53	96.3
1/26/2008	23:45:00	4.68	10.54	96.2
1/27/2008	0:00:00	4.63	10.54	96.2
1/27/2008	0:15:00	4.60	10.54	96.1
1/27/2008	0:30:00	4.57	10.54	96.0
1/27/2008	0:45:00	4.53	10.55	96.0
1/27/2008	1:00:00	4.48	10.56	96.0
1/27/2008	1:15:00	4.43	10.57	95.9
1/27/2008	1:30:00	4.39	10.57	95.8
1/27/2008	1:45:00	4.35	10.58	95.8
1/27/2008	2:00:00	4.31	10.58	95.7
1/27/2008	2:15:00	4.27	10.60	95.7
1/27/2008	2:30:00	4.20	10.61	95.7
1/27/2008	2:45:00	4.13	10.62	95.6
1/27/2008	3:00:00	4.10	10.64	95.7
1/27/2008	3:15:00	4.03	10.65	95.7
1/27/2008	3:30:00	3.98	10.67	95.6
1/27/2008	3:45:00	3.92	10.68	95.7
1/27/2008	4:00:00	3.83	10.70	95.6
1/27/2008	4:15:00	3.77	10.72	95.6
1/27/2008	4:30:00	3.68	10.74	95.5
1/27/2008	4:45:00	3.63	10.75	95.5
1/27/2008	5:00:00	3.58	10.77	95.6
1/27/2008	5:15:00	3.49	10.79	95.5
1/27/2008	5:30:00	3.43	10.81	95.5
1/27/2008	5:45:00	3.35	10.84	95.6
1/27/2008	6:00:00	3.26	10.86	95.5
1/27/2008	6:15:00	3.17	10.88	95.5
1/27/2008	6:30:00	3.11	10.91	95.6
1/27/2008	6:45:00	2.99	10.94	95.5
1/27/2008	7:00:00	2.92	10.97	95.6
1/27/2008	7:15:00	2.84	11.00	95.7
1/27/2008	7:30:00	2.76	11.03	95.7
1/27/2008	7:45:00	2.73	11.06	95.9
1/27/2008	8:00:00	2.71	11.09	96.1
1/27/2008	8:15:00	2.67	11.12	96.2
1/27/2008	8:30:00	2.64	11.15	96.5
1/27/2008	8:45:00	2.60	11.18	96.6
1/27/2008	9:00:00	2.56	11.21	96.8
1/27/2008	9:15:00	2.56	11.24	97.0
1/27/2008	9:30:00	2.57	11.26	97.3

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	9:45:00	2.60	11.29	97.5
1/27/2008	10:00:00	2.67	11.31	97.9
1/27/2008	10:15:00	2.79	11.33	98.4
1/27/2008	10:30:00	2.94	11.35	99.0
1/27/2008	10:45:00	3.04	11.37	99.4
1/27/2008	11:00:00	3.13	11.39	99.8
1/27/2008	11:15:00	3.22	11.40	100.2
1/27/2008	11:30:00	3.32	11.40	100.4
1/27/2008	11:45:00	3.42	11.40	100.7
1/27/2008	12:00:00	3.51	11.41	101.0
1/27/2008	12:15:00	3.62	11.40	101.3
1/27/2008	12:30:00	3.76	11.38	101.5
1/27/2008	12:45:00	3.92	11.37	101.8
1/27/2008	13:00:00	4.01	11.36	102.0
1/27/2008	13:15:00	4.16	11.35	102.2
1/27/2008	13:30:00	4.48	11.30	102.7
1/27/2008	13:45:00	4.71	11.26	103.0
1/27/2008	14:00:00	4.87	11.23	103.1
1/27/2008	14:15:00	5.00	11.21	103.2
1/27/2008	14:30:00	5.03	11.18	103.1
1/27/2008	14:45:00	5.04	11.16	102.9
1/27/2008	15:00:00	5.03	11.14	102.7
1/27/2008	15:15:00	5.06	11.10	102.4
1/27/2008	15:30:00	5.13	11.06	102.2
1/27/2008	15:45:00	5.18	11.03	102.1
1/27/2008	16:00:00	5.23	10.99	101.9
1/27/2008	16:15:00	5.26	10.96	101.6
1/27/2008	16:30:00	5.29	10.93	101.4
1/27/2008	16:45:00	5.31	10.90	101.2
1/27/2008	17:00:00	5.28	10.88	100.9
1/27/2008	17:15:00	5.27	10.86	100.7
1/27/2008	17:30:00	5.25	10.83	100.4
1/27/2008	17:45:00	5.24	10.81	100.1
1/27/2008	18:00:00	5.25	10.79	100.0
1/27/2008	18:15:00	5.25	10.77	99.8
1/27/2008	18:30:00	5.23	10.75	99.6
1/27/2008	18:45:00	5.21	10.74	99.4
1/27/2008	19:00:00	5.21	10.72	99.3
1/27/2008	19:15:00	5.18	10.72	99.1
1/27/2008	19:30:00	5.16	10.71	99.0
1/27/2008	19:45:00	5.14	10.70	98.9
1/27/2008	20:00:00	5.10	10.69	98.7
1/27/2008	20:15:00	5.09	10.68	98.6
1/27/2008	20:30:00	5.08	10.68	98.5
1/27/2008	20:45:00	5.07	10.67	98.4

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	21:00:00	5.08	10.66	98.3
1/27/2008	21:15:00	5.08	10.65	98.3
1/27/2008	21:30:00	5.07	10.64	98.2
1/27/2008	21:45:00	5.07	10.63	98.1
1/27/2008	22:00:00	5.07	10.62	98.0
1/27/2008	22:15:00	5.07	10.60	97.8
1/27/2008	22:30:00	5.08	10.59	97.7
1/27/2008	22:45:00	5.09	10.58	97.7
1/27/2008	23:00:00	5.12	10.56	97.6
1/27/2008	23:15:00	5.13	10.55	97.5
1/27/2008	23:30:00	5.16	10.54	97.4
1/27/2008	23:45:00	5.17	10.52	97.3
1/28/2008	0:00:00	5.18	10.51	97.2
1/28/2008	0:15:00	5.19	10.50	97.2
1/28/2008	0:30:00	5.21	10.49	97.1
1/28/2008	0:45:00	5.23	10.48	97.1
1/28/2008	1:00:00	5.24	10.47	97.1
1/28/2008	1:15:00	5.27	10.46	97.0
1/28/2008	1:30:00	5.30	10.45	97.0
1/28/2008	1:45:00	5.29	10.45	97.0
1/28/2008	2:00:00	5.32	10.44	96.9
1/28/2008	2:15:00	5.29	10.44	96.9
1/28/2008	2:30:00	5.32	10.44	97.0
1/28/2008	2:45:00	5.38	10.44	97.1
1/28/2008	3:00:00	5.41	10.45	97.3
1/28/2008	3:15:00	5.44	10.45	97.4
1/28/2008	3:30:00	5.46	10.45	97.4
1/28/2008	3:45:00	5.47	10.45	97.4
1/28/2008	4:00:00	5.51	10.44	97.4
1/28/2008	4:15:00	5.51	10.45	97.5
1/28/2008	4:30:00	5.52	10.45	97.6
1/28/2008	4:45:00	5.53	10.45	97.6
1/28/2008	5:00:00	5.51	10.45	97.6
1/28/2008	5:15:00	5.51	10.45	97.6
1/28/2008	5:30:00	5.53	10.45	97.6
1/28/2008	5:45:00	5.52	10.46	97.6
1/28/2008	6:00:00	5.50	10.46	97.6
1/28/2008	6:15:00	5.45	10.47	97.5
1/28/2008	6:30:00	5.41	10.48	97.5
1/28/2008	6:45:00	5.35	10.49	97.5
1/28/2008	7:00:00	5.28	10.49	97.3
1/28/2008	7:15:00	5.21	10.50	97.2
1/28/2008	7:30:00	5.13	10.51	97.1
1/28/2008	7:45:00	5.07	10.53	97.1
1/28/2008	8:00:00	5.03	10.54	97.2

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	8:15:00	5.03	10.56	97.3
1/28/2008	8:30:00	5.01	10.57	97.4
1/28/2008	8:45:00	5.06	10.59	97.7
1/28/2008	9:00:00	5.18	10.61	98.1
1/28/2008	9:15:00	5.28	10.63	98.6
1/28/2008	9:30:00	5.44	10.63	99.0
1/28/2008	9:45:00	5.59	10.64	99.5
1/28/2008	10:00:00	5.75	10.63	99.8
1/28/2008	10:15:00	5.92	10.63	100.2
1/28/2008	10:30:00	5.96	10.63	100.4
1/28/2008	10:45:00	6.18	10.62	100.9
1/28/2008	11:00:00	6.36	10.60	101.1
1/28/2008	11:15:00	6.53	10.59	101.4
1/28/2008	11:30:00	6.76	10.57	101.8
1/28/2008	11:45:00	6.96	10.54	102.0
1/28/2008	12:00:00	7.21	10.50	102.2
1/28/2008	12:15:00	7.43	10.47	102.6
1/28/2008	12:30:00	7.65	10.43	102.8
1/28/2008	12:45:00	7.84	10.40	102.9
1/28/2008	13:00:00	8.02	10.37	103.1
1/28/2008	13:15:00	8.19	10.33	103.1
1/28/2008	13:30:00	8.39	10.27	103.0
1/28/2008	13:45:00	8.58	10.23	103.1
1/28/2008	14:00:00	8.74	10.20	103.2
1/28/2008	14:15:00	8.89	10.15	103.1
1/28/2008	14:30:00	8.99	10.11	102.9
1/28/2008	14:45:00	9.10	10.07	102.8
1/28/2008	15:00:00	9.18	10.04	102.7
1/28/2008	15:15:00	9.22	10.01	102.5
1/28/2008	15:30:00	9.24	9.98	102.2
1/28/2008	15:45:00	9.23	9.94	101.8
1/28/2008	16:00:00	9.22	9.91	101.4
1/28/2008	16:15:00	9.17	9.88	101.0
1/28/2008	16:30:00	9.10	9.85	100.5
1/28/2008	16:45:00	9.01	9.82	100.0
1/28/2008	17:00:00	8.89	9.80	99.5
1/28/2008	17:15:00	8.77	9.79	99.1
1/28/2008	17:30:00	8.66	9.77	98.6
1/28/2008	17:45:00	8.54	9.75	98.2
1/28/2008	18:00:00	8.43	9.75	97.9
1/28/2008	18:15:00	8.34	9.74	97.6
1/28/2008	18:30:00	8.21	9.74	97.3
1/28/2008	18:45:00	8.11	9.75	97.1
1/28/2008	19:00:00	7.97	9.75	96.8
1/28/2008	19:15:00	7.84	9.76	96.6

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	19:30:00	7.73	9.76	96.4
1/28/2008	19:45:00	7.61	9.77	96.2
1/28/2008	20:00:00	7.49	9.78	95.9
1/28/2008	20:15:00	7.40	9.79	95.8
1/28/2008	20:30:00	7.30	9.80	95.7
1/28/2008	20:45:00	7.21	9.81	95.5
1/28/2008	21:00:00	7.11	9.82	95.4
1/28/2008	21:15:00	7.00	9.83	95.3
1/28/2008	21:30:00	6.88	9.84	95.1
1/28/2008	21:45:00	6.77	9.85	95.0
1/28/2008	22:00:00	6.68	9.87	94.9
1/28/2008	22:15:00	6.61	9.89	94.9
1/28/2008	22:30:00	6.52	9.90	94.8
1/28/2008	22:45:00	6.46	9.91	94.7
1/28/2008	23:00:00	6.40	9.92	94.7
1/28/2008	23:15:00	6.34	9.93	94.6
1/28/2008	23:30:00	6.31	9.94	94.7
1/28/2008	23:45:00	6.25	9.94	94.6
1/29/2008	0:00:00	5.94	9.92	93.6
1/29/2008	0:15:00	5.84	9.92	93.4
1/29/2008	0:30:00	5.76	9.92	93.1
1/29/2008	0:45:00	5.63	9.90	92.7
1/29/2008	1:00:00	5.60	9.89	92.5
1/29/2008	1:15:00	5.57	9.88	92.3
1/29/2008	1:30:00	5.47	9.88	92.1
1/29/2008	1:45:00	5.42	9.88	92.0
1/29/2008	2:00:00	5.33	9.88	91.8
1/29/2008	2:15:00	5.28	9.91	91.9
1/29/2008	2:30:00	5.17	9.93	91.9
1/29/2008	2:45:00	5.03	9.96	91.8
1/29/2008	3:00:00	4.92	9.99	91.8
1/29/2008	3:15:00	4.81	10.02	91.9
1/29/2008	3:30:00	4.68	10.06	91.9
1/29/2008	3:45:00	4.57	10.10	91.9
1/29/2008	4:00:00	4.45	10.13	91.9
1/29/2008	4:15:00	4.34	10.16	92.0
1/29/2008	4:30:00	4.20	10.20	92.0
1/29/2008	4:45:00	4.04	10.25	92.0
1/29/2008	5:00:00	3.89	10.30	92.1
1/29/2008	5:15:00	3.76	10.33	92.1
1/29/2008	5:30:00	3.64	10.37	92.2
1/29/2008	5:45:00	3.50	10.41	92.2
1/29/2008	6:00:00	3.36	10.46	92.3
1/29/2008	6:15:00	3.23	10.50	92.3
1/29/2008	6:30:00	3.10	10.54	92.3

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	6:45:00	2.95	10.57	92.2
1/29/2008	7:00:00	2.85	10.62	92.4
1/29/2008	7:15:00	2.72	10.66	92.4
1/29/2008	7:30:00	2.60	10.70	92.4
1/29/2008	7:45:00	2.49	10.74	92.5
1/29/2008	8:00:00	2.39	10.78	92.6
1/29/2008	8:15:00	2.34	10.83	92.9
1/29/2008	8:30:00	2.35	10.88	93.3
1/29/2008	8:45:00	2.34	10.93	93.8
1/29/2008	9:00:00	2.36	10.98	94.3
1/29/2008	9:15:00	2.37	11.04	94.8
1/29/2008	9:30:00	2.46	11.09	95.5
1/29/2008	9:45:00	2.53	11.14	96.1
1/29/2008	10:00:00	2.66	11.19	96.8
1/29/2008	10:15:00	2.76	11.22	97.4
1/29/2008	10:30:00	2.88	11.26	98.0
1/29/2008	10:45:00	3.07	11.28	98.7
1/29/2008	11:00:00	3.25	11.30	99.4
1/29/2008	11:15:00	3.43	11.31	100.0
1/29/2008	11:30:00	3.65	11.32	100.6
1/29/2008	11:45:00	3.89	11.32	101.2
1/29/2008	12:00:00	4.12	11.30	101.7
1/29/2008	12:15:00	4.35	11.28	102.2
1/29/2008	12:30:00	4.58	11.27	102.6
1/29/2008	12:45:00	4.84	11.24	103.1
1/29/2008	13:00:00	5.05	11.21	103.4
1/29/2008	13:15:00	5.28	11.17	103.6
1/29/2008	13:30:00	5.48	11.14	103.9
1/29/2008	13:45:00	5.66	11.11	104.1
1/29/2008	14:00:00	5.84	11.07	104.2
1/29/2008	14:15:00	6.00	11.04	104.3
1/29/2008	14:30:00	6.15	11.00	104.3
1/29/2008	14:45:00	6.29	10.95	104.2
1/29/2008	15:00:00	6.40	10.91	104.1
1/29/2008	15:15:00	6.46	10.87	103.9
1/29/2008	15:30:00	6.52	10.83	103.7
1/29/2008	15:45:00	6.52	10.80	103.5
1/29/2008	16:00:00	6.52	10.76	103.1
1/29/2008	16:15:00	6.51	10.73	102.7
1/29/2008	16:30:00	6.41	10.70	102.2
1/29/2008	16:45:00	6.33	10.68	101.7
1/29/2008	17:00:00	6.19	10.65	101.1
1/29/2008	17:15:00	6.09	10.63	100.7
1/29/2008	17:30:00	5.96	10.61	100.2
1/29/2008	17:45:00	5.84	10.60	99.7

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	18:00:00	5.72	10.58	99.2
1/29/2008	18:15:00	5.63	10.57	98.9
1/29/2008	18:30:00	5.53	10.55	98.5
1/29/2008	18:45:00	5.42	10.54	98.2
1/29/2008	19:00:00	5.34	10.53	97.9
1/29/2008	19:15:00	5.23	10.53	97.5
1/29/2008	19:30:00	5.11	10.53	97.3
1/29/2008	19:45:00	5.01	10.53	97.0
1/29/2008	20:00:00	4.91	10.53	96.8
1/29/2008	20:15:00	4.79	10.54	96.6
1/29/2008	20:30:00	4.69	10.55	96.3
1/29/2008	20:45:00	4.59	10.55	96.1
1/29/2008	21:00:00	4.49	10.56	96.0
1/29/2008	21:15:00	4.39	10.56	95.7
1/29/2008	21:30:00	4.31	10.57	95.6
1/29/2008	21:45:00	4.21	10.58	95.4
1/29/2008	22:00:00	4.12	10.59	95.3
1/29/2008	22:15:00	4.00	10.61	95.2
1/29/2008	22:30:00	3.91	10.61	95.0
1/29/2008	22:45:00	3.83	10.62	94.9
1/29/2008	23:00:00	3.78	10.63	94.8
1/29/2008	23:15:00	3.71	10.64	94.7
1/29/2008	23:30:00	3.67	10.64	94.6
1/29/2008	23:45:00	3.62	10.64	94.5
1/30/2008	0:00:00	3.58	10.65	94.5
1/30/2008	0:15:00	3.53	10.65	94.4
1/30/2008	0:30:00	3.46	10.66	94.3
1/30/2008	0:45:00	3.43	10.66	94.2
1/30/2008	1:00:00	3.39	10.66	94.2
1/30/2008	1:15:00	3.33	10.68	94.1
1/30/2008	1:30:00	3.26	10.69	94.0
1/30/2008	1:45:00	3.19	10.70	94.0
1/30/2008	2:00:00	3.14	10.72	94.0
1/30/2008	2:15:00	3.08	10.73	93.9
1/30/2008	2:30:00	2.99	10.74	93.8
1/30/2008	2:45:00	2.94	10.76	93.8
1/30/2008	3:00:00	2.87	10.77	93.8
1/30/2008	3:15:00	2.74	10.80	93.7
1/30/2008	3:30:00	2.67	10.82	93.7
1/30/2008	3:45:00	2.58	10.84	93.6
1/30/2008	4:00:00	2.47	10.86	93.5
1/30/2008	4:15:00	2.38	10.88	93.5
1/30/2008	4:30:00	2.28	10.90	93.4
1/30/2008	4:45:00	2.19	10.93	93.4
1/30/2008	5:00:00	2.10	10.95	93.3

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	5:15:00	2.02	10.97	93.3
1/30/2008	5:30:00	1.94	11.00	93.3
1/30/2008	5:45:00	1.85	11.02	93.3
1/30/2008	6:00:00	1.78	11.04	93.3
1/30/2008	6:15:00	1.70	11.07	93.3
1/30/2008	6:30:00	1.60	11.10	93.3
1/30/2008	6:45:00	1.52	11.11	93.2
1/30/2008	7:00:00	1.44	11.14	93.2
1/30/2008	7:15:00	1.37	11.17	93.3
1/30/2008	7:30:00	1.32	11.19	93.3
1/30/2008	7:45:00	1.25	11.22	93.4
1/30/2008	8:00:00	1.22	11.25	93.6
1/30/2008	8:15:00	1.24	11.28	93.9
1/30/2008	8:30:00	1.21	11.31	94.1
1/30/2008	8:45:00	1.17	11.34	94.2
1/30/2008	9:00:00	1.18	11.36	94.5
1/30/2008	9:15:00	1.23	11.39	94.8
1/30/2008	9:30:00	1.44	11.43	95.7
1/30/2008	9:45:00	1.74	11.46	96.7
1/30/2008	10:00:00	1.91	11.48	97.3
1/30/2008	10:15:00	1.82	11.49	97.2
1/30/2008	10:30:00	1.69	11.49	96.9
1/30/2008	10:45:00	1.62	11.50	96.7
1/30/2008	11:00:00	1.61	11.51	96.8
1/30/2008	11:15:00	1.66	11.53	97.1
1/30/2008	11:30:00	1.71	11.54	97.4
1/30/2008	11:45:00	1.81	11.55	97.7
1/30/2008	12:00:00	1.98	11.56	98.2
1/30/2008	12:15:00	2.05	11.55	98.3
1/30/2008	12:30:00	2.25	11.54	98.8
1/30/2008	12:45:00	2.41	11.52	99.0
1/30/2008	13:00:00	2.49	11.51	99.2
1/30/2008	13:15:00	2.60	11.50	99.4
1/30/2008	13:30:00	2.87	11.49	100.0
1/30/2008	13:45:00	3.15	11.47	100.6
1/30/2008	14:00:00	3.38	11.43	100.9
1/30/2008	14:15:00	3.61	11.40	101.2
1/30/2008	14:30:00	3.79	11.38	101.5
1/30/2008	14:45:00	3.62	11.35	100.8
1/30/2008	15:00:00	3.65	11.32	100.6
1/30/2008	15:15:00	3.56	11.28	100.0
1/30/2008	15:30:00	3.48	11.26	99.7
1/30/2008	15:45:00	3.43	11.24	99.4
1/30/2008	16:00:00	3.36	11.23	99.1
1/30/2008	16:15:00	3.32	11.22	98.9

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	16:30:00	3.29	11.20	98.7
1/30/2008	16:45:00	3.30	11.18	98.5
1/30/2008	17:00:00	3.28	11.16	98.2
1/30/2008	17:15:00	3.21	11.16	98.0
1/30/2008	17:30:00	3.08	11.15	97.6
1/30/2008	17:45:00	2.91	11.15	97.2
1/30/2008	18:00:00	2.73	11.16	96.7
1/30/2008	18:15:00	2.57	11.17	96.4
1/30/2008	18:30:00	2.43	11.17	96.1
1/30/2008	18:45:00	2.31	11.18	95.8
1/30/2008	19:00:00	2.19	11.18	95.6
1/30/2008	19:15:00	2.09	11.19	95.4
1/30/2008	19:30:00	2.00	11.19	95.1
1/30/2008	19:45:00	1.93	11.19	95.0
1/30/2008	20:00:00	1.88	11.19	94.8
1/30/2008	20:15:00	1.79	11.20	94.7
1/30/2008	20:30:00	1.72	11.20	94.5
1/30/2008	20:45:00	1.63	11.21	94.4
1/30/2008	21:00:00	1.56	11.22	94.3
1/30/2008	21:15:00	1.49	11.23	94.1
1/30/2008	21:30:00	1.44	11.23	94.0
1/30/2008	21:45:00	1.41	11.23	93.9
1/30/2008	22:00:00	1.34	11.24	93.8
1/30/2008	22:15:00	1.31	11.24	93.8
1/30/2008	22:30:00	1.26	11.24	93.7
1/30/2008	22:45:00	1.22	11.24	93.5
1/30/2008	23:00:00	1.17	11.25	93.5
1/30/2008	23:15:00	1.10	11.26	93.3
1/30/2008	23:30:00	1.03	11.26	93.2
1/30/2008	23:45:00	0.96	11.27	93.1
1/31/2008	0:00:00	0.90	11.27	93.0
1/31/2008	0:15:00	0.82	11.28	92.8
1/31/2008	0:30:00	0.77	11.29	92.8
1/31/2008	0:45:00	0.70	11.30	92.7
1/31/2008	1:00:00	0.62	11.32	92.6
1/31/2008	1:15:00	0.57	11.33	92.5
1/31/2008	1:30:00	0.54	11.34	92.6
1/31/2008	1:45:00	0.48	11.35	92.5
1/31/2008	2:00:00	0.44	11.37	92.6
1/31/2008	2:15:00	0.35	11.39	92.5
1/31/2008	2:30:00	0.27	11.41	92.4
1/31/2008	2:45:00	0.19	11.44	92.5
1/31/2008	3:00:00	0.10	11.47	92.5
1/31/2008	3:15:00	0.06	11.52	92.7
1/31/2008	3:30:00	0.06	11.56	93.1

Table 5.55. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2008	3:45:00	0.06	11.60	93.4
1/31/2008	4:00:00	0.08	11.64	93.8
1/31/2008	4:15:00	0.08	11.68	94.1
1/31/2008	4:30:00	0.09	11.71	94.4
1/31/2008	4:45:00	0.10	11.74	94.7
1/31/2008	5:00:00	0.09	11.76	94.8
1/31/2008	5:15:00	0.09	11.79	95.0
1/31/2008	5:30:00	0.11	11.81	95.3
1/31/2008	5:45:00	0.10	11.83	95.4
1/31/2008	6:00:00	0.10	11.85	95.6
1/31/2008	6:15:00	0.11	11.87	95.8
1/31/2008	6:30:00	0.10	11.89	95.9
1/31/2008	6:45:00	0.11	11.91	96.0
1/31/2008	7:00:00	0.10	11.93	96.2
1/31/2008	7:15:00	0.11	11.95	96.4
1/31/2008	7:30:00	0.11	11.97	96.5
1/31/2008	7:45:00	0.11	11.98	96.6
1/31/2008	8:00:00	0.11	11.99	96.7
1/31/2008	8:15:00	0.10	11.99	96.7
1/31/2008	8:30:00	0.11	12.00	96.8

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**Part of S6-1-22-08**
Setup	**Date**	**(MMDDYY)**	**:**	**1/22/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**95915**
Starting	**Date**	**(MMDDYY)**	**:**	**1/22/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**95915**
Stopping	**Date**	**(MMDDYY)**	**:**	**1/31/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**300**
Circulator	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
1/26/2008	14:14:15	5.7	325	8.23	9.63	90.2
1/26/2008	14:29:15	5.9	327	8.23	9.59	90.3
1/26/2008	14:44:15	6.1	331	8.23	9.49	89.8
1/26/2008	14:59:15	6.2	333	8.23	9.55	90.6
1/26/2008	15:14:15	6.3	336	8.22	9.49	90.3
1/26/2008	15:29:15	6.4	339	8.23	9.45	90.1
1/26/2008	15:44:15	6.4	340	8.23	9.33	89.1
1/26/2008	15:59:15	6.4	344	8.22	9.31	89.0
1/26/2008	16:14:15	6.5	344	8.22	9.20	88.0
1/26/2008	16:29:15	6.4	348	8.22	9.03	86.3
1/26/2008	16:44:15	6.4	350	8.22	8.86	84.7
1/26/2008	16:59:15	6.4	351	8.21	8.80	83.9
1/26/2008	17:14:15	6.3	352	8.21	8.61	82.0
1/26/2008	17:29:15	6.2	352	8.20	8.44	80.2
1/26/2008	17:44:15	6.1	348	8.19	8.54	81.0
1/26/2008	17:59:15	6.1	346	8.19	8.31	78.6
1/26/2008	18:14:15	6.0	347	8.19	8.35	78.9
1/26/2008	18:29:15	5.9	346	8.19	8.40	79.2
1/26/2008	18:44:15	5.8	344	8.20	8.46	79.6
1/26/2008	18:59:15	5.8	347	8.19	8.63	81.0
1/26/2008	19:14:15	5.7	341	8.19	8.33	78.1
1/26/2008	19:29:15	5.6	341	8.19	8.31	77.7
1/26/2008	19:44:15	5.5	340	8.18	8.34	77.9
1/26/2008	19:59:15	5.5	339	8.18	8.34	77.7
1/26/2008	20:14:15	5.4	341	8.18	8.36	77.8
1/26/2008	20:29:15	5.3	343	8.18	8.43	78.3
1/26/2008	20:44:15	5.3	342	8.17	8.42	78.1
1/26/2008	20:59:15	5.2	342	8.18	8.59	79.6
1/26/2008	21:14:15	5.1	341	8.17	8.49	78.5
1/26/2008	21:29:15	5.0	341	8.18	8.53	78.7
1/26/2008	21:44:15	5.0	336	8.19	8.38	77.1
1/26/2008	21:59:15	4.9	335	8.18	8.39	77.1

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2008	22:14:15	4.8	337	8.17	8.54	78.3
1/26/2008	22:29:15	4.8	339	8.18	8.55	78.3
1/26/2008	22:44:15	4.7	340	8.18	8.78	80.3
1/26/2008	22:59:15	4.6	339	8.18	8.68	79.2
1/26/2008	23:14:15	4.6	336	8.18	8.45	77.0
1/26/2008	23:29:15	4.6	338	8.19	8.49	77.4
1/26/2008	23:44:15	4.5	335	8.18	8.45	76.9
1/26/2008	23:59:15	4.5	334	8.18	8.49	77.1
1/27/2008	0:14:15	4.4	333	8.19	8.41	76.3
1/27/2008	0:29:15	4.4	332	8.19	8.38	76.0
1/27/2008	0:44:15	4.4	334	8.19	8.36	75.7
1/27/2008	0:59:15	4.3	331	8.20	8.49	76.8
1/27/2008	1:14:15	4.3	332	8.20	8.43	76.2
1/27/2008	1:29:15	4.2	333	8.20	8.45	76.3
1/27/2008	1:44:15	4.2	334	8.20	8.75	79.0
1/27/2008	1:59:15	4.1	330	8.20	8.56	77.1
1/27/2008	2:14:15	4.1	332	8.20	8.57	77.1
1/27/2008	2:29:15	4.0	333	8.21	8.65	77.7
1/27/2008	2:44:15	4.0	332	8.20	8.67	77.8
1/27/2008	2:59:15	3.9	332	8.21	8.69	77.9
1/27/2008	3:14:15	3.9	332	8.21	8.90	79.6
1/27/2008	3:29:15	3.8	333	8.21	8.89	79.4
1/27/2008	3:44:15	3.8	327	8.22	8.75	78.1
1/27/2008	3:59:15	3.7	328	8.21	8.74	77.7
1/27/2008	4:14:15	3.6	326	8.22	8.50	75.5
1/27/2008	4:29:15	3.5	327	8.21	8.68	76.9
1/27/2008	4:44:15	3.5	331	8.20	8.72	77.2
1/27/2008	4:59:15	3.4	327	8.20	8.72	77.1
1/27/2008	5:14:15	3.3	332	8.21	9.01	79.5
1/27/2008	5:29:15	3.3	332	8.21	9.06	79.7
1/27/2008	5:44:15	3.2	328	8.20	9.10	80.0
1/27/2008	5:59:15	3.1	330	8.20	8.99	78.8
1/27/2008	6:14:15	3.0	329	8.20	9.20	80.5
1/27/2008	6:29:15	2.9	329	8.20	9.09	79.3
1/27/2008	6:44:15	2.8	328	8.21	9.05	78.7
1/27/2008	6:59:15	2.8	325	8.21	8.92	77.5
1/27/2008	7:14:15	2.7	324	8.21	8.89	77.0
1/27/2008	7:29:15	2.6	327	8.22	9.18	79.4
1/27/2008	7:44:15	2.6	327	8.21	9.27	80.1
1/27/2008	7:59:15	2.5	327	8.21	9.35	80.7
1/27/2008	8:14:15	2.5	328	8.22	9.47	81.7
1/27/2008	8:29:15	2.5	327	8.21	9.48	81.7
1/27/2008	8:44:15	2.5	325	8.22	9.46	81.4
1/27/2008	8:59:15	2.4	323	8.23	9.58	82.3
1/27/2008	9:14:15	2.4	323	8.23	9.58	82.4
1/27/2008	9:29:15	2.4	319	8.22	9.38	80.7

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	9:44:15	2.4	321	8.23	9.12	78.5
1/27/2008	9:59:15	2.5	321	8.22	9.13	78.7
1/27/2008	10:14:15	2.6	321	8.22	9.28	80.3
1/27/2008	10:29:15	2.8	316	8.22	9.28	80.6
1/27/2008	10:44:15	2.9	319	8.22	9.31	81.1
1/27/2008	10:59:15	3.0	318	8.23	9.56	83.5
1/27/2008	11:14:15	3.1	312	8.24	9.56	83.7
1/27/2008	11:29:15	3.2	313	8.22	9.37	82.2
1/27/2008	11:44:15	3.3	314	8.22	9.11	80.2
1/27/2008	11:59:15	3.4	316	8.23	9.22	81.3
1/27/2008	12:14:15	3.4	312	8.23	9.17	81.1
1/27/2008	12:29:15	3.6	315	8.22	9.13	81.1
1/27/2008	12:44:15	3.8	317	8.23	9.13	81.4
1/27/2008	12:59:15	3.9	321	8.22	9.23	82.5
1/27/2008	13:14:15	4.0	320	8.22	9.15	82.1
1/27/2008	13:29:15	4.3	323	8.22	9.11	82.4
1/27/2008	13:44:15	4.5	321	8.21	9.27	84.3
1/27/2008	13:59:15	4.7	324	8.21	9.49	86.7
1/27/2008	14:14:15	4.8	324	8.20	9.19	84.3
1/27/2008	14:29:15	4.9	324	8.21	8.86	81.3
1/27/2008	14:44:15	4.9	325	8.20	8.82	81.0
1/27/2008	14:59:15	4.9	326	8.20	8.86	81.3
1/27/2008	15:14:15	4.9	327	8.20	9.03	83.0
1/27/2008	15:29:15	5.0	328	8.19	8.88	81.7
1/27/2008	15:44:15	5.0	330	8.19	8.82	81.3
1/27/2008	15:59:15	5.1	333	8.19	8.81	81.3
1/27/2008	16:14:15	5.1	335	8.19	8.94	82.6
1/27/2008	16:29:15	5.1	335	8.19	8.92	82.4
1/27/2008	16:44:15	5.1	337	8.18	8.91	82.4
1/27/2008	16:59:15	5.1	336	8.19	8.71	80.4
1/27/2008	17:14:15	5.1	332	8.20	8.68	80.2
1/27/2008	17:29:15	5.1	335	8.20	8.66	79.9
1/27/2008	17:44:15	5.1	335	8.19	8.68	80.1
1/27/2008	17:59:15	5.1	336	8.19	8.69	80.2
1/27/2008	18:14:15	5.1	338	8.19	8.73	80.6
1/27/2008	18:29:15	5.1	337	8.21	8.71	80.4
1/27/2008	18:44:15	5.0	338	8.20	8.74	80.6
1/27/2008	18:59:15	5.0	339	8.20	8.81	81.2
1/27/2008	19:14:15	5.0	337	8.21	8.92	82.2
1/27/2008	19:29:15	5.0	335	8.22	8.85	81.5
1/27/2008	19:44:15	5.0	334	8.22	8.72	80.2
1/27/2008	19:59:15	4.9	337	8.22	8.80	81.0
1/27/2008	20:14:15	4.9	336	8.22	8.77	80.7
1/27/2008	20:29:15	4.9	336	8.23	8.84	81.2
1/27/2008	20:44:15	4.9	336	8.23	8.77	80.6
1/27/2008	20:59:15	4.9	335	8.22	8.70	79.9

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/27/2008	21:14:15	4.9	336	8.22	8.49	78.0
1/27/2008	21:29:15	4.9	332	8.23	8.50	78.1
1/27/2008	21:44:15	4.9	333	8.23	8.47	77.9
1/27/2008	21:59:15	4.9	335	8.23	8.49	78.0
1/27/2008	22:14:15	4.9	336	8.23	8.52	78.3
1/27/2008	22:29:15	4.9	336	8.24	8.57	78.8
1/27/2008	22:44:15	4.9	335	8.24	8.59	79.0
1/27/2008	22:59:15	5.0	336	8.24	8.60	79.1
1/27/2008	23:14:15	5.0	333	8.25	8.73	80.3
1/27/2008	23:29:15	5.0	329	8.24	8.67	79.9
1/27/2008	23:44:15	5.0	329	8.26	8.86	81.6
1/27/2008	23:59:15	5.0	329	8.25	8.79	81.0
1/28/2008	0:14:15	5.0	332	8.26	8.65	79.7
1/28/2008	0:29:15	5.0	328	8.26	8.47	78.1
1/28/2008	0:44:15	5.1	329	8.26	8.38	77.3
1/28/2008	0:59:15	5.1	329	8.26	8.44	77.9
1/28/2008	1:14:15	5.1	331	8.26	8.47	78.2
1/28/2008	1:29:15	5.1	331	8.25	8.50	78.6
1/28/2008	1:44:15	5.1	330	8.25	8.67	80.1
1/28/2008	1:59:15	5.2	331	8.25	8.77	81.1
1/28/2008	2:14:15	5.1	330	8.25	8.92	82.5
1/28/2008	2:29:15	5.2	329	8.25	8.89	82.2
1/28/2008	2:44:15	5.2	328	8.25	8.90	82.5
1/28/2008	2:59:15	5.2	327	8.25	8.88	82.3
1/28/2008	3:14:15	5.3	325	8.25	8.93	82.8
1/28/2008	3:29:15	5.3	326	8.26	8.91	82.7
1/28/2008	3:44:15	5.3	326	8.25	8.87	82.4
1/28/2008	3:59:15	5.3	327	8.25	8.68	80.7
1/28/2008	4:14:15	5.3	326	8.24	8.67	80.6
1/28/2008	4:29:15	5.4	326	8.25	8.69	80.7
1/28/2008	4:44:15	5.4	325	8.24	8.77	81.5
1/28/2008	4:59:15	5.4	324	8.24	8.75	81.3
1/28/2008	5:14:15	5.3	324	8.24	8.70	80.9
1/28/2008	5:29:15	5.4	323	8.24	8.72	81.1
1/28/2008	5:44:15	5.3	319	8.24	8.72	81.0
1/28/2008	5:59:15	5.3	319	8.24	8.58	79.7
1/28/2008	6:14:15	5.3	318	8.22	8.52	79.1
1/28/2008	6:29:15	5.2	317	8.24	8.76	81.2
1/28/2008	6:44:15	5.2	317	8.24	8.69	80.4
1/28/2008	6:59:15	5.1	316	8.23	8.66	80.1
1/28/2008	7:14:15	5.1	316	8.24	8.69	80.2
1/28/2008	7:29:15	5.0	315	8.23	8.71	80.1
1/28/2008	7:44:15	4.9	315	8.24	8.84	81.3
1/28/2008	7:59:15	4.9	317	8.25	9.07	83.2
1/28/2008	8:14:15	4.9	268	8.24	9.08	83.3
1/28/2008	8:29:15	4.8	251	8.24	9.06	83.1

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	8:44:15	4.9	271	8.24	9.05	83.1
1/28/2008	8:59:15	5.0	314	8.25	9.13	84.1
1/28/2008	9:14:15	5.1	313	8.26	9.19	84.9
1/28/2008	9:29:15	5.3	313	8.26	9.18	85.1
1/28/2008	9:44:15	5.4	312	8.26	9.16	85.3
1/28/2008	9:59:15	5.6	313	8.26	9.18	85.9
1/28/2008	10:14:15	5.7	311	8.26	9.18	86.2
1/28/2008	10:29:15	5.8	311	8.25	9.12	85.7
1/28/2008	10:44:15	6.0	310	8.25	9.22	87.1
1/28/2008	10:59:15	6.2	312	8.25	9.18	87.1
1/28/2008	11:14:15	6.4	312	8.25	9.20	87.7
1/28/2008	11:29:15	6.6	313	8.24	9.12	87.5
1/28/2008	11:44:15	6.8	314	8.24	9.14	88.1
1/28/2008	11:59:15	7.0	316	8.23	9.15	88.7
1/28/2008	12:14:15	7.3	317	8.23	9.10	88.7
1/28/2008	12:29:15	7.5	319	8.22	9.12	89.4
1/28/2008	12:44:15	7.7	321	8.22	8.93	88.0
1/28/2008	12:59:15	7.8	321	8.22	8.86	87.6
1/28/2008	13:14:15	8.0	322	8.22	8.57	85.1
1/28/2008	13:29:15	8.2	324	8.21	8.90	88.9
1/28/2008	13:44:15	8.4	325	8.21	8.88	89.0
1/28/2008	13:59:15	8.5	324	8.21	8.74	88.0
1/28/2008	14:14:15	8.7	325	8.22	8.48	85.7
1/28/2008	14:29:15	8.8	325	8.21	8.74	88.5
1/28/2008	14:44:15	8.9	326	8.22	8.70	88.4
1/28/2008	14:59:15	9.0	326	8.22	8.64	87.8
1/28/2008	15:14:15	9.0	326	8.22	8.62	87.8
1/28/2008	15:29:15	9.0	327	8.22	8.62	87.8
1/28/2008	15:44:15	9.0	328	8.23	8.62	87.8
1/28/2008	15:59:15	9.0	328	8.22	8.61	87.7
1/28/2008	16:14:15	9.0	330	8.22	8.50	86.5
1/28/2008	16:29:15	8.9	328	8.22	8.41	85.4
1/28/2008	16:44:15	8.8	328	8.22	8.02	81.2
1/28/2008	16:59:15	8.7	330	8.21	8.41	85.0
1/28/2008	17:14:15	8.6	334	8.23	8.34	84.0
1/28/2008	17:29:15	8.5	334	8.20	8.28	83.2
1/28/2008	17:44:15	8.4	335	8.21	7.84	78.5
1/28/2008	17:59:15	8.2	334	8.21	7.98	79.8
1/28/2008	18:14:15	8.2	335	8.22	7.99	79.6
1/28/2008	18:29:15	8.0	334	8.22	8.42	83.7
1/28/2008	18:44:15	7.9	331	8.23	8.29	82.2
1/28/2008	18:59:15	7.8	330	8.23	8.26	81.6
1/28/2008	19:14:15	7.7	333	8.23	8.37	82.5
1/28/2008	19:29:15	7.6	332	8.24	8.28	81.3
1/28/2008	19:44:15	7.4	332	8.25	8.38	82.1
1/28/2008	19:59:15	7.3	331	8.27	8.41	82.1

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/28/2008	20:14:15	7.2	332	8.27	8.42	82.1
1/28/2008	20:29:15	7.1	331	8.27	8.14	79.1
1/28/2008	20:44:15	7.0	331	8.28	7.90	76.6
1/28/2008	20:59:15	6.9	321	8.29	7.38	71.4
1/28/2008	21:14:15	6.8	325	8.28	8.21	79.2
1/28/2008	21:29:15	6.7	323	8.29	8.26	79.5
1/28/2008	21:44:15	6.6	321	8.29	7.91	75.9
1/28/2008	21:59:15	6.5	319	8.30	7.66	73.3
1/28/2008	22:14:15	6.4	318	8.30	7.50	71.7
1/28/2008	22:29:15	6.4	326	8.30	7.13	68.0
1/28/2008	22:44:15	6.3	313	8.30	6.67	63.5
1/28/2008	22:59:15	6.2	318	8.30	6.69	63.6
1/28/2008	23:14:15	6.2	293	8.30	6.49	61.6
1/28/2008	23:29:15	6.1	301	8.30	6.55	62.1
1/28/2008	23:44:15	6.1	316	8.29	6.50	61.6
1/28/2008	23:59:15	5.8	303	8.31	6.37	59.9
1/29/2008	0:14:15	5.7	318	8.30	5.42	50.8
1/29/2008	0:29:15	5.6	305	8.30	4.95	46.3
1/29/2008	0:44:15	5.5	294	8.28	5.27	49.1
1/29/2008	0:59:15	5.4	308	8.29	7.96	74.2
1/29/2008	1:14:15	5.4	306	8.28	7.87	73.2
1/29/2008	1:29:15	5.3	306	8.27	7.96	73.9
1/29/2008	1:44:15	5.2	304	8.27	8.27	76.7
1/29/2008	1:59:15	5.2	302	8.26	8.23	76.1
1/29/2008	2:14:15	5.1	303	8.26	7.87	72.7
1/29/2008	2:29:15	5.0	302	8.26	7.60	70.0
1/29/2008	2:44:15	4.9	301	8.26	7.10	65.2
1/29/2008	2:59:15	4.8	302	8.26	7.18	65.8
1/29/2008	3:14:15	4.6	302	8.26	7.25	66.1
1/29/2008	3:29:15	4.5	303	8.26	7.26	66.0
1/29/2008	3:44:15	4.4	302	8.26	7.11	64.5
1/29/2008	3:59:15	4.3	303	8.26	7.04	63.7
1/29/2008	4:14:15	4.2	304	8.25	7.05	63.6
1/29/2008	4:29:15	4.0	306	8.24	7.12	64.0
1/29/2008	4:44:15	3.9	305	8.26	7.10	63.5
1/29/2008	4:59:15	3.7	304	8.25	7.08	63.1
1/29/2008	5:14:15	3.6	306	8.24	7.09	63.0
1/29/2008	5:29:15	3.5	307	8.26	7.00	62.0
1/29/2008	5:44:15	3.3	307	8.25	7.11	62.7
1/29/2008	5:59:15	3.2	307	8.26	7.17	63.0
1/29/2008	6:14:15	3.1	309	8.25	7.38	64.6
1/29/2008	6:29:15	2.9	309	8.26	7.53	65.7
1/29/2008	6:44:15	2.8	309	8.25	7.62	66.2
1/29/2008	6:59:15	2.7	310	8.27	7.60	65.9
1/29/2008	7:14:15	2.6	311	8.25	7.64	65.9
1/29/2008	7:29:15	2.4	311	8.26	7.81	67.3

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	7:44:15	2.3	312	8.26	7.67	65.8
1/29/2008	7:59:15	2.2	311	8.25	7.60	65.0
1/29/2008	8:14:15	2.2	311	8.25	7.66	65.5
1/29/2008	8:29:15	2.2	314	8.26	7.63	65.2
1/29/2008	8:44:15	2.2	311	8.26	7.65	65.4
1/29/2008	8:59:15	2.2	312	8.27	7.66	65.5
1/29/2008	9:14:15	2.2	311	8.27	7.55	64.6
1/29/2008	9:29:15	2.3	313	8.27	7.53	64.6
1/29/2008	9:44:15	2.4	313	8.26	7.63	65.6
1/29/2008	9:59:15	2.5	314	8.26	7.65	65.9
1/29/2008	10:14:15	2.6	314	8.26	7.52	65.0
1/29/2008	10:29:15	2.7	315	8.26	7.51	65.1
1/29/2008	10:44:15	2.9	315	8.27	7.55	65.8
1/29/2008	10:59:15	3.1	316	8.26	7.49	65.6
1/29/2008	11:14:15	3.3	314	8.26	7.38	64.9
1/29/2008	11:29:15	3.5	318	8.25	7.26	64.2
1/29/2008	11:44:15	3.7	317	8.26	7.34	65.4
1/29/2008	11:59:15	4.0	319	8.24	7.30	65.4
1/29/2008	12:14:15	4.2	321	8.25	7.24	65.3
1/29/2008	12:29:15	4.4	321	8.25	7.27	66.0
1/29/2008	12:44:15	4.7	323	8.23	7.22	65.9
1/29/2008	12:59:15	4.9	323	8.23	7.23	66.4
1/29/2008	13:14:15	5.1	327	8.23	7.15	66.0
1/29/2008	13:29:15	5.3	324	8.22	7.07	65.7
1/29/2008	13:44:15	5.5	323	8.22	6.95	64.8
1/29/2008	13:59:15	5.7	323	8.22	6.83	64.0
1/29/2008	14:14:15	5.8	325	8.23	6.74	63.4
1/29/2008	14:29:15	6.0	326	8.23	6.60	62.3
1/29/2008	14:44:15	6.1	323	8.23	6.54	62.0
1/29/2008	14:59:15	6.2	326	8.23	6.53	62.1
1/29/2008	15:14:15	6.3	326	8.23	6.36	60.5
1/29/2008	15:29:15	6.3	326	8.23	6.23	59.4
1/29/2008	15:44:15	6.4	327	8.23	6.26	59.7
1/29/2008	15:59:15	6.3	328	8.24	6.26	59.6
1/29/2008	16:14:15	6.3	329	8.23	6.47	61.7
1/29/2008	16:29:15	6.2	329	8.24	6.51	61.9
1/29/2008	16:44:15	6.1	331	8.23	6.66	63.2
1/29/2008	16:59:15	6.0	330	8.25	6.65	62.8
1/29/2008	17:14:15	5.9	332	8.24	6.73	63.5
1/29/2008	17:29:15	5.8	332	8.24	6.79	63.9
1/29/2008	17:44:15	5.7	330	8.24	6.62	62.1
1/29/2008	17:59:15	5.6	326	8.26	6.59	61.5
1/29/2008	18:14:15	5.5	327	8.25	6.46	60.2
1/29/2008	18:29:15	5.4	329	8.25	6.50	60.5
1/29/2008	18:44:15	5.3	326	8.26	6.42	59.5
1/29/2008	18:59:15	5.2	327	8.24	6.27	58.0

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/29/2008	19:14:15	5.1	327	8.24	6.32	58.3
1/29/2008	19:29:15	4.9	327	8.25	6.26	57.6
1/29/2008	19:44:15	4.8	327	8.25	6.37	58.4
1/29/2008	19:59:15	4.7	326	8.26	6.39	58.4
1/29/2008	20:14:15	4.6	327	8.26	6.39	58.3
1/29/2008	20:29:15	4.5	327	8.25	6.37	58.0
1/29/2008	20:44:15	4.4	328	8.25	6.45	58.6
1/29/2008	20:59:15	4.3	330	8.25	6.51	58.9
1/29/2008	21:14:15	4.2	328	8.25	6.50	58.6
1/29/2008	21:29:15	4.1	328	8.25	6.56	59.1
1/29/2008	21:44:15	4.0	327	8.24	6.52	58.6
1/29/2008	21:59:15	4.0	327	8.25	6.59	59.1
1/29/2008	22:14:15	3.8	328	8.25	6.61	59.0
1/29/2008	22:29:15	3.7	326	8.25	6.61	58.9
1/29/2008	22:44:15	3.7	327	8.25	6.69	59.5
1/29/2008	22:59:15	3.6	324	8.25	6.65	59.0
1/29/2008	23:14:15	3.5	329	8.25	6.66	59.0
1/29/2008	23:29:15	3.5	328	8.24	6.64	58.9
1/29/2008	23:44:15	3.5	329	8.24	6.66	58.9
1/29/2008	23:59:15	3.4	330	8.25	6.76	59.7
1/30/2008	0:14:15	3.4	327	8.25	6.75	59.6
1/30/2008	0:29:15	3.3	328	8.26	6.74	59.4
1/30/2008	0:44:15	3.3	328	8.26	6.68	58.8
1/30/2008	0:59:15	3.2	328	8.25	6.67	58.6
1/30/2008	1:14:15	3.2	328	8.26	6.61	58.0
1/30/2008	1:29:15	3.1	327	8.26	6.62	58.0
1/30/2008	1:44:15	3.0	330	8.26	6.62	57.9
1/30/2008	1:59:15	3.0	329	8.26	6.53	57.0
1/30/2008	2:14:15	2.9	330	8.25	6.55	57.1
1/30/2008	2:29:15	2.8	329	8.26	6.55	57.0
1/30/2008	2:44:15	2.8	328	8.25	6.49	56.3
1/30/2008	2:59:15	2.7	328	8.24	6.47	56.1
1/30/2008	3:14:15	2.6	326	8.25	6.52	56.3
1/30/2008	3:29:15	2.5	329	8.24	6.49	55.9
1/30/2008	3:44:15	2.4	325	8.24	6.48	55.7
1/30/2008	3:59:15	2.3	324	8.25	6.57	56.4
1/30/2008	4:14:15	2.2	324	8.24	6.57	56.2
1/30/2008	4:29:15	2.1	323	8.25	6.54	55.8
1/30/2008	4:44:15	2.0	321	8.24	6.55	55.8
1/30/2008	4:59:15	1.9	319	8.24	6.64	56.4
1/30/2008	5:14:15	1.9	318	8.24	6.60	55.9
1/30/2008	5:29:15	1.8	317	8.24	6.73	56.9
1/30/2008	5:44:15	1.7	316	8.24	6.73	56.7
1/30/2008	5:59:15	1.6	315	8.24	6.78	57.1
1/30/2008	6:14:15	1.5	316	8.23	6.75	56.7
1/30/2008	6:29:15	1.4	316	8.24	6.81	57.0

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	6:44:15	1.4	316	8.24	6.80	56.8
1/30/2008	6:59:15	1.3	314	8.24	6.81	56.8
1/30/2008	7:14:15	1.2	313	8.22	6.87	57.1
1/30/2008	7:29:15	1.2	313	8.23	6.88	57.2
1/30/2008	7:44:15	1.1	312	8.23	6.96	57.7
1/30/2008	7:59:15	1.1	309	8.22	6.96	57.7
1/30/2008	8:14:15	1.1	309	8.22	6.98	57.8
1/30/2008	8:29:15	1.1	309	8.23	7.02	58.1
1/30/2008	8:44:15	1.0	306	8.23	7.10	58.7
1/30/2008	8:59:15	1.0	305	8.23	7.16	59.3
1/30/2008	9:14:15	1.1	305	8.22	7.23	59.9
1/30/2008	9:29:15	1.3	306	8.22	7.32	61.1
1/30/2008	9:44:15	1.6	304	8.22	7.29	61.3
1/30/2008	9:59:15	1.7	303	8.24	7.32	61.8
1/30/2008	10:14:15	1.7	303	8.23	7.24	61.0
1/30/2008	10:29:15	1.5	303	8.23	7.32	61.4
1/30/2008	10:44:15	1.5	303	8.23	7.26	60.8
1/30/2008	10:59:15	1.4	302	8.24	7.30	61.1
1/30/2008	11:14:15	1.5	302	8.23	7.30	61.3
1/30/2008	11:29:15	1.5	301	8.24	7.28	61.1
1/30/2008	11:44:15	1.6	301	8.24	7.22	60.8
1/30/2008	11:59:15	1.8	301	8.23	7.20	60.9
1/30/2008	12:14:15	1.9	301	8.23	7.18	60.8
1/30/2008	12:29:15	2.1	299	8.23	7.16	61.0
1/30/2008	12:44:15	2.2	277	8.22	6.99	59.8
1/30/2008	12:59:15	2.3	299	8.23	7.10	60.9
1/30/2008	13:14:15	2.4	298	8.22	6.96	59.9
1/30/2008	13:29:15	2.7	301	8.23	6.85	59.4
1/30/2008	13:44:15	3.0	297	8.23	6.81	59.4
1/30/2008	13:59:15	3.2	303	8.22	6.80	59.7
1/30/2008	14:14:15	3.4	301	8.22	6.66	58.8
1/30/2008	14:29:15	3.6	303	8.23	6.32	56.2
1/30/2008	14:44:15	3.5	307	8.24	6.10	54.0
1/30/2008	14:59:15	3.5	310	8.24	6.05	53.5
1/30/2008	15:14:15	3.4	314	8.25	5.82	51.4
1/30/2008	15:29:15	3.3	311	8.25	5.75	50.7
1/30/2008	15:44:15	3.3	321	8.24	5.59*	49.2
1/30/2008	15:59:15	3.2	324	8.25	4.80	42.2
1/30/2008	16:14:15	3.1	329	8.25	4.80	42.1
1/30/2008	16:29:15	3.1	329	8.24	3.66	32.1
1/30/2008	16:44:15	3.1	333	8.24	3.83	33.6
1/30/2008	16:59:15	3.1	291	8.24	3.14	27.5
1/30/2008	17:14:15	3.0	326	8.24	2.86	25.0
1/30/2008	17:29:15	2.9	320	8.24	2.64	23.1
1/30/2008	17:44:15	2.8	287	8.24	2.51	21.8
1/30/2008	17:59:15	2.6	300	8.23	2.37	20.4

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/30/2008	18:14:15	2.4	304	8.24	2.21	19.0
1/30/2008	18:29:15	2.3	313	8.23	2.13	18.3
1/30/2008	18:44:15	2.1	324	8.23	2.02	17.2
1/30/2008	18:59:15	2.0	307	8.23	2.00	17.0
1/30/2008	19:14:15	1.9	316	8.23	1.94	16.5
1/30/2008	19:29:15	1.9	281	8.22	1.91	16.2
1/30/2008	19:44:15	1.8	283	8.22	1.85	15.7
1/30/2008	19:59:15	1.7	255	8.25	1.74	14.7
1/30/2008	20:14:15	1.6	258	8.23	1.72	14.5
1/30/2008	20:29:15	1.6	252	8.25	1.78	15.0
1/30/2008	20:44:15	1.5	250	8.24	1.79	15.0
1/30/2008	20:59:15	1.4	237	8.26	1.90	15.9
1/30/2008	21:14:15	1.3	239	8.25	1.98	16.6
1/30/2008	21:29:15	1.3	235	8.25	2.04	17.0
1/30/2008	21:44:15	1.2	231	8.23	2.02	16.8
1/30/2008	21:59:15	1.2	239	8.23	2.07	17.2
1/30/2008	22:14:15	1.1	235	8.23	2.10	17.4
1/30/2008	22:29:15	1.1	255	8.25	2.06	17.1
1/30/2008	22:44:15	1.1	246	8.25	1.95	16.2
1/30/2008	22:59:15	1.0	217	8.25	1.93	16.0
1/30/2008	23:14:15	0.9	213	8.24	1.99	16.5
1/30/2008	23:29:15	0.9	209	8.24	2.05	16.8
1/30/2008	23:44:15	0.8	205	8.24	2.04	16.8
1/30/2008	23:59:15	0.7	212	8.25	2.14	17.5
1/31/2008	0:14:15	0.7	203	8.23	2.13	17.4
1/31/2008	0:29:15	0.6	213	8.23	2.20	18.0
1/31/2008	0:44:15	0.5	213	8.24	2.17	17.7
1/31/2008	0:59:15	0.5	206	8.23	2.19	17.8
1/31/2008	1:14:15	0.4	201	8.22	2.24	18.2
1/31/2008	1:29:15	0.4	205	8.22	2.23	18.2
1/31/2008	1:44:15	0.3	205	8.22	2.30	18.7
1/31/2008	1:59:15	0.3	205	8.22	2.20	17.9
1/31/2008	2:14:15	0.2	213	8.23	2.30	18.6
1/31/2008	2:29:15	0.1	218	8.22	2.30	18.5
1/31/2008	2:44:15	0.0	218	8.21	2.37	19.0
1/31/2008	2:59:15	-0.1	237	8.22	2.37	19.0
1/31/2008	3:14:15	-0.1	219	8.22	2.40	19.2
1/31/2008	3:29:15	-0.1	192	8.19	2.32	18.6
1/31/2008	3:44:15	-0.1	188	8.19	2.41	19.4
1/31/2008	3:59:15	-0.1	185	8.18	2.33	18.7
1/31/2008	4:14:15	-0.1	176	8.19	2.20	17.6
1/31/2008	4:29:15	-0.1	168	8.18	2.16	17.3
1/31/2008	4:44:15	-0.1	166	8.18	2.20	17.6
1/31/2008	4:59:15	-0.1	152	8.18	2.16	17.4
1/31/2008	5:14:15	-0.1	145	8.21	2.17	17.4
1/31/2008	5:29:15	-0.1	143	8.23	2.17	17.4

Table 5.56. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/31/2008	5:44:15	-0.1	141	8.23	2.21	17.7
1/31/2008	5:59:15	-0.1	140	8.26	2.23	17.8
1/31/2008	6:14:15	-0.1	139	8.30	2.31	18.5
1/31/2008	6:29:15	-0.1	138	8.33	2.31	18.5
1/31/2008	6:44:15	-0.1	138	8.34	2.32	18.6
1/31/2008	6:59:15	-0.1	138	8.33	2.32	18.6
1/31/2008	7:14:15	-0.1	137	8.32	2.35	18.9
1/31/2008	7:29:15	-0.1	136	8.30	2.35	18.9
1/31/2008	7:44:15	-0.1	136	8.28	2.39	19.2
1/31/2008	7:59:15	-0.1	135	8.25	2.35	18.8
1/31/2008	8:14:15	-0.1	135	8.23	2.36	18.9
1/31/2008	8:29:15	-0.1	134	8.21	2.36	18.9

Table 5.57. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Athena**
Log File		**Name**	**:**	**Site4_1_24_08At**
Setup Date		**(MMDDYY)**	**:**	**1/24/2008**
Setup Time		**(HHMMSS)**	**:**	**6:48:11**
Starting Date		**(MMDDYY)**	**:**	**1/24/2008**
Starting Time		**(HHMMSS)**	**:**	**9:00:00**
Stopping Date		**(MMDDYY)**	**:**	**1/26/2008**
Stopping Time		**(HHMMSS)**	**:**	**12:59:59**
Measurement Interval		**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
1/24/2008	10:00:00	4.7	10.17	94.3
1/24/2008	10:15:00	4.8	10.18	94.6
1/24/2008	10:30:00	4.8	10.20	94.8
1/24/2008	10:45:00	4.9	10.21	95.0
1/24/2008	11:00:00	5.0	10.22	95.3
1/24/2008	11:15:00	5.0	10.23	95.5
1/24/2008	11:30:00	5.1	10.23	95.7
1/24/2008	11:45:00	5.1	10.24	95.8
1/24/2008	12:00:00	5.1	10.26	96.1
1/24/2008	12:15:00	5.2	10.27	96.4
1/24/2008	12:30:00	5.3	10.29	96.8
1/24/2008	12:45:00	5.4	10.30	97.2
1/24/2008	13:00:00	5.5	10.31	97.6
1/24/2008	13:15:00	5.7	10.31	98.0
1/24/2008	13:30:00	5.8	10.31	98.2
1/24/2008	13:45:00	5.9	10.29	98.4
1/24/2008	14:00:00	6.0	10.28	98.5
1/24/2008	14:15:00	6.1	10.27	98.6
1/24/2008	14:30:00	6.1	10.26	98.5
1/24/2008	14:45:00	6.2	10.21	98.2
1/24/2008	15:00:00	6.2	10.12	97.6
1/24/2008	15:15:00	6.2	10.08	97.2
1/24/2008	15:30:00	6.2	10.07	97.1
1/24/2008	15:45:00	6.2	10.07	97.0
1/24/2008	16:00:00	6.1	10.08	97.0
1/24/2008	16:15:00	6.1	10.09	96.9
1/24/2008	16:30:00	6.0	10.10	96.8
1/24/2008	16:45:00	6.0	10.11	96.8
1/24/2008	17:00:00	5.9	10.11	96.8
1/24/2008	17:15:00	5.9	10.12	96.8
1/24/2008	17:30:00	5.9	10.12	96.8
1/24/2008	17:45:00	6.0	10.12	96.9
1/24/2008	18:00:00	6.0	10.12	96.9
1/24/2008	18:15:00	5.9	10.12	96.8
1/24/2008	18:30:00	5.9	10.12	96.8

Table 5.57. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	18:45:00	5.9	10.10	96.5
1/24/2008	19:00:00	5.8	10.11	96.5
1/24/2008	19:15:00	5.8	10.13	96.6
1/24/2008	19:30:00	5.8	10.14	96.6
1/24/2008	19:45:00	5.7	10.15	96.6
1/24/2008	20:00:00	5.7	10.15	96.6
1/24/2008	20:15:00	5.7	10.15	96.6
1/24/2008	20:30:00	5.7	10.15	96.5
1/24/2008	20:45:00	5.7	10.15	96.5
1/24/2008	21:00:00	5.6	10.15	96.4
1/24/2008	21:15:00	5.6	10.15	96.4
1/24/2008	21:30:00	5.6	10.15	96.2
1/24/2008	21:45:00	5.5	10.15	96.1
1/24/2008	22:00:00	5.5	10.15	96.0
1/24/2008	22:15:00	5.5	10.15	95.9
1/24/2008	22:30:00	5.4	10.15	95.8
1/24/2008	22:45:00	5.4	10.15	95.7
1/24/2008	23:00:00	5.3	10.15	95.6
1/24/2008	23:15:00	5.3	10.15	95.5
1/24/2008	23:30:00	5.2	10.15	95.4
1/24/2008	23:45:00	5.2	10.15	95.3
1/25/2008	0:00:00	5.1	10.15	95.1
1/25/2008	0:15:00	5.1	10.15	95.0
1/25/2008	0:30:00	5.0	10.15	94.9
1/25/2008	0:45:00	5.0	10.16	94.8
1/25/2008	1:00:00	4.9	10.16	94.7
1/25/2008	1:15:00	4.9	10.16	94.7
1/25/2008	1:30:00	4.9	10.17	94.6
1/25/2008	1:45:00	4.8	10.17	94.5
1/25/2008	2:00:00	4.8	10.17	94.5
1/25/2008	2:15:00	4.8	10.17	94.5
1/25/2008	2:30:00	4.8	10.17	94.4
1/25/2008	2:45:00	4.7	10.17	94.3
1/25/2008	3:00:00	4.7	10.18	94.2
1/25/2008	3:15:00	4.6	10.18	94.2
1/25/2008	3:30:00	4.6	10.19	94.1
1/25/2008	3:45:00	4.6	10.19	94.1
1/25/2008	4:00:00	4.5	10.20	94.0
1/25/2008	4:15:00	4.4	10.21	94.0
1/25/2008	4:30:00	4.4	10.21	94.0
1/25/2008	4:45:00	4.4	10.22	94.0
1/25/2008	5:00:00	4.4	10.23	94.0
1/25/2008	5:15:00	4.3	10.23	94.0
1/25/2008	5:30:00	4.3	10.24	93.9
1/25/2008	5:45:00	4.2	10.25	93.9
1/25/2008	6:00:00	4.2	10.26	93.8

Table 5.57. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	6:15:00	4.2	10.26	93.8
1/25/2008	6:30:00	4.1	10.27	93.8
1/25/2008	6:45:00	4.1	10.28	93.7
1/25/2008	7:00:00	4.0	10.29	93.7
1/25/2008	7:15:00	4.0	10.31	93.7
1/25/2008	7:30:00	3.9	10.32	93.8
1/25/2008	7:45:00	3.9	10.33	93.8
1/25/2008	8:00:00	3.9	10.35	93.9
1/25/2008	8:15:00	3.9	10.36	94.0
1/25/2008	8:30:00	3.9	10.38	94.2
1/25/2008	8:45:00	3.9	10.40	94.4
1/25/2008	9:00:00	4.0	10.42	94.8
1/25/2008	9:15:00	4.0	10.45	95.2
1/25/2008	9:30:00	4.1	10.46	95.4
1/25/2008	9:45:00	4.1	10.47	95.6
1/25/2008	10:00:00	4.2	10.49	96.1
1/25/2008	10:15:00	4.3	10.51	96.5
1/25/2008	10:30:00	4.5	10.53	97.0
1/25/2008	10:45:00	4.7	10.54	97.6
1/25/2008	11:00:00	4.9	10.54	98.1
1/25/2008	11:15:00	5.1	10.54	98.7
1/25/2008	11:30:00	5.3	10.53	99.2
1/25/2008	11:45:00	5.5	10.53	99.7
1/25/2008	12:00:00	5.6	10.52	99.9
1/25/2008	12:15:00	5.8	10.52	100.5
1/25/2008	12:30:00	6.0	10.52	100.9
1/25/2008	12:45:00	6.2	10.51	101.4
1/25/2008	13:00:00	6.4	10.49	101.5
1/25/2008	13:15:00	6.6	10.49	101.9
1/25/2008	13:30:00	6.8	10.47	102.3
1/25/2008	13:45:00	6.8	10.45	102.3
1/25/2008	14:00:00	7.0	10.43	102.6
1/25/2008	14:15:00	7.2	10.39	102.6
1/25/2008	14:30:00	7.3	10.36	102.6
1/25/2008	14:45:00	7.4	10.34	102.6
1/25/2008	15:00:00	7.4	10.33	102.5
1/25/2008	15:15:00	7.4	10.31	102.5
1/25/2008	15:30:00	7.4	10.30	102.2
1/25/2008	15:45:00	7.4	10.29	102.1
1/25/2008	16:00:00	7.4	10.27	101.9
1/25/2008	16:15:00	7.4	10.25	101.7
1/25/2008	16:30:00	7.4	10.22	101.4
1/25/2008	16:45:00	7.4	10.19	101.2
1/25/2008	17:00:00	7.4	10.16	100.9
1/25/2008	17:15:00	7.4	10.13	100.6
1/25/2008	17:30:00	7.4	10.10	100.3

Table 5.57. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	17:45:00	7.4	10.08	100.1
1/25/2008	18:00:00	7.4	10.06	99.8
1/25/2008	18:15:00	7.3	10.05	99.5
1/25/2008	18:30:00	7.3	10.03	99.2
1/25/2008	18:45:00	7.2	10.02	99.0
1/25/2008	19:00:00	7.2	10.00	98.7
1/25/2008	19:15:00	7.2	9.98	98.5
1/25/2008	19:30:00	7.1	9.97	98.3
1/25/2008	19:45:00	7.1	9.96	98.1
1/25/2008	20:00:00	7.0	9.95	97.9
1/25/2008	20:15:00	7.0	9.95	97.7
1/25/2008	20:30:00	7.0	9.94	97.6
1/25/2008	20:45:00	6.9	9.93	97.4
1/25/2008	21:00:00	6.8	9.93	97.2
1/25/2008	21:15:00	6.8	9.93	97.0
1/25/2008	21:30:00	6.7	9.94	96.9
1/25/2008	21:45:00	6.6	9.93	96.7
1/25/2008	22:00:00	6.5	9.93	96.5
1/25/2008	22:15:00	6.5	9.92	96.3
1/25/2008	22:30:00	6.4	9.92	96.2
1/25/2008	22:45:00	6.4	9.92	96.0
1/25/2008	23:00:00	6.3	9.91	95.8
1/25/2008	23:15:00	6.3	9.91	95.7
1/25/2008	23:30:00	6.2	9.91	95.5
1/25/2008	23:45:00	6.2	9.91	95.4
1/26/2008	0:00:00	6.1	9.91	95.2
1/26/2008	0:15:00	6.0	9.91	95.0
1/26/2008	0:30:00	5.9	9.91	94.8
1/26/2008	0:45:00	5.9	9.92	94.7
1/26/2008	1:00:00	5.8	9.92	94.6
1/26/2008	1:15:00	5.7	9.93	94.5
1/26/2008	1:30:00	5.6	9.94	94.4
1/26/2008	1:45:00	5.5	9.95	94.3
1/26/2008	2:00:00	5.5	9.96	94.2
1/26/2008	2:15:00	5.4	9.97	94.1
1/26/2008	2:30:00	5.3	9.99	94.0
1/26/2008	2:45:00	5.2	10.00	93.9
1/26/2008	3:00:00	5.1	10.01	93.8
1/26/2008	3:15:00	5.1	10.03	93.8
1/26/2008	3:30:00	5.0	10.04	93.7
1/26/2008	3:45:00	4.9	10.05	93.7
1/26/2008	4:00:00	4.8	10.06	93.6
1/26/2008	4:15:00	4.8	10.08	93.5
1/26/2008	4:30:00	4.7	10.09	93.5
1/26/2008	4:45:00	4.6	10.10	93.5
1/26/2008	5:00:00	4.6	10.12	93.4

Table 5.57. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2008	5:15:00	4.5	10.01	92.3
1/26/2008	5:30:00	4.4	9.98	91.8
1/26/2008	5:45:00	4.4	9.97	91.6
1/26/2008	6:00:00	4.4	9.94	91.3
1/26/2008	6:15:00	4.3	9.72	89.2
1/26/2008	6:30:00	4.3	9.63	88.4
1/26/2008	6:45:00	4.2	9.64	88.2
1/26/2008	7:00:00	4.2	9.56	87.4
1/26/2008	7:15:00	4.2	9.43	86.3
1/26/2008	7:30:00	4.2	9.40	86.1
1/26/2008	7:45:00	4.2	9.38	85.8
1/26/2008	8:00:00	4.2	9.28	84.9
1/26/2008	8:15:00	4.2	9.21	84.1
1/26/2008	8:30:00	4.0	9.19	83.6
1/26/2008	8:45:00	3.9	9.16	83.1
1/26/2008	9:00:00	3.9	9.90	89.8
1/26/2008	9:15:00	3.9	10.07	91.3
1/26/2008	9:30:00	3.9	9.71	88.2
1/26/2008	9:45:00	4.0	9.54	86.9
1/26/2008	10:00:00	4.1	9.53	86.9
1/26/2008	10:15:00	4.2	10.48	95.9
1/26/2008	10:30:00	4.3	10.37	95.2
1/26/2008	10:45:00	4.5	10.36	95.4
1/26/2008	11:00:00	4.5	10.32	95.3
1/26/2008	11:15:00	4.7	10.19	94.4
1/26/2008	11:30:00	4.7	10.13	93.9

Table 5.58. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**S4-1-22-08**
Setup	**Date**	**(MMDDYY)**	**:**	**1/24/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**64933**
Starting	**Date**	**(MMDDYY)**	**:**	**1/24/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**100000**
Stopping	**Date**	**(MMDDYY)**	**:**	**1/31/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**300**
Circulator	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
1/24/2008	10:00:00	4.3	328	8.19	10.87	99.6
1/24/2008	10:15:00	4.3	326	8.19	10.73	98.6
1/24/2008	10:30:00	4.4	325	8.18	10.69	98.3
1/24/2008	10:45:00	4.5	322	8.18	10.68	98.4
1/24/2008	11:00:00	4.5	313	8.18	10.61	97.9
1/24/2008	11:15:00	4.6	273	8.18	10.59	97.9
1/24/2008	11:30:00	4.6	255	8.19	10.59	97.9
1/24/2008	11:45:00	4.7	286	8.19	10.63	98.4
1/24/2008	12:00:00	4.7	238	8.19	10.62	98.4
1/24/2008	12:15:00	4.8	224	8.20	10.55	97.9
1/24/2008	12:30:00	4.9	226	8.20	10.62	98.8
1/24/2008	12:45:00	5.0	225	8.20	10.57	98.6
1/24/2008	13:00:00	5.1	234	8.21	10.55	98.8
1/24/2008	13:15:00	5.3	236	8.21	10.52	98.9
1/24/2008	13:30:00	5.4	241	8.22	10.46	98.7
1/24/2008	13:45:00	5.5	241	8.22	10.50	99.3
1/24/2008	14:00:00	5.6	243	8.22	10.42	98.7
1/24/2008	14:15:00	5.6	244	8.23	10.45	99.2
1/24/2008	14:30:00	5.7	234	8.23	10.26	97.5
1/24/2008	14:45:00	5.7	240	8.22	10.19	97.0
1/24/2008	15:00:00	5.8	241	8.20	10.03	95.6
1/24/2008	15:15:00	5.8	246	8.19	9.95	94.8
1/24/2008	15:30:00	5.8	252	8.19	9.97	95.0
1/24/2008	15:45:00	5.8	253	8.18	10.06	95.8
1/24/2008	16:00:00	5.7	257	8.19	10.09	96.0
1/24/2008	16:15:00	5.6	251	8.19	10.14	96.3
1/24/2008	16:30:00	5.6	261	8.20	10.20	96.7
1/24/2008	16:45:00	5.6	298	8.20	10.18	96.4
1/24/2008	17:00:00	5.5	279	8.21	10.22	96.8
1/24/2008	17:15:00	5.5	251	8.21	10.16	96.1
1/24/2008	17:30:00	5.5	253	8.21	10.14	95.9
1/24/2008	17:45:00	5.5	250	8.22	10.08	95.4

Table 5.58. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	18:00:00	5.5	254	8.22	10.07	95.4
1/24/2008	18:15:00	5.5	251	8.23	10.14	96.0
1/24/2008	18:30:00	5.5	252	8.23	10.16	96.0
1/24/2008	18:45:00	5.4	244	8.22	10.20	96.3
1/24/2008	19:00:00	5.4	231	8.22	10.16	95.8
1/24/2008	19:15:00	5.4	244	8.24	10.25	96.7
1/24/2008	19:30:00	5.3	254	8.24	10.29	96.9
1/24/2008	19:45:00	5.3	242	8.25	10.16	95.6
1/24/2008	20:00:00	5.3	249	8.24	10.22	96.1
1/24/2008	20:15:00	5.3	243	8.23	10.24	96.3
1/24/2008	20:30:00	5.3	237	8.23	10.24	96.2
1/24/2008	20:45:00	5.2	243	8.23	10.15	95.3
1/24/2008	21:00:00	5.2	248	8.23	10.08	94.6
1/24/2008	21:15:00	5.2	254	8.24	10.29	96.5
1/24/2008	21:30:00	5.1	248	8.24	10.22	95.8
1/24/2008	21:45:00	5.1	242	8.23	10.17	95.2
1/24/2008	22:00:00	5.1	228	8.23	10.14	94.8
1/24/2008	22:15:00	5.0	228	8.23	10.16	94.9
1/24/2008	22:30:00	5.0	227	8.23	10.20	95.2
1/24/2008	22:45:00	4.9	225	8.22	10.30	96.0
1/24/2008	23:00:00	4.9	234	8.22	10.29	95.8
1/24/2008	23:15:00	4.8	231	8.22	10.23	95.1
1/24/2008	23:30:00	4.8	237	8.23	10.20	94.7
1/24/2008	23:45:00	4.8	226	8.23	10.24	95.0
1/25/2008	0:00:00	4.7	231	8.23	10.27	95.2
1/25/2008	0:15:00	4.6	233	8.23	10.26	94.9
1/25/2008	0:30:00	4.6	243	8.22	10.21	94.3
1/25/2008	0:45:00	4.5	244	8.22	10.26	94.6
1/25/2008	1:00:00	4.5	241	8.22	10.17	93.8
1/25/2008	1:15:00	4.5	239	8.22	10.19	93.8
1/25/2008	1:30:00	4.4	235	8.22	10.10	92.9
1/25/2008	1:45:00	4.4	239	8.22	10.22	93.9
1/25/2008	2:00:00	4.4	242	8.21	10.26	94.3
1/25/2008	2:15:00	4.4	237	8.21	10.08	92.5
1/25/2008	2:30:00	4.3	237	8.22	10.03	92.0
1/25/2008	2:45:00	4.3	242	8.21	10.22	93.6
1/25/2008	3:00:00	4.2	244	8.21	10.19	93.3
1/25/2008	3:15:00	4.2	249	8.22	10.21	93.4
1/25/2008	3:30:00	4.1	246	8.22	10.19	93.1
1/25/2008	3:45:00	4.1	246	8.21	10.16	92.7
1/25/2008	4:00:00	4.1	248	8.22	10.19	92.9
1/25/2008	4:15:00	4.0	249	8.22	10.18	92.7
1/25/2008	4:30:00	4.0	254	8.23	10.05	91.4
1/25/2008	4:45:00	4.0	254	8.22	10.28	93.4
1/25/2008	5:00:00	3.9	249	8.23	10.17	92.3
1/25/2008	5:15:00	3.9	251	8.23	10.44	94.7

Table 5.58. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	5:30:00	3.9	253	8.24	10.39	94.1
1/25/2008	5:45:00	3.8	251	8.24	10.31	93.3
1/25/2008	6:00:00	3.8	249	8.25	10.41	94.1
1/25/2008	6:15:00	3.7	230	8.25	10.34	93.3
1/25/2008	6:30:00	3.7	236	8.24	10.29	92.8
1/25/2008	6:45:00	3.6	241	8.24	10.26	92.4
1/25/2008	7:00:00	3.6	247	8.23	10.38	93.4
1/25/2008	7:15:00	3.5	248	8.23	10.37	93.2
1/25/2008	7:30:00	3.5	251	8.23	10.45	93.8
1/25/2008	7:45:00	3.5	249	8.24	10.48	94.0
1/25/2008	8:00:00	3.5	248	8.23	10.45	93.7
1/25/2008	8:15:00	3.4	253	8.24	10.39	93.1
1/25/2008	8:30:00	3.4	251	8.23	10.52	94.3
1/25/2008	8:45:00	3.5	249	8.23	10.52	94.3
1/25/2008	9:00:00	3.5	250	8.23	10.64	95.6
1/25/2008	9:15:00	3.6	255	8.24	10.58	95.2
1/25/2008	9:30:00	3.6	251	8.24	10.67	96.2
1/25/2008	9:45:00	3.7	255	8.23	10.60	95.6
1/25/2008	10:00:00	3.8	257	8.23	10.63	96.2
1/25/2008	10:15:00	3.9	260	8.23	10.72	97.3
1/25/2008	10:30:00	4.1	260	8.23	10.67	97.2
1/25/2008	10:45:00	4.3	255	8.24	10.61	97.2
1/25/2008	11:00:00	4.5	254	8.23	10.63	97.9
1/25/2008	11:15:00	4.7	238	8.24	10.63	98.5
1/25/2008	11:30:00	4.9	240	8.24	10.59	98.6
1/25/2008	11:45:00	5.1	239	8.24	10.51	98.4
1/25/2008	12:00:00	5.2	240	8.24	10.54	99.0
1/25/2008	12:15:00	5.4	246	8.24	10.50	99.2
1/25/2008	12:30:00	5.6	248	8.24	10.42	98.9
1/25/2008	12:45:00	5.8	250	8.23	10.36	98.9
1/25/2008	13:00:00	6.0	254	8.23	10.33	98.9
1/25/2008	13:15:00	6.2	246	8.23	10.41	100.2
1/25/2008	13:30:00	6.4	250	8.24	10.31	99.7
1/25/2008	13:45:00	6.4	258	8.24	10.28	99.6
1/25/2008	14:00:00	6.6	254	8.24	10.24	99.7
1/25/2008	14:15:00	6.8	253	8.24	10.17	99.4
1/25/2008	14:30:00	6.9	246	8.24	10.21	100.1
1/25/2008	14:45:00	7.0	244	8.24	10.15	99.6
1/25/2008	15:00:00	7.0	241	8.23	10.13	99.5
1/25/2008	15:15:00	7.0	250	8.24	10.16	99.8
1/25/2008	15:30:00	7.0	247	8.23	10.05	98.7
1/25/2008	15:45:00	7.0	259	8.24	10.11	99.3
1/25/2008	16:00:00	7.0	267	8.24	10.12	99.4
1/25/2008	16:15:00	7.0	266	8.25	9.98	98.0
1/25/2008	16:30:00	7.0	260	8.24	10.01	98.3
1/25/2008	16:45:00	7.0	264	8.24	9.98	98.1

Table 5.58. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	17:00:00	7.0	262	8.25	9.91	97.4
1/25/2008	17:15:00	7.0	261	8.25	9.94	97.7
1/25/2008	17:30:00	7.0	269	8.25	9.92	97.5
1/25/2008	17:45:00	7.0	287	8.26	9.85	96.8
1/25/2008	18:00:00	7.0	293	8.28	9.94	97.5
1/25/2008	18:15:00	6.9	291	8.27	9.89	96.9
1/25/2008	18:30:00	6.9	293	8.28	9.89	96.8
1/25/2008	18:45:00	6.8	292	8.27	9.93	97.1
1/25/2008	19:00:00	6.8	294	8.28	9.90	96.7
1/25/2008	19:15:00	6.7	296	8.29	9.93	97.0
1/25/2008	19:30:00	6.7	296	8.28	9.93	96.9
1/25/2008	19:45:00	6.7	282	8.27	9.96	97.0
1/25/2008	20:00:00	6.6	259	8.27	9.93	96.6
1/25/2008	20:15:00	6.6	270	8.28	9.96	96.8
1/25/2008	20:30:00	6.5	275	8.27	10.00	97.1
1/25/2008	20:45:00	6.5	282	8.26	9.96	96.6
1/25/2008	21:00:00	6.4	284	8.25	10.00	96.8
1/25/2008	21:15:00	6.3	274	8.26	9.95	96.1
1/25/2008	21:30:00	6.3	231	8.25	9.96	96.1
1/25/2008	21:45:00	6.2	215	8.24	9.91	95.4
1/25/2008	22:00:00	6.1	222	8.25	10.01	96.1
1/25/2008	22:15:00	6.1	231	8.24	9.95	95.5
1/25/2008	22:30:00	6.0	250	8.23	10.01	96.0
1/25/2008	22:45:00	6.0	249	8.23	10.02	95.9
1/25/2008	23:00:00	5.9	227	8.23	10.02	95.8
1/25/2008	23:15:00	5.9	213	8.22	10.03	95.8
1/25/2008	23:30:00	5.8	211	8.22	9.97	95.1
1/25/2008	23:45:00	5.7	221	8.22	10.00	95.1
1/26/2008	0:00:00	5.7	225	8.21	10.03	95.2
1/26/2008	0:15:00	5.6	280	8.21	10.05	95.3
1/26/2008	0:30:00	5.5	246	8.21	10.01	94.7
1/26/2008	0:45:00	5.4	244	8.20	10.01	94.5
1/26/2008	1:00:00	5.4	245	8.20	10.03	94.5
1/26/2008	1:15:00	5.3	240	8.20	10.08	94.8
1/26/2008	1:30:00	5.2	264	8.20	10.09	94.8
1/26/2008	1:45:00	5.1	298	8.21	10.13	94.9
1/26/2008	2:00:00	5.0	301	8.22	10.21	95.5
1/26/2008	2:15:00	4.9	297	8.21	10.21	95.3
1/26/2008	2:30:00	4.9	295	8.21	10.30	95.8
1/26/2008	2:45:00	4.8	273	8.22	10.24	95.1
1/26/2008	3:00:00	4.7	243	8.23	10.28	95.2
1/26/2008	3:15:00	4.6	245	8.22	10.34	95.7
1/26/2008	3:30:00	4.5	250	8.22	10.40	96.0
1/26/2008	3:45:00	4.5	247	8.21	10.38	95.6
1/26/2008	4:00:00	4.4	253	8.21	10.33	95.0
1/26/2008	4:15:00	4.3	201	8.21	10.38	95.3

Table 5.58. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2008	4:30:00	4.3	181	8.21	10.40	95.3
1/26/2008	4:45:00	4.2	180	8.22	10.47	95.7
1/26/2008	5:00:00	4.1	177	8.21	10.40	94.9
1/26/2008	5:15:00	4.1	188	8.21	10.37	94.4
1/26/2008	5:30:00	4.0	189	8.20	10.35	94.1
1/26/2008	5:45:00	3.9	190	8.20	10.46	94.9
1/26/2008	6:00:00	3.8	190	8.21	10.49	95.0
1/26/2008	6:15:00	3.8	192	8.20	10.53	95.2
1/26/2008	6:30:00	3.7	200	8.20	10.40	93.8
1/26/2008	6:45:00	3.6	199	8.20	10.53	94.8
1/26/2008	7:00:00	3.6	196	8.20	10.53	94.6
1/26/2008	7:15:00	3.5	193	8.20	10.58	94.9
1/26/2008	7:30:00	3.4	191	8.20	10.63	95.2
1/26/2008	7:45:00	3.4	181	8.20	10.58	94.7
1/26/2008	8:00:00	3.3	192	8.19	10.61	94.9
1/26/2008	8:15:00	3.3	200	8.20	10.59	94.5
1/26/2008	8:30:00	3.3	215	8.19	10.63	94.9
1/26/2008	8:45:00	3.3	228	8.19	10.69	95.5
1/26/2008	9:00:00	3.4	274	8.21	10.69	95.6
1/26/2008	9:15:00	3.4	276	8.20	10.71	96.0
1/26/2008	9:30:00	3.5	274	8.19	10.81	97.0
1/26/2008	9:45:00	3.6	273	8.19	10.74	96.6
1/26/2008	10:00:00	3.7	264	8.21	10.76	97.0
1/26/2008	10:15:00	3.8	254	8.20	10.58	95.7
1/26/2008	10:30:00	3.9	258	8.20	10.65	96.7
1/26/2008	10:45:00	4.0	189	8.22	10.62	96.7
1/26/2008	11:00:00	4.2	166	8.21	10.69	97.7
1/26/2008	11:15:00	4.3	156	8.20	10.74	98.5
1/26/2008	11:30:00	4.4	157	8.20	10.63	97.8

Table 5.59. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45473**	**Name**	**:**	**Nike**
Log File Name			**:**	**Site5_1-22-08ANI**
Setup Date (MMDDYY)			**:**	**1/22/2008**
Setup Time (HHMMSS)			**:**	**15:36:43**
Starting Date (MMDDYY)			**:**	**1/22/2008**
Starting Time (HHMMSS)			**:**	**16:00:00**
Stopping Date (MMDDYY)			**:**	**1/26/2008**
Stopping Time (HHMMSS)			**:**	**13:06:46**
Measurement Interval (HHMMSS)			**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
1/22/2008	17:00:00	5.66	10.33	96.7
1/22/2008	17:15:00	5.67	10.30	96.5
1/22/2008	17:30:00	5.65	10.28	96.3
1/22/2008	17:45:00	5.63	10.25	96.0
1/22/2008	18:00:00	5.62	10.23	95.8
1/22/2008	18:15:00	5.61	10.21	95.5
1/22/2008	18:30:00	5.60	10.19	95.3
1/22/2008	18:45:00	5.58	10.17	95.0
1/22/2008	19:00:00	5.56	10.14	94.8
1/22/2008	19:15:00	5.53	10.12	94.5
1/22/2008	19:30:00	5.51	10.10	94.3
1/22/2008	19:45:00	5.48	10.09	94.1
1/22/2008	20:00:00	5.46	10.07	93.8
1/22/2008	20:15:00	5.43	10.05	93.6
1/22/2008	20:30:00	5.39	10.04	93.4
1/22/2008	20:45:00	5.36	10.02	93.2
1/22/2008	21:00:00	5.32	10.01	92.9
1/22/2008	21:15:00	5.27	10.00	92.7
1/22/2008	21:30:00	5.22	9.99	92.5
1/22/2008	21:45:00	5.17	9.98	92.3
1/22/2008	22:00:00	5.11	9.98	92.2
1/22/2008	22:15:00	5.05	9.97	92.0
1/22/2008	22:30:00	4.98	9.97	91.8
1/22/2008	22:45:00	4.92	9.97	91.7
1/22/2008	23:00:00	4.86	9.97	91.5
1/22/2008	23:15:00	4.79	9.98	91.4
1/22/2008	23:30:00	4.73	9.98	91.3
1/22/2008	23:45:00	4.66	9.98	91.1
1/23/2008	0:00:00	4.59	9.99	91.0
1/23/2008	0:15:00	4.53	10.00	91.0
1/23/2008	0:30:00	4.45	10.01	90.8
1/23/2008	0:45:00	4.38	10.02	90.8
1/23/2008	1:00:00	4.31	10.02	90.7
1/23/2008	1:15:00	4.23	10.03	90.6
1/23/2008	1:30:00	4.16	10.05	90.5

Table 5.59. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2008	1:45:00	4.08	10.06	90.4
1/23/2008	2:00:00	4.00	10.07	90.3
1/23/2008	2:15:00	3.92	10.08	90.2
1/23/2008	2:30:00	3.82	10.09	90.1
1/23/2008	2:45:00	3.74	10.10	90.0
1/23/2008	3:00:00	3.66	10.11	89.9
1/23/2008	3:15:00	3.59	10.13	89.9
1/23/2008	3:30:00	3.51	10.14	89.8
1/23/2008	3:45:00	3.43	10.15	89.7
1/23/2008	4:00:00	3.36	10.16	89.6
1/23/2008	4:15:00	3.28	10.18	89.6
1/23/2008	4:30:00	3.22	10.19	89.5
1/23/2008	4:45:00	3.16	10.20	89.5
1/23/2008	5:00:00	3.08	10.21	89.4
1/23/2008	5:15:00	3.03	10.22	89.4
1/23/2008	5:30:00	2.96	10.24	89.3
1/23/2008	5:45:00	2.89	10.25	89.3
1/23/2008	6:00:00	2.83	10.26	89.2
1/23/2008	6:15:00	2.77	10.28	89.2
1/23/2008	6:30:00	2.70	10.29	89.2
1/23/2008	6:45:00	2.63	10.30	89.1
1/23/2008	7:00:00	2.57	10.31	89.1
1/23/2008	7:15:00	2.52	10.33	89.1
1/23/2008	7:30:00	2.46	10.34	89.0
1/23/2008	7:45:00	2.41	10.35	89.0
1/23/2008	8:00:00	2.36	10.37	89.0
1/23/2008	8:15:00	2.33	10.38	89.1
1/23/2008	8:30:00	2.31	10.40	89.1
1/23/2008	8:45:00	2.29	10.41	89.2
1/23/2008	9:00:00	2.32	10.43	89.4
1/23/2008	9:15:00	2.36	10.45	89.7
1/23/2008	9:30:00	2.43	10.46	90.0
1/23/2008	9:45:00	2.51	10.48	90.3
1/23/2008	10:00:00	2.61	10.49	90.7
1/23/2008	10:15:00	2.69	10.50	91.0
1/23/2008	10:30:00	2.79	10.51	91.3
1/23/2008	10:45:00	2.92	10.52	91.7
1/23/2008	11:00:00	3.04	10.53	92.1
1/23/2008	11:15:00	3.19	10.53	92.5
1/23/2008	11:30:00	3.34	10.54	92.9
1/23/2008	11:45:00	3.50	10.54	93.4
1/23/2008	12:00:00	3.67	10.54	93.8
1/23/2008	12:15:00	3.83	10.54	94.1
1/23/2008	12:30:00	4.00	10.53	94.5
1/23/2008	12:45:00	4.17	10.53	94.9
1/23/2008	13:00:00	4.33	10.53	95.3

Table 5.59. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2008	13:15:00	4.49	10.52	95.6
1/23/2008	13:30:00	4.66	10.51	96.0
1/23/2008	13:45:00	4.81	10.50	96.3
1/23/2008	14:00:00	4.94	10.50	96.5
1/23/2008	14:15:00	5.08	10.49	96.8
1/23/2008	14:30:00	5.21	10.48	97.0
1/23/2008	14:45:00	5.32	10.46	97.2
1/23/2008	15:00:00	5.42	10.45	97.3
1/23/2008	15:15:00	5.51	10.43	97.3
1/23/2008	15:30:00	5.56	10.42	97.3
1/23/2008	15:45:00	5.64	10.40	97.4
1/23/2008	16:00:00	5.70	10.38	97.3
1/23/2008	16:15:00	5.74	10.36	97.2
1/23/2008	16:30:00	5.77	10.34	97.1
1/23/2008	16:45:00	5.79	10.32	97.0
1/23/2008	17:00:00	5.79	10.29	96.7
1/23/2008	17:15:00	5.79	10.27	96.5
1/23/2008	17:30:00	5.79	10.24	96.3
1/23/2008	17:45:00	5.79	10.22	96.1
1/23/2008	18:00:00	5.78	10.19	95.8
1/23/2008	18:15:00	5.77	10.17	95.5
1/23/2008	18:30:00	5.75	10.15	95.3
1/23/2008	18:45:00	5.72	10.13	95.0
1/23/2008	19:00:00	5.70	10.11	94.8
1/23/2008	19:15:00	5.68	10.09	94.6
1/23/2008	19:30:00	5.67	10.07	94.4
1/23/2008	19:45:00	5.67	10.05	94.2
1/23/2008	20:00:00	5.64	10.04	94.0
1/23/2008	20:15:00	5.62	10.02	93.8
1/23/2008	20:30:00	5.58	10.01	93.6
1/23/2008	20:45:00	5.55	10.00	93.4
1/23/2008	21:00:00	5.51	9.99	93.2
1/23/2008	21:15:00	5.49	9.98	93.0
1/23/2008	21:30:00	5.45	9.97	92.9
1/23/2008	21:45:00	5.42	9.96	92.7
1/23/2008	22:00:00	5.38	9.96	92.6
1/23/2008	22:15:00	5.34	9.95	92.5
1/23/2008	22:30:00	5.32	9.95	92.4
1/23/2008	22:45:00	5.28	9.95	92.3
1/23/2008	23:00:00	5.26	9.95	92.2
1/23/2008	23:15:00	5.22	9.95	92.2
1/23/2008	23:30:00	5.19	9.95	92.1
1/23/2008	23:45:00	5.14	9.95	92.0
1/24/2008	0:00:00	5.10	9.95	91.9
1/24/2008	0:15:00	5.07	9.96	91.9
1/24/2008	0:30:00	5.02	9.96	91.8

Table 5.59. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	0:45:00	4.98	9.97	91.7
1/24/2008	1:00:00	4.93	9.97	91.7
1/24/2008	1:15:00	4.88	9.97	91.5
1/24/2008	1:30:00	4.81	9.98	91.4
1/24/2008	1:45:00	4.74	9.98	91.3
1/24/2008	2:00:00	4.70	9.99	91.3
1/24/2008	2:15:00	4.66	10.00	91.3
1/24/2008	2:30:00	4.61	10.00	91.2
1/24/2008	2:45:00	4.56	10.01	91.1
1/24/2008	3:00:00	4.50	10.01	91.0
1/24/2008	3:15:00	4.43	10.02	90.9
1/24/2008	3:30:00	4.40	10.03	90.9
1/24/2008	3:45:00	4.37	10.04	90.9
1/24/2008	4:00:00	4.34	10.04	90.9
1/24/2008	4:15:00	4.32	10.05	90.9
1/24/2008	4:30:00	4.29	10.05	90.9
1/24/2008	4:45:00	4.24	10.06	90.8
1/24/2008	5:00:00	4.21	10.06	90.8
1/24/2008	5:15:00	4.17	10.07	90.7
1/24/2008	5:30:00	4.14	10.07	90.7
1/24/2008	5:45:00	4.11	10.08	90.7
1/24/2008	6:00:00	4.08	10.08	90.7
1/24/2008	6:15:00	4.06	10.09	90.7
1/24/2008	6:30:00	4.02	10.10	90.6
1/24/2008	6:45:00	3.99	10.10	90.6
1/24/2008	7:00:00	3.96	10.11	90.6
1/24/2008	7:15:00	3.92	10.12	90.6
1/24/2008	7:30:00	3.88	10.13	90.6
1/24/2008	7:45:00	3.86	10.14	90.6
1/24/2008	8:00:00	3.86	10.14	90.7
1/24/2008	8:15:00	3.87	10.15	90.8
1/24/2008	8:30:00	3.88	10.16	90.9
1/24/2008	8:45:00	3.89	10.17	91.0
1/24/2008	9:00:00	3.91	10.18	91.1
1/24/2008	9:15:00	3.95	10.19	91.3
1/24/2008	9:30:00	3.96	10.19	91.4
1/24/2008	9:45:00	3.99	10.20	91.5
1/24/2008	10:00:00	4.01	10.21	91.6
1/24/2008	10:15:00	4.03	10.22	91.7
1/24/2008	10:30:00	4.06	10.22	91.8
1/24/2008	10:45:00	4.07	10.23	91.9
1/24/2008	11:00:00	4.13	10.23	92.1
1/24/2008	11:15:00	4.19	10.24	92.3
1/24/2008	11:30:00	4.27	10.24	92.6
1/24/2008	11:45:00	4.38	10.25	92.9
1/24/2008	12:00:00	4.41	10.25	93.0

Table 5.59. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	12:15:00	4.48	10.25	93.2
1/24/2008	12:30:00	4.52	10.26	93.3
1/24/2008	12:45:00	4.53	10.26	93.4
1/24/2008	13:00:00	4.59	10.27	93.6
1/24/2008	13:15:00	4.83	10.26	94.1
1/24/2008	13:30:00	4.97	10.26	94.4
1/24/2008	13:45:00	5.04	10.26	94.6
1/24/2008	14:00:00	5.10	10.26	94.7
1/24/2008	14:15:00	5.08	10.25	94.6
1/24/2008	14:30:00	5.04	10.25	94.6
1/24/2008	14:45:00	5.06	10.26	94.6
1/24/2008	15:00:00	5.13	10.27	94.9
1/24/2008	15:15:00	5.22	10.27	95.1
1/24/2008	15:30:00	5.28	10.26	95.2
1/24/2008	15:45:00	5.33	10.25	95.2
1/24/2008	16:00:00	5.37	10.24	95.2
1/24/2008	16:15:00	5.46	10.23	95.3
1/24/2008	16:30:00	5.51	10.21	95.3
1/24/2008	16:45:00	5.52	10.20	95.2
1/24/2008	17:00:00	5.49	10.19	95.0
1/24/2008	17:15:00	5.42	10.18	94.8
1/24/2008	17:30:00	5.33	10.17	94.5
1/24/2008	17:45:00	5.26	10.17	94.3
1/24/2008	18:00:00	5.20	10.16	94.1
1/24/2008	18:15:00	5.17	10.16	93.9
1/24/2008	18:30:00	5.15	10.15	93.8
1/24/2008	18:45:00	5.14	10.14	93.7
1/24/2008	19:00:00	5.13	10.13	93.7
1/24/2008	19:15:00	5.12	10.13	93.6
1/24/2008	19:30:00	5.11	10.12	93.5
1/24/2008	19:45:00	5.11	10.11	93.4
1/24/2008	20:00:00	5.09	10.10	93.3
1/24/2008	20:15:00	5.08	10.09	93.1
1/24/2008	20:30:00	5.06	10.09	93.0
1/24/2008	20:45:00	5.03	10.08	92.9
1/24/2008	21:00:00	5.01	10.07	92.8
1/24/2008	21:15:00	4.97	10.07	92.7
1/24/2008	21:30:00	4.94	10.06	92.5
1/24/2008	21:45:00	4.91	10.06	92.4
1/24/2008	22:00:00	4.88	10.06	92.3
1/24/2008	22:15:00	4.84	10.05	92.2
1/24/2008	22:30:00	4.79	10.05	92.1
1/24/2008	22:45:00	4.76	10.05	92.0
1/24/2008	23:00:00	4.72	10.05	91.9
1/24/2008	23:15:00	4.68	10.05	91.8
1/24/2008	23:30:00	4.64	10.05	91.7

Table 5.59. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	23:45:00	4.61	10.05	91.6
1/25/2008	0:00:00	4.59	10.05	91.6
1/25/2008	0:15:00	4.56	10.06	91.5
1/25/2008	0:30:00	4.51	10.06	91.5
1/25/2008	0:45:00	4.49	10.06	91.4
1/25/2008	1:00:00	4.45	10.06	91.3
1/25/2008	1:15:00	4.42	10.06	91.3
1/25/2008	1:30:00	4.38	10.07	91.2
1/25/2008	1:45:00	4.36	10.07	91.2
1/25/2008	2:00:00	4.31	10.07	91.1
1/25/2008	2:15:00	4.28	10.07	91.1
1/25/2008	2:30:00	4.24	10.08	91.0
1/25/2008	2:45:00	4.20	10.08	90.9
1/25/2008	3:00:00	4.17	10.09	90.9
1/25/2008	3:15:00	4.13	10.09	90.8
1/25/2008	3:30:00	4.09	10.10	90.8
1/25/2008	3:45:00	4.07	10.10	90.8
1/25/2008	4:00:00	4.03	10.11	90.8
1/25/2008	4:15:00	3.99	10.12	90.7
1/25/2008	4:30:00	3.95	10.12	90.7
1/25/2008	4:45:00	3.91	10.13	90.6
1/25/2008	5:00:00	3.86	10.13	90.6
1/25/2008	5:15:00	3.82	10.14	90.5
1/25/2008	5:30:00	3.77	10.15	90.5
1/25/2008	5:45:00	3.72	10.15	90.4
1/25/2008	6:00:00	3.67	10.16	90.4
1/25/2008	6:15:00	3.62	10.17	90.3
1/25/2008	6:30:00	3.58	10.18	90.3
1/25/2008	6:45:00	3.53	10.18	90.2
1/25/2008	7:00:00	3.49	10.19	90.2
1/25/2008	7:15:00	3.45	10.20	90.2
1/25/2008	7:30:00	3.41	10.21	90.2
1/25/2008	7:45:00	3.38	10.22	90.2
1/25/2008	8:00:00	3.34	10.23	90.2
1/25/2008	8:15:00	3.32	10.25	90.3
1/25/2008	8:30:00	3.31	10.26	90.4
1/25/2008	8:45:00	3.30	10.28	90.5
1/25/2008	9:00:00	3.32	10.29	90.7
1/25/2008	9:15:00	3.37	10.31	90.9
1/25/2008	9:30:00	3.42	10.32	91.2
1/25/2008	9:45:00	3.48	10.34	91.4
1/25/2008	10:00:00	3.56	10.35	91.8
1/25/2008	10:15:00	3.64	10.36	92.1
1/25/2008	10:30:00	3.75	10.38	92.5
1/25/2008	10:45:00	3.87	10.39	92.9
1/25/2008	11:00:00	3.99	10.40	93.3

Table 5.59. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	11:15:00	4.13	10.42	93.8
1/25/2008	11:30:00	4.28	10.42	94.2
1/25/2008	11:45:00	4.42	10.43	94.6
1/25/2008	12:00:00	4.58	10.44	95.1
1/25/2008	12:15:00	4.73	10.44	95.5
1/25/2008	12:30:00	4.89	10.45	96.0
1/25/2008	12:45:00	5.04	10.45	96.3
1/25/2008	13:00:00	5.21	10.45	96.7
1/25/2008	13:15:00	5.34	10.44	97.0
1/25/2008	13:30:00	5.40	10.43	97.1
1/25/2008	13:45:00	5.59	10.43	97.5
1/25/2008	14:00:00	5.77	10.42	97.9
1/25/2008	14:15:00	5.91	10.41	98.1
1/25/2008	14:30:00	5.97	10.39	98.1
1/25/2008	14:45:00	6.03	10.38	98.1
1/25/2008	15:00:00	6.05	10.37	98.1
1/25/2008	15:15:00	6.14	10.36	98.2
1/25/2008	15:30:00	6.33	10.33	98.4
1/25/2008	15:45:00	6.45	10.30	98.5
1/25/2008	16:00:00	6.48	10.28	98.3
1/25/2008	16:15:00	6.47	10.26	98.1
1/25/2008	16:30:00	6.45	10.25	97.9
1/25/2008	16:45:00	6.48	10.22	97.8
1/25/2008	17:00:00	6.51	10.20	97.6
1/25/2008	17:15:00	6.51	10.17	97.4
1/25/2008	17:30:00	6.49	10.15	97.1
1/25/2008	17:45:00	6.50	10.13	96.9
1/25/2008	18:00:00	6.51	10.10	96.7
1/25/2008	18:15:00	6.54	10.07	96.5
1/25/2008	18:30:00	6.55	10.05	96.3
1/25/2008	18:45:00	6.53	10.03	96.1
1/25/2008	19:00:00	6.49	10.01	95.8
1/25/2008	19:15:00	6.45	9.99	95.5
1/25/2008	19:30:00	6.44	9.98	95.3
1/25/2008	19:45:00	6.43	9.95	95.1
1/25/2008	20:00:00	6.44	9.93	94.9
1/25/2008	20:15:00	6.42	9.91	94.7
1/25/2008	20:30:00	6.42	9.89	94.5
1/25/2008	20:45:00	6.40	9.88	94.3
1/25/2008	21:00:00	6.36	9.87	94.1
1/25/2008	21:15:00	6.32	9.86	93.9
1/25/2008	21:30:00	6.27	9.86	93.8
1/25/2008	21:45:00	6.20	9.85	93.6
1/25/2008	22:00:00	6.15	9.85	93.4
1/25/2008	22:15:00	6.09	9.84	93.2
1/25/2008	22:30:00	6.04	9.84	93.1

Table 5.59. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	22:45:00	5.98	9.84	92.9
1/25/2008	23:00:00	5.95	9.80	92.4
1/25/2008	23:15:00	5.94	9.76	92.1
1/25/2008	23:30:00	5.93	9.66	91.1
1/25/2008	23:45:00	5.89	9.63	90.7
1/26/2008	0:00:00	5.84	9.86	92.7
1/26/2008	0:15:00	5.44	9.90	92.2
1/26/2008	0:30:00	5.32	9.92	92.1
1/26/2008	0:45:00	5.22	9.93	92.0
1/26/2008	1:00:00	5.13	9.94	91.9
1/26/2008	1:15:00	5.04	9.95	91.8
1/26/2008	1:30:00	4.98	9.96	91.7
1/26/2008	1:45:00	4.91	9.97	91.6
1/26/2008	2:00:00	4.85	9.97	91.5
1/26/2008	2:15:00	4.77	9.98	91.4
1/26/2008	2:30:00	4.69	9.99	91.3
1/26/2008	2:45:00	4.62	10.00	91.2
1/26/2008	3:00:00	4.54	10.01	91.1
1/26/2008	3:15:00	4.47	10.03	91.1
1/26/2008	3:30:00	4.41	10.04	91.0
1/26/2008	3:45:00	4.33	10.05	90.9
1/26/2008	4:00:00	4.27	10.06	90.9
1/26/2008	4:15:00	4.20	10.07	90.8
1/26/2008	4:30:00	4.13	10.08	90.8
1/26/2008	4:45:00	4.06	10.09	90.7
1/26/2008	5:00:00	3.99	10.11	90.6
1/26/2008	5:15:00	3.92	10.12	90.6
1/26/2008	5:30:00	3.85	10.13	90.5
1/26/2008	5:45:00	3.78	10.14	90.5
1/26/2008	6:00:00	3.71	10.15	90.4
1/26/2008	6:15:00	3.63	10.17	90.4
1/26/2008	6:30:00	3.57	10.18	90.3
1/26/2008	6:45:00	3.52	10.19	90.2
1/26/2008	7:00:00	3.52	10.14	89.8
1/26/2008	7:15:00	3.38	10.21	90.1
1/26/2008	7:30:00	3.32	10.22	90.1
1/26/2008	7:45:00	3.28	10.24	90.1
1/26/2008	8:00:00	3.26	10.25	90.2
1/26/2008	8:15:00	3.24	10.26	90.2
1/26/2008	8:30:00	3.24	10.27	90.3
1/26/2008	8:45:00	3.26	10.29	90.5
1/26/2008	9:00:00	3.29	10.30	90.7
1/26/2008	9:15:00	3.33	10.32	90.9
1/26/2008	9:30:00	3.40	10.33	91.2
1/26/2008	9:45:00	3.48	10.34	91.5
1/26/2008	10:00:00	3.57	10.36	91.8

Table 5.60. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40183**	**Name**	**:**	**Marge**
Log	**File**	**Name**	**:**	**Part of S5-1-22-08**
Setup	**Date**	**(MMDDYY)**	**:**	**1/22/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**152847**
Starting	**Date**	**(MMDDYY)**	**:**	**1/22/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**152847**
Stopping	**Date**	**(MMDDYY)**	**:**	**1/31/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
1/22/2008	16:58:47	5.5	424	8.32	9.80	91.4
1/22/2008	17:13:47	5.5	425	8.35	9.90	92.5
1/22/2008	17:28:47	5.6	426	8.36	9.88	92.4
1/22/2008	17:43:47	5.6	426	8.37	9.86	92.2
1/22/2008	17:58:47	5.6	426	8.38	9.86	92.2
1/22/2008	18:13:47	5.6	427	8.38	9.84	92.1
1/22/2008	18:28:47	5.6	427	8.38	9.81	91.7
1/22/2008	18:43:47	5.6	427	8.38	9.77	91.3
1/22/2008	18:58:47	5.6	427	8.40	9.76	91.2
1/22/2008	19:13:47	5.5	426	8.40	9.73	90.9
1/22/2008	19:28:47	5.5	426	8.40	9.72	90.8
1/22/2008	19:43:47	5.5	426	8.41	9.68	90.4
1/22/2008	19:58:47	5.5	425	8.41	9.64	90.0
1/22/2008	20:13:47	5.5	425	8.41	9.62	89.7
1/22/2008	20:28:47	5.4	425	8.41	9.63	89.7
1/22/2008	20:43:47	5.4	424	8.42	9.55	88.9
1/22/2008	20:58:47	5.4	423	8.42	9.56	89.0
1/22/2008	21:13:47	5.3	423	8.42	9.53	88.6
1/22/2008	21:28:47	5.3	421	8.42	9.51	88.4
1/22/2008	21:43:47	5.3	422	8.42	9.50	88.2
1/22/2008	21:58:47	5.2	421	8.42	9.48	87.9
1/22/2008	22:13:47	5.2	418	8.42	9.48	87.8
1/22/2008	22:28:47	5.1	418	8.42	9.45	87.4
1/22/2008	22:43:47	5.1	418	8.43	9.43	87.0
1/22/2008	22:58:47	5.0	419	8.43	9.47	87.4
1/22/2008	23:13:47	5.0	417	8.43	9.43	86.9
1/22/2008	23:28:47	4.9	417	8.43	9.43	86.7
1/22/2008	23:43:47	4.8	416	8.43	9.42	86.5
1/22/2008	23:58:47	4.8	415	8.43	9.41	86.3
1/22/2008	0:13:47	4.7	415	8.43	9.44	86.4
1/22/2008	0:28:47	4.6	414	8.44	9.42	86.1
1/22/2008	0:43:47	4.6	413	8.44	9.41	85.8

Table 5.60. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/22/2008	0:58:47	4.5	412	8.44	9.44	85.9
1/23/2008	1:13:47	4.5	411	8.44	9.42	85.5
1/23/2008	1:28:47	4.4	411	8.44	9.42	85.4
1/23/2008	1:43:47	4.3	411	8.44	9.40	85.1
1/23/2008	1:58:47	4.2	410	8.45	9.42	85.1
1/23/2008	2:13:47	4.2	410	8.44	9.46	85.3
1/23/2008	2:28:47	4.1	409	8.44	9.45	85.0
1/23/2008	2:43:47	4.0	408	8.45	9.43	84.7
1/23/2008	2:58:47	3.9	407	8.45	9.46	84.8
1/23/2008	3:13:47	3.8	406	8.45	9.51	85.0
1/23/2008	3:28:47	3.8	407	8.44	9.54	85.1
1/23/2008	3:43:47	3.7	406	8.45	9.55	85.0
1/23/2008	3:58:47	3.6	405	8.45	9.57	85.0
1/23/2008	4:13:47	3.5	405	8.45	9.58	84.9
1/23/2008	4:28:47	3.4	404	8.45	9.59	84.8
1/23/2008	4:43:47	3.4	403	8.45	9.60	84.7
1/23/2008	4:58:47	3.3	402	8.45	9.63	84.8
1/23/2008	5:13:47	3.2	402	8.45	9.61	84.5
1/23/2008	5:28:47	3.2	402	8.45	9.65	84.7
1/23/2008	5:43:47	3.1	402	8.45	9.68	84.8
1/23/2008	5:58:47	3.0	403	8.45	9.71	84.9
1/23/2008	6:13:47	2.9	400	8.45	9.70	84.7
1/23/2008	6:28:47	2.9	402	8.45	9.72	84.7
1/23/2008	6:43:47	2.8	402	8.45	9.75	84.8
1/23/2008	6:58:47	2.8	403	8.45	9.76	84.8
1/23/2008	7:13:47	2.7	404	8.45	9.75	84.5
1/23/2008	7:28:47	2.6	404	8.46	9.77	84.5
1/23/2008	7:43:47	2.6	405	8.45	9.80	84.6
1/23/2008	7:58:47	2.5	408	8.45	9.74	84.0
1/23/2008	8:13:47	2.4	405	8.46	9.79	84.2
1/23/2008	8:28:47	2.4	406	8.45	9.88	84.9
1/23/2008	8:43:47	2.3	409	8.46	9.82	84.3
1/23/2008	8:58:47	2.3	408	8.46	9.82	84.2
1/23/2008	9:13:47	2.3	409	8.45	9.86	84.5
1/23/2008	9:28:47	2.2	407	8.46	9.81	84.0
1/23/2008	9:43:47	2.2	411	8.46	9.86	84.4
1/23/2008	9:58:47	2.2	411	8.46	9.87	84.5
1/23/2008	10:13:47	2.3	411	8.45	9.88	84.7
1/23/2008	10:28:47	2.3	411	8.46	9.96	85.5
1/23/2008	10:43:47	2.4	413	8.46	10.00	86.1
1/23/2008	10:58:47	2.5	413	8.46	10.00	86.3
1/23/2008	11:13:47	2.6	412	8.46	10.00	86.4
1/23/2008	11:28:47	2.7	413	8.46	10.01	86.8
1/23/2008	11:43:47	2.8	414	8.46	10.01	87.1
1/23/2008	11:58:47	3.0	414	8.46	10.00	87.3
1/23/2008	12:13:47	3.1	414	8.47	9.99	87.5

Table 5.60. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2008	12:28:47	3.2	414	8.46	9.92	87.3
1/23/2008	12:43:47	3.4	413	8.46	9.94	87.8
1/23/2008	12:58:47	3.6	415	8.46	9.93	88.1
1/23/2008	13:13:47	3.7	416	8.46	10.02	89.4
1/23/2008	13:28:47	3.9	415	8.46	9.99	89.4
1/23/2008	13:43:47	4.1	416	8.46	9.99	89.8
1/23/2008	13:58:47	4.2	407	8.46	10.00	90.4
1/23/2008	14:13:47	4.4	413	8.46	9.98	90.5
1/23/2008	14:28:47	4.6	416	8.46	9.95	90.6
1/23/2008	14:43:47	4.7	416	8.46	9.94	90.9
1/23/2008	14:58:47	4.9	416	8.47	9.92	91.0
1/23/2008	15:13:47	5.0	416	8.46	9.90	91.2
1/23/2008	15:28:47	5.1	416	8.46	9.89	91.5
1/23/2008	15:43:47	5.2	416	8.46	9.87	91.5
1/23/2008	15:58:47	5.3	416	8.46	9.87	91.7
1/23/2008	16:13:47	5.4	416	8.47	9.85	91.8
1/23/2008	16:28:47	5.5	416	8.46	9.84	91.8
1/23/2008	16:43:47	5.6	416	8.47	9.80	91.7
1/23/2008	16:58:47	5.6	415	8.46	9.78	91.6
1/23/2008	17:13:47	5.7	414	8.46	9.76	91.5
1/23/2008	17:28:47	5.7	415	8.47	9.74	91.3
1/23/2008	17:43:47	5.7	415	8.46	9.70	91.0
1/23/2008	17:58:47	5.7	414	8.46	9.71	91.2
1/23/2008	18:13:47	5.7	414	8.46	9.68	90.8
1/23/2008	18:28:47	5.7	414	8.46	9.64	90.5
1/23/2008	18:43:47	5.7	414	8.46	9.64	90.5
1/23/2008	18:58:47	5.7	414	8.46	9.60	90.0
1/23/2008	19:13:47	5.7	413	8.46	9.60	90.1
1/23/2008	19:28:47	5.7	413	8.46	9.58	89.8
1/23/2008	19:43:47	5.6	412	8.46	9.53	89.2
1/23/2008	19:58:47	5.6	412	8.46	9.51	89.0
1/23/2008	20:13:47	5.6	411	8.45	9.44	88.4
1/23/2008	20:28:47	5.6	411	8.45	9.50	88.9
1/23/2008	20:43:47	5.6	411	8.45	9.47	88.5
1/23/2008	20:58:47	5.6	410	8.45	9.39	87.8
1/23/2008	21:13:47	5.5	407	8.44	9.38	87.6
1/23/2008	21:28:47	5.5	409	8.45	9.43	88.0
1/23/2008	21:43:47	5.5	411	8.44	9.40	87.7
1/23/2008	21:58:47	5.4	408	8.45	9.38	87.4
1/23/2008	22:13:47	5.4	410	8.45	9.38	87.3
1/23/2008	22:28:47	5.4	407	8.45	9.34	86.9
1/23/2008	22:43:47	5.3	406	8.44	9.40	87.3
1/23/2008	22:58:47	5.3	405	8.44	9.40	87.3
1/23/2008	23:13:47	5.3	404	8.44	9.35	86.7
1/23/2008	23:28:47	5.2	406	8.44	9.33	86.6
1/23/2008	23:43:47	5.2	404	8.44	9.38	86.9

Table 5.60. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2008	23:58:47	5.2	403	8.45	9.37	86.8
1/23/2008	0:13:47	5.1	404	8.44	9.36	86.6
1/23/2008	0:28:47	5.1	403	8.44	9.35	86.4
1/23/2008	0:43:47	5.1	403	8.44	9.36	86.4
1/23/2008	0:58:47	5.0	403	8.44	9.40	86.7
1/24/2008	1:13:47	5.0	404	8.45	9.39	86.5
1/24/2008	1:28:47	4.9	401	8.44	9.40	86.5
1/24/2008	1:43:47	4.9	401	8.44	9.40	86.4
1/24/2008	1:58:47	4.9	402	8.44	9.39	86.2
1/24/2008	2:13:47	4.8	402	8.44	9.41	86.2
1/24/2008	2:28:47	4.7	403	8.44	9.36	85.7
1/24/2008	2:43:47	4.7	400	8.44	9.41	86.0
1/24/2008	2:58:47	4.6	401	8.44	9.37	85.5
1/24/2008	3:13:47	4.6	401	8.45	9.44	86.0
1/24/2008	3:28:47	4.5	400	8.45	9.42	85.8
1/24/2008	3:43:47	4.5	401	8.44	9.47	86.1
1/24/2008	3:58:47	4.4	400	8.44	9.41	85.5
1/24/2008	4:13:47	4.4	401	8.44	9.37	84.9
1/24/2008	4:28:47	4.3	401	8.44	9.38	84.9
1/24/2008	4:43:47	4.3	401	8.43	9.47	85.7
1/24/2008	4:58:47	4.3	403	8.44	9.53	86.1
1/24/2008	5:13:47	4.2	404	8.44	9.50	85.8
1/24/2008	5:28:47	4.2	401	8.44	9.46	85.4
1/24/2008	5:43:47	4.2	404	8.44	9.49	85.5
1/24/2008	5:58:47	4.1	406	8.43	9.52	85.7
1/24/2008	6:13:47	4.1	408	8.44	9.43	84.9
1/24/2008	6:28:47	4.1	408	8.44	9.51	85.5
1/24/2008	6:43:47	4.0	410	8.44	9.55	85.8
1/24/2008	6:58:47	4.0	411	8.43	9.55	85.7
1/24/2008	7:13:47	4.0	413	8.43	9.49	85.2
1/24/2008	7:28:47	3.9	413	8.43	9.51	85.2
1/24/2008	7:43:47	3.9	413	8.43	9.48	84.9
1/24/2008	7:58:47	3.9	414	8.43	9.58	85.7
1/24/2008	8:13:47	3.8	417	8.43	9.60	85.8
1/24/2008	8:28:47	3.8	418	8.43	9.58	85.6
1/24/2008	8:43:47	3.8	417	8.43	9.60	85.7
1/24/2008	8:58:47	3.8	419	8.43	9.58	85.5
1/24/2008	9:13:47	3.8	417	8.43	9.59	85.6
1/24/2008	9:28:47	3.8	418	8.43	9.59	85.6
1/24/2008	9:43:47	3.8	420	8.43	9.57	85.5
1/24/2008	9:58:47	3.8	421	8.43	9.56	85.4
1/24/2008	10:13:47	3.9	420	8.43	9.60	85.8
1/24/2008	10:28:47	3.9	422	8.43	9.59	85.8
1/24/2008	10:43:47	3.9	419	8.43	9.66	86.5
1/24/2008	10:58:47	3.9	419	8.44	9.63	86.3
1/24/2008	11:13:47	3.9	419	8.44	9.65	86.5

Table 5.60. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	11:28:47	4.0	419	8.43	9.67	86.7
1/24/2008	11:43:47	4.0	420	8.44	9.62	86.3
1/24/2008	11:58:47	4.0	420	8.44	9.62	86.5
1/24/2008	12:13:47	4.1	419	8.44	9.62	86.6
1/24/2008	12:28:47	4.2	419	8.44	9.60	86.6
1/24/2008	12:43:47	4.3	419	8.44	9.63	87.1
1/24/2008	12:58:47	4.3	419	8.44	9.67	87.5
1/24/2008	13:13:47	4.4	417	8.44	9.56	86.7
1/24/2008	13:28:47	4.4	418	8.44	9.65	87.7
1/24/2008	13:43:47	4.4	419	8.44	9.69	88.0
1/24/2008	13:58:47	4.5	419	8.44	9.66	87.9
1/24/2008	14:13:47	4.7	417	8.44	9.63	88.3
1/24/2008	14:28:47	4.9	418	8.44	9.65	88.7
1/24/2008	14:43:47	5.0	417	8.44	9.49	87.4
1/24/2008	14:58:47	5.0	420	8.44	9.60	88.5
1/24/2008	15:13:47	5.0	420	8.44	9.61	88.6
1/24/2008	15:28:47	5.0	421	8.44	9.65	88.9
1/24/2008	15:43:47	5.0	421	8.44	9.64	88.7
1/24/2008	15:58:47	5.0	422	8.45	9.62	88.7
1/24/2008	16:13:47	5.1	422	8.45	9.62	88.9
1/24/2008	16:28:47	5.2	424	8.45	9.61	89.0
1/24/2008	16:43:47	5.2	423	8.45	9.65	89.4
1/24/2008	16:58:47	5.3	424	8.45	9.55	88.7
1/24/2008	17:13:47	5.4	423	8.45	9.50	88.4
1/24/2008	17:28:47	5.4	423	8.45	9.49	88.4
1/24/2008	17:43:47	5.4	423	8.45	9.46	88.2
1/24/2008	17:58:47	5.4	422	8.45	9.51	88.6
1/24/2008	18:13:47	5.3	423	8.45	9.53	88.6
1/24/2008	18:28:47	5.3	422	8.44	9.53	88.4
1/24/2008	18:43:47	5.2	421	8.45	9.51	88.0
1/24/2008	18:58:47	5.1	421	8.44	9.47	87.6
1/24/2008	19:13:47	5.1	421	8.44	9.51	87.8
1/24/2008	19:28:47	5.1	419	8.44	9.54	88.1
1/24/2008	19:43:47	5.1	420	8.44	9.51	87.8
1/24/2008	19:58:47	5.0	419	8.44	9.54	88.0
1/24/2008	20:13:47	5.0	418	8.44	9.53	87.9
1/24/2008	20:28:47	5.0	418	8.44	9.47	87.4
1/24/2008	20:43:47	5.0	417	8.44	9.51	87.7
1/24/2008	20:58:47	5.0	417	8.44	9.53	87.9
1/24/2008	21:13:47	5.0	415	8.43	9.54	87.9
1/24/2008	21:28:47	5.0	414	8.44	9.45	87.0
1/24/2008	21:43:47	4.9	414	8.44	9.43	86.8
1/24/2008	21:58:47	4.9	412	8.44	9.42	86.6
1/24/2008	22:13:47	4.9	411	8.43	9.36	86.0
1/24/2008	22:28:47	4.9	410	8.43	9.42	86.5
1/24/2008	22:43:47	4.8	408	8.43	9.46	86.8

Table 5.60. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	22:58:47	4.8	408	8.43	9.45	86.6
1/24/2008	23:13:47	4.8	406	8.43	9.40	86.1
1/24/2008	23:28:47	4.7	405	8.43	9.32	85.2
1/24/2008	23:43:47	4.7	404	8.43	9.46	86.5
1/24/2008	23:58:47	4.6	405	8.42	9.45	86.3
1/24/2008	0:13:47	4.6	403	8.43	9.47	86.4
1/24/2008	0:28:47	4.6	404	8.43	9.51	86.7
1/24/2008	0:43:47	4.5	401	8.43	9.49	86.4
1/24/2008	0:58:47	4.5	399	8.42	9.38	85.3
1/25/2008	1:13:47	4.5	398	8.43	9.36	85.0
1/25/2008	1:28:47	4.4	397	8.43	9.33	84.7
1/25/2008	1:43:47	4.4	396	8.42	9.39	85.2
1/25/2008	1:58:47	4.4	401	8.42	9.32	84.5
1/25/2008	2:13:47	4.3	396	8.42	9.42	85.3
1/25/2008	2:28:47	4.3	393	8.42	9.40	85.1
1/25/2008	2:43:47	4.3	395	8.42	9.33	84.3
1/25/2008	2:58:47	4.2	395	8.42	9.34	84.4
1/25/2008	3:13:47	4.2	393	8.42	9.36	84.4
1/25/2008	3:28:47	4.2	393	8.42	9.27	83.6
1/25/2008	3:43:47	4.1	391	8.42	9.39	84.6
1/25/2008	3:58:47	4.1	389	8.42	9.32	83.8
1/25/2008	4:13:47	4.0	393	8.41	9.36	84.1
1/25/2008	4:28:47	4.0	392	8.41	9.35	83.9
1/25/2008	4:43:47	4.0	394	8.41	9.27	83.2
1/25/2008	4:58:47	3.9	394	8.41	9.41	84.4
1/25/2008	5:13:47	3.9	396	8.41	9.51	85.2
1/25/2008	5:28:47	3.9	395	8.42	9.41	84.2
1/25/2008	5:43:47	3.8	397	8.42	9.48	84.7
1/25/2008	5:58:47	3.8	397	8.42	9.47	84.5
1/25/2008	6:13:47	3.7	399	8.41	9.47	84.4
1/25/2008	6:28:47	3.7	398	8.41	9.42	83.9
1/25/2008	6:43:47	3.6	398	8.40	9.44	84.0
1/25/2008	6:58:47	3.6	399	8.41	9.48	84.2
1/25/2008	7:13:47	3.5	399	8.41	9.54	84.6
1/25/2008	7:28:47	3.5	399	8.41	9.57	84.8
1/25/2008	7:43:47	3.5	400	8.41	9.62	85.1
1/25/2008	7:58:47	3.4	399	8.41	9.59	84.7
1/25/2008	8:13:47	3.4	400	8.41	9.59	84.7
1/25/2008	8:28:47	3.3	400	8.41	9.54	84.1
1/25/2008	8:43:47	3.3	401	8.41	9.58	84.4
1/25/2008	8:58:47	3.3	401	8.41	9.64	84.9
1/25/2008	9:13:47	3.2	402	8.41	9.67	85.0
1/25/2008	9:28:47	3.2	402	8.41	9.69	85.3
1/25/2008	9:43:47	3.2	403	8.41	9.67	85.0
1/25/2008	9:58:47	3.2	404	8.41	9.69	85.3
1/25/2008	10:13:47	3.3	404	8.41	9.74	85.8

Table 5.60. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	10:28:47	3.3	406	8.41	9.70	85.6
1/25/2008	10:43:47	3.4	406	8.41	9.70	85.7
1/25/2008	10:58:47	3.5	406	8.41	9.71	85.9
1/25/2008	11:13:47	3.6	408	8.41	9.77	86.7
1/25/2008	11:28:47	3.7	408	8.42	9.71	86.4
1/25/2008	11:43:47	3.8	409	8.41	9.77	87.2
1/25/2008	11:58:47	3.9	410	8.41	9.75	87.3
1/25/2008	12:13:47	4.0	411	8.42	9.75	87.7
1/25/2008	12:28:47	4.2	411	8.42	9.74	87.9
1/25/2008	12:43:47	4.3	412	8.42	9.73	88.1
1/25/2008	12:58:47	4.5	411	8.42	9.76	88.8
1/25/2008	13:13:47	4.6	411	8.42	9.77	89.2
1/25/2008	13:28:47	4.8	412	8.42	9.71	89.0
1/25/2008	13:43:47	4.9	412	8.42	9.73	89.6
1/25/2008	13:58:47	5.1	411	8.42	9.67	89.3
1/25/2008	14:13:47	5.3	411	8.42	9.69	89.9
1/25/2008	14:28:47	5.3	411	8.42	9.67	89.8
1/25/2008	14:43:47	5.5	411	8.41	9.65	90.2
1/25/2008	14:58:47	5.7	409	8.42	9.68	90.8
1/25/2008	15:13:47	5.8	408	8.42	9.68	91.1
1/25/2008	15:28:47	5.9	408	8.42	9.66	91.1
1/25/2008	15:43:47	5.9	407	8.42	9.63	90.9
1/25/2008	15:58:47	6.0	407	8.42	9.57	90.4
1/25/2008	16:13:47	6.1	407	8.42	9.56	90.5
1/25/2008	16:28:47	6.2	405	8.42	9.58	91.1
1/25/2008	16:43:47	6.4	404	8.43	9.58	91.4
1/25/2008	16:58:47	6.4	404	8.43	9.54	91.1
1/25/2008	17:13:47	6.4	403	8.43	9.48	90.5
1/25/2008	17:28:47	6.4	402	8.42	9.48	90.4
1/25/2008	17:43:47	6.4	400	8.42	9.47	90.4
1/25/2008	17:58:47	6.4	401	8.42	9.45	90.3
1/25/2008	18:13:47	6.4	400	8.42	9.44	90.2
1/25/2008	18:28:47	6.4	398	8.41	9.39	89.7
1/25/2008	18:43:47	6.4	399	8.41	9.49	90.7
1/25/2008	18:58:47	6.4	399	8.41	9.39	89.8
1/25/2008	19:13:47	6.5	398	8.41	9.38	89.7
1/25/2008	19:28:47	6.5	397	8.41	9.36	89.5
1/25/2008	19:43:47	6.4	397	8.41	9.28	88.7
1/25/2008	19:58:47	6.4	396	8.41	9.28	88.7
1/25/2008	20:13:47	6.4	395	8.41	9.38	89.5
1/25/2008	20:28:47	6.4	395	8.40	9.38	89.4
1/25/2008	20:43:47	6.3	394	8.40	9.35	89.1
1/25/2008	20:58:47	6.4	394	8.40	9.32	88.9
1/25/2008	21:13:47	6.3	393	8.40	9.31	88.8
1/25/2008	21:28:47	6.3	393	8.40	9.22	87.9
1/25/2008	21:43:47	6.3	390	8.40	9.24	88.0

Table 5.60. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	21:58:47	6.3	391	8.39	9.06	86.3
1/25/2008	22:13:47	6.2	390	8.40	9.23	87.8
1/25/2008	22:28:47	6.2	389	8.40	9.22	87.6
1/25/2008	22:43:47	6.1	388	8.39	9.20	87.2
1/25/2008	22:58:47	6.1	387	8.39	9.13	86.5
1/25/2008	23:13:47	6.0	387	8.39	9.22	87.4
1/25/2008	23:28:47	6.0	386	8.39	9.24	87.2
1/25/2008	23:43:47	5.9	385	8.39	9.21	86.9
1/25/2008	23:58:47	5.8	388	8.39	9.21	86.7
1/25/2008	0:13:47	5.8	384	8.39	9.19	86.4
1/25/2008	0:28:47	5.7	383	8.39	9.17	86.0
1/25/2008	0:43:47	5.6	383	8.39	9.27	86.7
1/25/2008	0:58:47	5.5	382	8.39	9.25	86.3
1/26/2008	1:13:47	5.4	383	8.39	9.24	85.9
1/26/2008	1:28:47	5.2	382	8.39	9.15	84.8
1/26/2008	1:43:47	5.1	381	8.39	9.20	85.2
1/26/2008	1:58:47	5.1	381	8.40	9.16	84.5
1/26/2008	2:13:47	5.0	380	8.39	9.18	84.6
1/26/2008	2:28:47	4.9	381	8.39	9.19	84.5
1/26/2008	2:43:47	4.8	380	8.39	9.23	84.7
1/26/2008	2:58:47	4.8	380	8.40	9.14	83.7
1/26/2008	3:13:47	4.7	380	8.40	9.19	84.0
1/26/2008	3:28:47	4.6	380	8.40	9.18	83.8
1/26/2008	3:43:47	4.5	382	8.40	9.16	83.4
1/26/2008	3:58:47	4.5	380	8.40	9.14	83.2
1/26/2008	4:13:47	4.4	379	8.40	9.16	83.1
1/26/2008	4:28:47	4.3	381	8.40	9.11	82.5
1/26/2008	4:43:47	4.3	382	8.40	9.20	83.2
1/26/2008	4:58:47	4.2	382	8.40	9.21	83.0
1/26/2008	5:13:47	4.1	383	8.39	9.21	82.9
1/26/2008	5:28:47	4.0	384	8.39	9.24	83.0
1/26/2008	5:43:47	4.0	386	8.39	9.27	83.2
1/26/2008	5:58:47	3.9	386	8.40	9.27	83.0
1/26/2008	6:13:47	3.8	387	8.40	9.29	83.0
1/26/2008	6:28:47	3.8	386	8.40	9.36	83.5
1/26/2008	6:43:47	3.7	389	8.40	9.32	83.0
1/26/2008	6:58:47	3.6	390	8.40	9.44	83.9
1/26/2008	7:13:47	3.6	391	8.40	9.40	83.4
1/26/2008	7:28:47	3.5	392	8.39	9.55	84.6
1/26/2008	7:43:47	3.4	391	8.39	8.99	79.4
1/26/2008	7:58:47	3.4	394	8.39	9.27	81.8
1/26/2008	8:13:47	3.3	396	8.40	9.51	83.8
1/26/2008	8:28:47	3.2	397	8.40	9.46	83.2
1/26/2008	8:43:47	3.2	398	8.40	9.39	82.6
1/26/2008	8:58:47	3.2	400	8.40	9.35	82.1
1/26/2008	9:13:47	3.1	401	8.40	9.60	84.2

Table 5.60. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2008	9:28:47	3.2	402	8.40	9.61	84.3
1/26/2008	9:43:47	3.2	403	8.40	9.49	83.3
1/26/2008	9:58:47	3.2	404	8.40	9.67	85.0

Table 5.62. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**SITE6 1-22-08**
Setup	**Date**	**(MMDDYY)**	**:**	**1/22/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**95915**
Starting	**Date**	**(MMDDYY)**	**:**	**1/22/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**95915**
Stopping	**Date**	**(MMDDYY)**	**:**	**1/31/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**300**
Circulator	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
1/22/2008	12:29:15	3.1	478	8.43	11.23	97.5
1/22/2008	12:44:15	3.4	475	8.49	11.10	97.1
1/22/2008	12:59:15	3.4	147	8.51	7.47	65.2
1/22/2008	13:14:15	3.4	145	8.45	5.77	50.4
1/22/2008	13:29:15	3.4	143	8.43	5.52	48.2
1/22/2008	13:44:15	3.5	142	8.43	5.25	45.9
1/22/2008	13:59:15	3.6	141	8.36	5.38	47.2
1/22/2008	14:14:15	3.6	140	8.31	5.23	46.0
1/22/2008	14:29:15	3.7	140	8.23	5.44	48.0
1/22/2008	14:44:15	3.9	140	8.21	5.46	48.3
1/22/2008	14:59:15	4.0	139	8.21	5.29	47.0
1/22/2008	15:14:15	4.2	139	8.21	5.31	47.3
1/22/2008	15:29:15	4.3	139	8.22	5.22	46.7
1/22/2008	15:44:15	4.4	139	8.22	5.14	46.1
1/22/2008	15:59:15	4.5	139	8.22	5.11	46.0
1/22/2008	16:14:15	4.6	138	8.21	5.01	45.2
1/22/2008	16:29:15	4.7	138	8.22	4.86	43.9
1/22/2008	16:44:15	4.8	138	8.24	4.72	42.8
1/22/2008	16:59:15	4.9	138	8.25	4.76	43.2
1/22/2008	17:14:15	5.0	137	8.26	4.85	44.1
1/22/2008	17:29:15	5.0	137	8.27	4.89	44.6
1/22/2008	17:44:15	5.0	137	8.23	4.98	45.4
1/22/2008	17:59:15	5.0	136	8.22	4.72	43.0
1/22/2008	18:14:15	5.0	136	8.19	4.54	41.3
1/22/2008	18:29:15	5.0	136	8.15	4.83	43.9
1/22/2008	18:44:15	4.9	135	8.13	4.85	44.0
1/22/2008	18:59:15	4.9	135	8.15	4.88	44.3
1/22/2008	19:14:15	4.8	135	8.19	4.74	43.0
1/22/2008	19:29:15	4.8	135	8.24	4.54	41.1
1/22/2008	19:44:15	4.7	135	8.28	4.46	40.3
1/22/2008	19:59:15	4.6	134	8.30	4.61	41.6
1/22/2008	20:14:15	4.6	134	8.32	4.47	40.2

Table 5.62. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/22/2008	20:29:15	4.5	134	8.33	4.54	40.8
1/22/2008	20:44:15	4.4	134	8.29	4.67	41.9
1/22/2008	20:59:15	4.3	133	8.25	4.90	43.8
1/22/2008	21:14:15	4.2	133	8.21	5.04	45.0
1/22/2008	21:29:15	4.2	133	8.21	4.83	43.1
1/22/2008	21:44:15	4.1	133	8.23	4.77	42.4
1/22/2008	21:59:15	4.0	133	8.25	4.78	42.4
1/22/2008	22:14:15	3.9	132	8.29	4.86	43.0
1/22/2008	22:29:15	3.8	132	8.31	5.01	44.2
1/22/2008	22:44:15	3.7	132	8.33	4.91	43.2
1/22/2008	22:59:15	3.7	132	8.32	5.04	44.3
1/22/2008	23:14:15	3.6	132	8.32	5.08	44.6
1/22/2008	23:29:15	3.5	132	8.31	5.06	44.3
1/22/2008	23:44:15	3.5	132	8.32	5.00	43.7
1/22/2008	23:59:15	3.4	132	8.33	5.02	43.9
1/23/2008	0:14:15	3.4	132	8.34	5.10	44.5
1/23/2008	0:29:15	3.3	131	8.36	5.07	44.2
1/23/2008	0:44:15	3.3	131	8.38	4.97	43.2
1/23/2008	0:59:15	3.2	131	8.37	5.10	44.3
1/23/2008	1:14:15	3.2	131	8.36	4.98	43.2
1/23/2008	1:29:15	3.1	131	8.35	5.01	43.4
1/23/2008	1:44:15	3.0	130	8.36	4.88	42.2
1/23/2008	1:59:15	3.0	130	8.37	4.81	41.5
1/23/2008	2:14:15	2.9	130	8.38	4.60	39.6
1/23/2008	2:29:15	2.8	130	8.38	4.58	39.4
1/23/2008	2:44:15	2.7	130	8.38	4.55	39.0
1/23/2008	2:59:15	2.7	129	8.38	4.51	38.6
1/23/2008	3:14:15	2.6	129	8.39	4.37	37.3
1/23/2008	3:29:15	2.5	129	8.41	4.31	36.8
1/23/2008	3:44:15	2.4	128	8.42	4.28	36.4
1/23/2008	3:59:15	2.3	128	8.42	4.17	35.4
1/23/2008	4:14:15	2.2	128	8.42	6.58	55.7
1/23/2008	4:29:15	2.1	127	8.44	8.46	71.4
1/23/2008	4:44:15	2.1	127	8.45	5.96	50.2
1/23/2008	4:59:15	2.0	127	8.45	6.83	57.4
1/23/2008	5:14:15	1.9	127	8.46	8.12	68.1
1/23/2008	5:29:15	1.8	127	8.45	5.66	47.4
1/23/2008	5:44:15	1.8	127	8.44	5.04	42.1
1/23/2008	5:59:15	1.7	127	8.42	4.80	40.0
1/23/2008	6:14:15	1.6	127	8.42	7.10	59.1
1/23/2008	6:29:15	1.5	127	8.43	5.65	46.8
1/23/2008	6:44:15	1.4	127	8.43	6.86	56.8
1/23/2008	6:59:15	1.3	127	8.43	7.25	59.8
1/23/2008	7:14:15	1.3	127	8.43	5.62	46.3
1/23/2008	7:29:15	1.2	127	8.43	4.99	41.1
1/23/2008	7:44:15	1.2	127	8.42	4.72	38.8

Table 5.62. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2008	7:59:15	1.1	127	8.41	4.63	38.0
1/23/2008	8:14:15	1.1	126	8.41	4.51	36.9
1/23/2008	8:29:15	1.0	127	8.40	4.39	35.9
1/23/2008	8:44:15	1.0	127	8.41	4.40	35.9
1/23/2008	8:59:15	1.0	127	8.41	4.31	35.2
1/23/2008	9:14:15	0.9	127	8.40	4.40	35.9
1/23/2008	9:29:15	0.9	127	8.37	4.51	36.8
1/23/2008	9:44:15	0.9	128	8.35	7.78	63.5
1/23/2008	9:59:15	1.0	128	8.32	8.23	67.3
1/23/2008	10:14:15	1.0	128	8.30	8.74	71.4
1/23/2008	10:29:15	1.1	129	8.27	9.11	74.7
1/23/2008	10:44:15	1.2	130	8.27	8.64	71.0
1/23/2008	10:59:15	1.3	130	8.25	5.91	48.7
1/23/2008	11:14:15	1.5	130	8.24	5.40	44.8
1/23/2008	11:29:15	1.7	131	8.23	7.59	63.3
1/23/2008	11:44:15	2.0	131	8.47	11.38	95.6
1/23/2008	11:59:15	2.6	494	8.50	11.23	96.2
1/23/2008	12:14:15	2.9	496	8.50	11.16	96.3
1/23/2008	12:29:15	3.2	495	8.50	11.11	96.7
1/23/2008	12:44:15	3.5	497	8.50	11.13	97.5
1/23/2008	12:59:15	3.7	498	8.51	11.08	97.8
1/23/2008	13:14:15	4.0	497	8.50	10.97	97.4
1/23/2008	13:29:15	4.2	499	8.46	10.95	97.9
1/23/2008	13:44:15	4.5	499	8.45	10.87	97.8
1/23/2008	13:59:15	4.7	499	8.45	10.81	97.9
1/23/2008	14:14:15	4.9	499	8.45	10.73	97.6
1/23/2008	14:29:15	5.1	499	8.48	10.72	98.0
1/23/2008	14:44:15	5.3	500	8.47	10.66	98.0
1/23/2008	14:59:15	5.4	501	8.44	10.65	98.2
1/23/2008	15:14:15	5.5	500	8.44	10.61	98.0
1/23/2008	15:29:15	5.6	502	8.44	10.50	97.3
1/23/2008	15:44:15	5.7	499	8.46	10.43	96.9
1/23/2008	15:59:15	5.8	499	8.50	10.42	97.1
1/23/2008	16:14:15	5.9	500	8.47	10.35	96.5
1/23/2008	16:29:15	5.8	500	8.46	10.37	96.6
1/23/2008	16:44:15	5.7	500	8.47	10.39	96.6
1/23/2008	16:59:15	5.7	498	8.46	10.36	96.1
1/23/2008	17:14:15	5.6	498	8.44	10.39	96.3
1/23/2008	17:29:15	5.6	498	8.44	10.24	94.8
1/23/2008	17:44:15	5.5	499	8.44	10.27	95.0
1/23/2008	17:59:15	5.5	499	8.42	10.22	94.5
1/23/2008	18:14:15	5.5	496	8.46	10.18	94.1
1/23/2008	18:29:15	5.5	497	8.45	10.08	93.1
1/23/2008	18:44:15	5.4	496	8.45	10.16	93.7
1/23/2008	18:59:15	5.4	495	8.46	10.13	93.2
1/23/2008	19:14:15	5.3	496	8.45	10.13	93.0

Table 5.62. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2008	19:29:15	5.1	494	8.44	10.18	93.2
1/23/2008	19:44:15	5.0	494	8.46	10.17	92.8
1/23/2008	19:59:15	4.9	493	8.46	10.19	92.6
1/23/2008	20:14:15	4.8	492	8.45	10.22	92.7
1/23/2008	20:29:15	4.7	491	8.46	10.17	92.0
1/23/2008	20:44:15	4.6	491	8.45	10.26	92.7
1/23/2008	20:59:15	4.6	491	8.48	10.29	92.8
1/23/2008	21:14:15	4.5	490	8.48	10.34	93.2
1/23/2008	21:29:15	4.5	490	8.50	10.29	92.7
1/23/2008	21:44:15	4.5	489	8.49	10.35	93.0
1/23/2008	21:59:15	4.4	488	8.49	10.27	92.2
1/23/2008	22:14:15	4.4	487	8.49	10.37	93.0
1/23/2008	22:29:15	4.3	487	8.47	10.28	92.1
1/23/2008	22:44:15	4.2	486	8.49	10.38	92.8
1/23/2008	22:59:15	4.2	486	8.49	10.35	92.3
1/23/2008	23:14:15	4.1	484	8.48	10.36	92.2
1/23/2008	23:29:15	4.0	484	8.49	10.31	91.6
1/23/2008	23:44:15	4.0	484	8.47	10.31	91.5
1/23/2008	23:59:15	3.9	483	8.48	10.37	91.9
1/24/2008	0:14:15	3.9	483	8.47	10.34	91.6
1/24/2008	0:29:15	3.9	482	8.48	10.38	91.9
1/24/2008	0:44:15	3.8	482	8.47	10.41	92.1
1/24/2008	0:59:15	3.8	481	8.47	10.35	91.4
1/24/2008	1:14:15	3.7	480	8.47	10.34	91.2
1/24/2008	1:29:15	3.7	480	8.47	10.41	91.7
1/24/2008	1:44:15	3.7	480	8.47	10.47	92.2
1/24/2008	1:59:15	3.6	479	8.48	10.43	91.7
1/24/2008	2:14:15	3.6	478	8.48	10.42	91.5
1/24/2008	2:29:15	3.5	478	8.48	10.44	91.6
1/24/2008	2:44:15	3.4	478	8.48	10.44	91.4
1/24/2008	2:59:15	3.4	478	8.50	10.44	91.2
1/24/2008	3:14:15	3.3	478	8.50	10.45	91.2
1/24/2008	3:29:15	3.3	478	8.49	10.50	91.5
1/24/2008	3:44:15	3.2	478	8.49	10.50	91.4
1/24/2008	3:59:15	3.2	478	8.50	10.52	91.4
1/24/2008	4:14:15	3.2	478	8.50	10.48	91.0
1/24/2008	4:29:15	3.1	478	8.49	10.54	91.5
1/24/2008	4:44:15	3.1	479	8.50	10.59	91.9
1/24/2008	4:59:15	3.1	479	8.48	10.54	91.4
1/24/2008	5:14:15	3.1	480	8.48	10.60	91.9
1/24/2008	5:29:15	3.1	479	8.49	10.62	92.0
1/24/2008	5:44:15	3.0	480	8.49	10.64	92.1
1/24/2008	5:59:15	3.0	480	8.48	10.66	92.2
1/24/2008	6:14:15	3.0	480	8.47	10.63	91.8
1/24/2008	6:29:15	2.9	482	8.49	10.67	92.1
1/24/2008	6:44:15	2.9	481	8.48	10.66	91.9

Table 5.62. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	6:59:15	2.8	482	8.47	10.70	92.1
1/24/2008	7:14:15	2.8	483	8.47	10.75	92.4
1/24/2008	7:29:15	2.7	483	8.47	10.70	91.9
1/24/2008	7:44:15	2.7	484	8.48	10.79	92.6
1/24/2008	7:59:15	2.7	484	8.48	10.77	92.4
1/24/2008	8:14:15	2.7	484	8.48	10.82	92.8
1/24/2008	8:29:15	2.7	485	8.48	10.77	92.3
1/24/2008	8:44:15	2.7	485	8.48	10.80	92.6
1/24/2008	8:59:15	2.7	485	8.48	10.75	92.2
1/24/2008	9:14:15	2.7	486	8.48	10.84	93.0
1/24/2008	9:29:15	2.7	486	8.49	10.77	92.5
1/24/2008	9:44:15	2.8	486	8.48	10.80	92.9
1/24/2008	9:59:15	2.8	488	8.48	10.83	93.2
1/24/2008	10:14:15	2.9	487	8.48	10.77	92.9
1/24/2008	10:29:15	2.9	487	8.48	10.82	93.4
1/24/2008	10:44:15	3.0	488	8.47	10.81	93.6
1/24/2008	10:59:15	3.1	488	8.47	10.74	93.1
1/24/2008	11:14:15	3.1	488	8.47	10.78	93.7
1/24/2008	11:29:15	3.2	486	8.48	10.78	93.7
1/24/2008	11:44:15	3.3	487	8.48	10.75	93.7
1/24/2008	11:59:15	3.4	487	8.48	10.75	94.0
1/24/2008	12:14:15	3.5	487	8.48	10.67	93.5
1/24/2008	12:29:15	3.5	487	8.48	10.74	94.3
1/24/2008	12:44:15	3.6	487	8.48	10.73	94.3
1/24/2008	12:59:15	3.7	488	8.49	10.70	94.3
1/24/2008	13:14:15	3.8	488	8.47	10.67	94.3
1/24/2008	13:29:15	3.9	488	8.49	10.62	94.1
1/24/2008	13:44:15	4.0	488	8.49	10.64	94.6
1/24/2008	13:59:15	4.1	487	8.49	10.61	94.6
1/24/2008	14:14:15	4.2	488	8.48	10.56	94.4
1/24/2008	14:29:15	4.4	486	8.48	10.52	94.3
1/24/2008	14:44:15	4.5	486	8.48	10.52	94.7
1/24/2008	14:59:15	4.6	488	8.50	10.46	94.4
1/24/2008	15:14:15	4.6	488	8.48	10.42	94.1
1/24/2008	15:29:15	4.7	487	8.49	10.42	94.3
1/24/2008	15:44:15	4.8	486	8.48	10.42	94.5
1/24/2008	15:59:15	4.8	489	8.48	10.37	94.1
1/24/2008	16:14:15	4.9	487	8.47	10.37	94.2
1/24/2008	16:29:15	4.8	486	8.48	10.33	93.8
1/24/2008	16:44:15	4.8	486	8.48	10.35	93.9
1/24/2008	16:59:15	4.8	485	8.48	10.34	93.7
1/24/2008	17:14:15	4.7	486	8.47	10.33	93.5
1/24/2008	17:29:15	4.7	484	8.49	10.34	93.6
1/24/2008	17:44:15	4.7	485	8.50	10.28	93.0
1/24/2008	17:59:15	4.6	483	8.50	10.29	93.0
1/24/2008	18:14:15	4.6	483	8.55	10.31	93.0

Table 5.62. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	18:29:15	4.6	483	8.56	10.33	93.2
1/24/2008	18:44:15	4.6	483	8.54	10.27	92.6
1/24/2008	18:59:15	4.5	481	8.52	10.32	93.0
1/24/2008	19:14:15	4.5	481	8.51	10.28	92.5
1/24/2008	19:29:15	4.5	481	8.51	10.32	92.8
1/24/2008	19:44:15	4.4	480	8.51	10.32	92.7
1/24/2008	19:59:15	4.4	480	8.51	10.32	92.6
1/24/2008	20:14:15	4.3	477	8.52	10.34	92.7
1/24/2008	20:29:15	4.3	478	8.52	10.31	92.3
1/24/2008	20:44:15	4.2	477	8.52	10.37	92.7
1/24/2008	20:59:15	4.2	476	8.52	10.36	92.5
1/24/2008	21:14:15	4.1	478	8.52	10.37	92.4
1/24/2008	21:29:15	4.1	477	8.52	10.37	92.3
1/24/2008	21:44:15	4.0	475	8.52	10.46	93.0
1/24/2008	21:59:15	4.0	473	8.52	10.44	92.7
1/24/2008	22:14:15	3.9	474	8.52	10.47	92.8
1/24/2008	22:29:15	3.9	476	8.52	10.37	91.9
1/24/2008	22:44:15	3.8	476	8.52	10.39	91.9
1/24/2008	22:59:15	3.8	474	8.51	10.43	92.1
1/24/2008	23:14:15	3.7	473	8.48	10.49	92.5
1/24/2008	23:29:15	3.7	474	8.48	10.40	91.7
1/24/2008	23:44:15	3.6	474	8.48	10.45	92.0
1/24/2008	23:59:15	3.6	474	8.48	10.47	92.1
1/25/2008	0:14:15	3.6	474	8.46	10.49	92.1
1/25/2008	0:29:15	3.5	474	8.49	10.51	92.2
1/25/2008	0:44:15	3.5	474	8.49	10.48	91.9
1/25/2008	0:59:15	3.5	475	8.49	10.48	91.8
1/25/2008	1:14:15	3.4	474	8.49	10.52	92.1
1/25/2008	1:29:15	3.4	474	8.50	10.48	91.7
1/25/2008	1:44:15	3.4	476	8.49	10.42	91.2
1/25/2008	1:59:15	3.4	476	8.49	10.42	91.1
1/25/2008	2:14:15	3.4	476	8.49	10.49	91.7
1/25/2008	2:29:15	3.4	476	8.48	10.46	91.4
1/25/2008	2:44:15	3.4	477	8.48	10.50	91.7
1/25/2008	2:59:15	3.4	478	8.48	10.45	91.3
1/25/2008	3:14:15	3.3	478	8.48	10.45	91.2
1/25/2008	3:29:15	3.3	479	8.47	10.49	91.5
1/25/2008	3:44:15	3.3	480	8.48	10.44	91.0
1/25/2008	3:59:15	3.2	481	8.49	10.51	91.5
1/25/2008	4:14:15	3.2	482	8.49	10.46	91.0
1/25/2008	4:29:15	3.2	482	8.49	10.47	90.9
1/25/2008	4:44:15	3.1	483	8.49	10.48	90.9
1/25/2008	4:59:15	3.1	483	8.49	10.53	91.2
1/25/2008	5:14:15	3.0	485	8.50	10.58	91.5
1/25/2008	5:29:15	3.0	485	8.50	10.48	90.6
1/25/2008	5:44:15	2.9	486	8.50	10.59	91.4

Table 5.62. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	5:59:15	2.8	486	8.50	10.58	91.1
1/25/2008	6:14:15	2.8	487	8.52	10.51	90.3
1/25/2008	6:29:15	2.7	488	8.52	10.53	90.5
1/25/2008	6:44:15	2.7	488	8.52	10.60	90.9
1/25/2008	6:59:15	2.6	488	8.53	10.56	90.4
1/25/2008	7:14:15	2.6	489	8.52	10.62	90.9
1/25/2008	7:29:15	2.6	490	8.52	10.61	90.8
1/25/2008	7:44:15	2.5	490	8.54	10.51	89.8
1/25/2008	7:59:15	2.5	490	8.52	10.61	90.7
1/25/2008	8:14:15	2.6	490	8.51	10.57	90.4
1/25/2008	8:29:15	2.6	490	8.52	10.57	90.4
1/25/2008	8:44:15	2.6	490	8.52	10.64	91.1
1/25/2008	8:59:15	2.7	491	8.52	10.59	90.8
1/25/2008	9:14:15	2.8	491	8.50	10.61	91.2
1/25/2008	9:29:15	2.9	491	8.52	10.62	91.5
1/25/2008	9:44:15	3.0	491	8.50	10.61	91.7
1/25/2008	9:59:15	3.1	491	8.53	10.60	92.0
1/25/2008	10:14:15	3.3	491	8.51	10.66	93.0
1/25/2008	10:29:15	3.5	491	8.51	10.57	92.7
1/25/2008	10:44:15	3.7	492	8.50	10.56	93.2
1/25/2008	10:59:15	4.0	492	8.50	10.59	94.0
1/25/2008	11:14:15	4.2	492	8.50	10.59	94.6
1/25/2008	11:29:15	4.4	492	8.49	10.59	95.2
1/25/2008	11:44:15	4.7	492	8.50	10.55	95.5
1/25/2008	11:59:15	5.0	494	8.48	10.47	95.4
1/25/2008	12:14:15	5.3	494	8.48	10.48	96.1
1/25/2008	12:29:15	5.5	493	8.48	10.39	96.0
1/25/2008	12:44:15	5.8	494	8.47	10.43	97.0
1/25/2008	12:59:15	6.1	494	8.48	10.33	96.9
1/25/2008	13:14:15	6.4	496	8.47	10.29	97.1
1/25/2008	13:29:15	6.7	495	8.47	10.22	97.2
1/25/2008	13:44:15	7.0	496	8.47	10.21	97.9
1/25/2008	13:59:15	7.2	495	8.47	10.19	98.3
1/25/2008	14:14:15	7.3	496	8.46	10.06	97.2
1/25/2008	14:29:15	7.4	496	8.46	10.03	97.0
1/25/2008	14:44:15	7.5	495	8.47	10.04	97.4
1/25/2008	14:59:15	7.5	495	8.46	10.00	97.2
1/25/2008	15:14:15	7.6	494	8.46	9.98	97.2
1/25/2008	15:29:15	7.7	494	8.46	9.91	96.7
1/25/2008	15:44:15	7.8	494	8.46	9.79	95.9
1/25/2008	15:59:15	7.9	494	8.45	9.79	95.9
1/25/2008	16:14:15	7.9	493	8.45	9.71	95.2
1/25/2008	16:29:15	7.8	492	8.45	9.73	95.3
1/25/2008	16:44:15	7.7	491	8.46	9.69	94.7
1/25/2008	16:59:15	7.6	490	8.45	9.72	94.6
1/25/2008	17:14:15	7.4	490	8.46	9.72	94.2

Table 5.62. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	17:29:15	7.2	488	8.47	9.75	94.0
1/25/2008	17:44:15	7.1	488	8.46	9.79	94.1
1/25/2008	17:59:15	6.9	487	8.47	9.74	93.3
1/25/2008	18:14:15	6.8	486	8.47	9.78	93.4
1/25/2008	18:29:15	6.7	485	8.46	9.80	93.3
1/25/2008	18:44:15	6.6	484	8.47	9.75	92.7
1/25/2008	18:59:15	6.6	483	8.46	9.76	92.6
1/25/2008	19:14:15	6.5	482	8.47	9.80	92.8
1/25/2008	19:29:15	6.4	481	8.46	9.71	91.7
1/25/2008	19:44:15	6.2	479	8.46	9.76	91.8
1/25/2008	19:59:15	6.1	479	8.47	9.76	91.5
1/25/2008	20:14:15	6.0	478	8.46	9.87	92.3
1/25/2008	20:29:15	5.9	476	8.47	9.85	91.8
1/25/2008	20:44:15	5.7	475	8.47	9.85	91.5
1/25/2008	20:59:15	5.6	474	8.47	9.88	91.5
1/25/2008	21:14:15	5.5	473	8.48	9.91	91.5
1/25/2008	21:29:15	5.3	472	8.48	9.90	91.0
1/25/2008	21:44:15	5.2	471	8.49	9.96	91.3
1/25/2008	21:59:15	5.1	470	8.48	9.93	90.8
1/25/2008	22:14:15	5.0	469	8.48	10.04	91.5
1/25/2008	22:29:15	4.9	469	8.49	9.94	90.4
1/25/2008	22:44:15	4.8	468	8.49	10.04	91.2
1/25/2008	22:59:15	4.8	467	8.49	10.05	91.1
1/25/2008	23:14:15	4.7	467	8.49	10.02	90.7
1/25/2008	23:29:15	4.6	466	8.49	10.10	91.2
1/25/2008	23:44:15	4.6	465	8.50	10.04	90.5
1/25/2008	23:59:15	4.5	465	8.49	10.14	91.2
1/26/2008	0:14:15	4.4	465	8.46	10.14	91.0
1/26/2008	0:29:15	4.3	465	8.50	10.10	90.5
1/26/2008	0:44:15	4.2	464	8.50	10.12	90.4
1/26/2008	0:59:15	4.1	465	8.49	10.16	90.6
1/26/2008	1:14:15	4.1	465	8.50	10.24	91.1
1/26/2008	1:29:15	4.0	465	8.50	10.18	90.5
1/26/2008	1:44:15	4.0	465	8.50	10.18	90.4
1/26/2008	1:59:15	3.9	465	8.50	10.18	90.2
1/26/2008	2:14:15	3.8	465	8.49	10.20	90.2
1/26/2008	2:29:15	3.8	465	8.50	10.24	90.4
1/26/2008	2:44:15	3.7	465	8.49	10.23	90.1
1/26/2008	2:59:15	3.6	465	8.49	10.30	90.6
1/26/2008	3:14:15	3.6	466	8.49	10.31	90.6
1/26/2008	3:29:15	3.5	466	8.49	10.29	90.1
1/26/2008	3:44:15	3.4	466	8.49	10.39	90.9
1/26/2008	3:59:15	3.3	467	8.50	10.37	90.6
1/26/2008	4:14:15	3.3	467	8.49	10.39	90.5
1/26/2008	4:29:15	3.2	467	8.48	10.44	90.8
1/26/2008	4:44:15	3.1	468	8.49	10.48	90.9

Table 5.62. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2008	4:59:15	3.0	468	8.48	10.45	90.4
1/26/2008	5:14:15	2.9	469	8.47	10.51	90.7
1/26/2008	5:29:15	2.8	469	8.46	10.55	90.9
1/26/2008	5:44:15	2.7	470	8.47	10.60	91.1
1/26/2008	5:59:15	2.7	470	8.49	10.55	90.4
1/26/2008	6:14:15	2.6	470	8.47	10.66	91.2
1/26/2008	6:29:15	2.5	471	8.49	10.67	91.1
1/26/2008	6:44:15	2.4	471	8.49	10.62	90.5
1/26/2008	6:59:15	2.3	472	8.49	10.69	90.9
1/26/2008	7:14:15	2.3	472	8.49	10.72	90.9
1/26/2008	7:29:15	2.2	473	8.49	10.74	90.9
1/26/2008	7:44:15	2.1	474	8.48	10.71	90.5
1/26/2008	7:59:15	2.1	474	8.49	10.78	91.0
1/26/2008	8:14:15	2.1	474	8.49	10.83	91.4
1/26/2008	8:29:15	2.1	474	8.49	10.88	91.8
1/26/2008	8:44:15	2.1	475	8.48	10.84	91.6
1/26/2008	8:59:15	2.2	475	8.49	10.88	92.1

Table 5.61. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45476**	**Name**	**:**	**Apollo**
Log	**File**	**Name**	**:**	**site6-1-22--08**
Setup	**Date**	**(MMDDYY)**	**:**	**1/24/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**9:58:30**
Starting	**Date**	**(MMDDYY)**	**:**	**1/24/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**11:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**1/26/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**13:12:23**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
1/22/2008	12:30:00	3.2	11.83	102.8
1/22/2008	12:45:00	3.1	11.84	102.7
1/22/2008	13:00:00	3.1	11.84	102.5
1/22/2008	13:15:00	3.1	11.85	102.6
1/22/2008	13:30:00	3.2	11.84	102.7
1/22/2008	13:45:00	3.2	11.82	102.6
1/22/2008	14:00:00	3.2	11.79	102.4
1/22/2008	14:15:00	3.3	11.77	102.4
1/22/2008	14:30:00	3.3	11.73	102.3
1/22/2008	14:45:00	3.4	11.73	102.5
1/22/2008	15:00:00	3.5	11.70	102.5
1/22/2008	15:15:00	3.6	11.67	102.5
1/22/2008	15:30:00	3.7	11.63	102.4
1/22/2008	15:45:00	3.8	11.61	102.5
1/22/2008	16:00:00	3.9	11.62	102.9
1/22/2008	16:15:00	4.2	11.51	102.6
1/22/2008	16:30:00	4.3	11.36	101.7
1/22/2008	16:45:00	4.5	11.28	101.5
1/22/2008	17:00:00	4.8	11.24	101.8
1/22/2008	17:15:00	5.0	11.15	101.5
1/22/2008	17:30:00	5.1	11.08	101.2
1/22/2008	17:45:00	5.1	11.06	100.9
1/22/2008	18:00:00	5.0	11.04	100.6
1/22/2008	18:15:00	5.0	11.02	100.3
1/22/2008	18:30:00	5.0	10.98	100.1
1/22/2008	18:45:00	5.0	10.97	99.9
1/22/2008	19:00:00	4.9	10.96	99.6
1/22/2008	19:15:00	4.8	10.95	99.4
1/22/2008	19:30:00	4.7	10.95	99.1
1/22/2008	19:45:00	4.7	10.94	98.8
1/22/2008	20:00:00	4.6	10.93	98.5
1/22/2008	20:15:00	4.5	10.93	98.3
1/22/2008	20:30:00	4.5	10.93	98.2
1/22/2008	20:45:00	4.4	10.93	98.1
1/22/2008	21:00:00	4.4	10.92	97.9

Table 5.61. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/22/2008	21:15:00	4.3	10.92	97.7
1/22/2008	21:30:00	4.2	10.93	97.6
1/22/2008	21:45:00	4.2	10.95	97.6
1/22/2008	22:00:00	4.1	10.96	97.6
1/22/2008	22:15:00	4.0	10.97	97.5
1/22/2008	22:30:00	4.0	10.98	97.4
1/22/2008	22:45:00	3.9	10.99	97.3
1/22/2008	23:00:00	3.9	11.00	97.2
1/22/2008	23:15:00	3.8	11.00	97.2
1/22/2008	23:30:00	3.8	11.00	97.0
1/22/2008	23:45:00	3.7	11.00	96.8
1/23/2008	0:00:00	3.7	11.00	96.7
1/23/2008	0:15:00	3.6	10.99	96.5
1/23/2008	0:30:00	3.5	10.99	96.3
1/23/2008	0:45:00	3.5	10.98	96.1
1/23/2008	1:00:00	3.4	10.98	95.9
1/23/2008	1:15:00	3.4	10.96	95.7
1/23/2008	1:30:00	3.3	10.95	95.4
1/23/2008	1:45:00	3.3	10.95	95.3
1/23/2008	2:00:00	3.2	10.94	95.0
1/23/2008	2:15:00	3.1	10.94	94.8
1/23/2008	2:30:00	3.1	10.94	94.7
1/23/2008	2:45:00	3.0	10.96	94.7
1/23/2008	3:00:00	2.8	11.03	94.8
1/23/2008	3:15:00	2.7	11.08	95.0
1/23/2008	3:30:00	2.7	11.11	95.1
1/23/2008	3:45:00	2.6	11.14	95.2
1/23/2008	4:00:00	2.5	11.16	95.2
1/23/2008	4:15:00	2.5	11.17	95.2
1/23/2008	4:30:00	2.4	11.19	95.2
1/23/2008	4:45:00	2.4	11.20	95.2
1/23/2008	5:00:00	2.3	11.22	95.2
1/23/2008	5:15:00	2.3	11.23	95.1
1/23/2008	5:30:00	2.2	11.24	95.1
1/23/2008	5:45:00	2.1	11.28	95.1
1/23/2008	6:00:00	1.9	11.29	94.6
1/23/2008	6:15:00	1.8	11.31	94.6
1/23/2008	6:30:00	1.7	11.33	94.5
1/23/2008	6:45:00	1.7	11.33	94.5
1/23/2008	7:00:00	1.6	11.33	94.4
1/23/2008	7:15:00	1.6	11.35	94.4
1/23/2008	7:30:00	1.5	11.36	94.3
1/23/2008	7:45:00	1.5	11.37	94.3
1/23/2008	8:00:00	1.5	11.38	94.3
1/23/2008	8:15:00	1.4	11.42	94.4
1/23/2008	8:30:00	0.7	11.49	93.2

Table 5.61. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2008	8:45:00	0.7	11.66	94.5
1/23/2008	9:00:00	0.7	11.75	95.4
1/23/2008	9:15:00	0.8	11.78	95.9
1/23/2008	9:30:00	0.9	11.80	96.2
1/23/2008	9:45:00	0.9	11.82	96.5
1/23/2008	10:00:00	1.0	11.82	96.7
1/23/2008	10:15:00	1.1	11.83	97.1
1/23/2008	10:30:00	1.3	11.83	97.6
1/23/2008	10:45:00	1.5	11.83	98.0
1/23/2008	11:00:00	1.7	11.82	98.5
1/23/2008	11:15:00	1.9	11.80	99.1
1/23/2008	11:30:00	2.2	11.79	99.7
1/23/2008	11:45:00	2.5	11.76	100.3
1/23/2008	12:00:00	2.8	11.74	100.8
1/23/2008	12:15:00	3.1	11.70	101.3
1/23/2008	12:30:00	3.3	11.67	101.7
1/23/2008	12:45:00	3.6	11.62	102.1
1/23/2008	13:00:00	3.9	11.58	102.4
1/23/2008	13:15:00	4.1	11.54	102.6
1/23/2008	13:30:00	4.4	11.49	103.0
1/23/2008	13:45:00	4.6	11.44	103.2
1/23/2008	14:00:00	4.8	11.39	103.3
1/23/2008	14:15:00	5.0	11.33	103.3
1/23/2008	14:30:00	5.2	11.27	103.3
1/23/2008	14:45:00	5.4	11.22	103.3
1/23/2008	15:00:00	5.5	11.17	103.2
1/23/2008	15:15:00	5.6	11.13	103.0
1/23/2008	15:30:00	5.8	11.09	103.0
1/23/2008	15:45:00	5.9	11.04	102.8
1/23/2008	16:00:00	6.0	10.99	102.6
1/23/2008	16:15:00	6.0	10.95	102.3
1/23/2008	16:30:00	5.9	10.92	101.9
1/23/2008	16:45:00	5.9	10.91	101.6
1/23/2008	17:00:00	5.8	10.88	101.1
1/23/2008	17:15:00	5.7	10.85	100.7
1/23/2008	17:30:00	5.7	10.82	100.4
1/23/2008	17:45:00	5.7	10.80	100.1
1/23/2008	18:00:00	5.6	10.78	99.8
1/23/2008	18:15:00	5.6	10.76	99.6
1/23/2008	18:30:00	5.6	10.74	99.3
1/23/2008	18:45:00	5.5	10.73	99.1
1/23/2008	19:00:00	5.5	10.72	98.8
1/23/2008	19:15:00	5.4	10.72	98.6
1/23/2008	19:30:00	5.2	10.73	98.3
1/23/2008	19:45:00	5.1	10.74	98.1
1/23/2008	20:00:00	5.0	10.74	97.9

Table 5.61. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/23/2008	20:15:00	4.9	10.76	97.7
1/23/2008	20:30:00	4.8	10.77	97.5
1/23/2008	20:45:00	4.7	10.77	97.5
1/23/2008	21:00:00	4.7	10.78	97.4
1/23/2008	21:15:00	4.6	10.79	97.3
1/23/2008	21:30:00	4.6	10.79	97.3
1/23/2008	21:45:00	4.6	10.80	97.2
1/23/2008	22:00:00	4.5	10.81	97.2
1/23/2008	22:15:00	4.5	10.81	97.1
1/23/2008	22:30:00	4.4	10.82	97.0
1/23/2008	22:45:00	4.3	10.84	97.0
1/23/2008	23:00:00	4.2	10.85	96.9
1/23/2008	23:15:00	4.2	10.86	96.8
1/23/2008	23:30:00	4.1	10.88	96.8
1/23/2008	23:45:00	4.1	10.89	96.8
1/24/2008	0:00:00	4.0	10.90	96.8
1/24/2008	0:15:00	4.0	10.91	96.8
1/24/2008	0:30:00	4.0	10.92	96.8
1/24/2008	0:45:00	3.9	10.93	96.8
1/24/2008	1:00:00	3.9	10.94	96.7
1/24/2008	1:15:00	3.8	10.95	96.7
1/24/2008	1:30:00	3.8	10.96	96.7
1/24/2008	1:45:00	3.8	10.98	96.8
1/24/2008	2:00:00	3.7	11.00	96.9
1/24/2008	2:15:00	3.7	11.01	96.8
1/24/2008	2:30:00	3.6	11.03	96.8
1/24/2008	2:45:00	3.5	11.04	96.8
1/24/2008	3:00:00	3.5	11.06	96.8
1/24/2008	3:15:00	3.4	11.07	96.7
1/24/2008	3:30:00	3.4	11.08	96.7
1/24/2008	3:45:00	3.3	11.09	96.7
1/24/2008	4:00:00	3.3	11.10	96.6
1/24/2008	4:15:00	3.2	11.11	96.6
1/24/2008	4:30:00	3.2	11.12	96.6
1/24/2008	4:45:00	3.2	11.13	96.6
1/24/2008	5:00:00	3.2	11.13	96.7
1/24/2008	5:15:00	3.2	11.15	96.7
1/24/2008	5:30:00	3.1	11.16	96.8
1/24/2008	5:45:00	3.1	11.17	96.8
1/24/2008	6:00:00	3.1	11.18	96.9
1/24/2008	6:15:00	3.0	11.20	96.9
1/24/2008	6:30:00	3.0	11.21	96.9
1/24/2008	6:45:00	2.9	11.22	96.9
1/24/2008	7:00:00	2.9	11.24	96.9
1/24/2008	7:15:00	2.9	11.25	96.8
1/24/2008	7:30:00	2.8	11.26	96.9

Table 5.61. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	7:45:00	2.8	11.27	96.9
1/24/2008	8:00:00	2.8	11.29	96.9
1/24/2008	8:15:00	2.8	11.30	97.0
1/24/2008	8:30:00	2.7	11.31	97.0
1/24/2008	8:45:00	2.8	11.32	97.2
1/24/2008	9:00:00	2.8	11.33	97.3
1/24/2008	9:15:00	2.8	11.34	97.4
1/24/2008	9:30:00	2.8	11.34	97.6
1/24/2008	9:45:00	2.9	11.34	97.7
1/24/2008	10:00:00	2.9	11.34	97.8
1/24/2008	10:15:00	3.0	11.35	97.9
1/24/2008	10:30:00	3.0	11.34	98.0
1/24/2008	10:45:00	3.1	11.33	98.2
1/24/2008	11:00:00	3.2	11.33	98.4
1/24/2008	11:15:00	3.2	11.32	98.4
1/24/2008	11:30:00	3.3	11.31	98.5
1/24/2008	11:45:00	3.4	11.30	98.6
1/24/2008	12:00:00	3.5	11.28	98.7
1/24/2008	12:15:00	3.6	11.27	98.8
1/24/2008	12:30:00	3.6	11.25	98.9
1/24/2008	12:45:00	3.7	11.24	99.0
1/24/2008	13:00:00	3.8	11.22	99.0
1/24/2008	13:15:00	3.9	11.21	99.2
1/24/2008	13:30:00	4.0	11.18	99.3
1/24/2008	13:45:00	4.1	11.16	99.4
1/24/2008	14:00:00	4.2	11.14	99.4
1/24/2008	14:15:00	4.3	11.11	99.5
1/24/2008	14:30:00	4.5	11.09	99.6
1/24/2008	14:45:00	4.6	11.06	99.7
1/24/2008	15:00:00	4.7	11.03	99.7
1/24/2008	15:15:00	4.8	11.01	99.7
1/24/2008	15:30:00	4.8	10.99	99.6
1/24/2008	15:45:00	4.9	10.97	99.6
1/24/2008	16:00:00	4.9	10.95	99.6
1/24/2008	16:15:00	5.0	10.94	99.5
1/24/2008	16:30:00	4.9	10.93	99.3
1/24/2008	16:45:00	4.9	10.92	99.2
1/24/2008	17:00:00	4.9	10.91	99.0
1/24/2008	17:15:00	4.8	10.90	98.9
1/24/2008	17:30:00	4.8	10.90	98.8
1/24/2008	17:45:00	4.8	10.90	98.7
1/24/2008	18:00:00	4.7	10.90	98.6
1/24/2008	18:15:00	4.7	10.90	98.6
1/24/2008	18:30:00	4.7	10.90	98.5
1/24/2008	18:45:00	4.7	10.90	98.4
1/24/2008	19:00:00	4.6	10.90	98.4

Table 5.61. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/24/2008	19:15:00	4.6	10.90	98.3
1/24/2008	19:30:00	4.6	10.91	98.2
1/24/2008	19:45:00	4.5	10.91	98.2
1/24/2008	20:00:00	4.5	10.92	98.1
1/24/2008	20:15:00	4.4	10.92	98.0
1/24/2008	20:30:00	4.4	10.92	97.9
1/24/2008	20:45:00	4.3	10.93	97.8
1/24/2008	21:00:00	4.3	10.93	97.7
1/24/2008	21:15:00	4.2	10.94	97.6
1/24/2008	21:30:00	4.2	10.94	97.5
1/24/2008	21:45:00	4.1	10.94	97.4
1/24/2008	22:00:00	4.1	10.95	97.3
1/24/2008	22:15:00	4.0	10.95	97.3
1/24/2008	22:30:00	4.0	10.95	97.1
1/24/2008	22:45:00	3.9	10.96	97.0
1/24/2008	23:00:00	3.9	10.96	96.9
1/24/2008	23:15:00	3.8	10.97	96.9
1/24/2008	23:30:00	3.8	10.97	96.8
1/24/2008	23:45:00	3.7	10.97	96.7
1/25/2008	0:00:00	3.7	10.98	96.6
1/25/2008	0:15:00	3.6	10.98	96.5
1/25/2008	0:30:00	3.6	10.99	96.5
1/25/2008	0:45:00	3.6	10.99	96.5
1/25/2008	1:00:00	3.6	10.99	96.4
1/25/2008	1:15:00	3.5	10.99	96.3
1/25/2008	1:30:00	3.5	10.99	96.3
1/25/2008	1:45:00	3.5	10.99	96.3
1/25/2008	2:00:00	3.5	10.98	96.2
1/25/2008	2:15:00	3.5	10.98	96.2
1/25/2008	2:30:00	3.5	10.98	96.2
1/25/2008	2:45:00	3.5	10.98	96.1
1/25/2008	3:00:00	3.4	10.99	96.1
1/25/2008	3:15:00	3.4	10.99	96.1
1/25/2008	3:30:00	3.4	11.00	96.0
1/25/2008	3:45:00	3.4	11.01	96.0
1/25/2008	4:00:00	3.3	11.01	96.0
1/25/2008	4:15:00	3.3	11.02	96.0
1/25/2008	4:30:00	3.2	11.04	96.0
1/25/2008	4:45:00	3.2	11.05	96.0
1/25/2008	5:00:00	3.2	11.06	95.9
1/25/2008	5:15:00	3.1	11.07	95.9
1/25/2008	5:30:00	3.0	11.08	95.9
1/25/2008	5:45:00	3.0	11.10	95.8
1/25/2008	6:00:00	2.9	11.11	95.8
1/25/2008	6:15:00	2.9	11.12	95.8
1/25/2008	6:30:00	2.8	11.14	95.8

Table 5.61. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	6:45:00	2.8	11.15	95.7
1/25/2008	7:00:00	2.7	11.16	95.7
1/25/2008	7:15:00	2.7	11.17	95.7
1/25/2008	7:30:00	2.7	11.18	95.7
1/25/2008	7:45:00	2.6	11.19	95.8
1/25/2008	8:00:00	2.6	11.20	95.8
1/25/2008	8:15:00	2.6	11.21	96.0
1/25/2008	8:30:00	2.7	11.23	96.2
1/25/2008	8:45:00	2.7	11.25	96.4
1/25/2008	9:00:00	2.8	11.26	96.7
1/25/2008	9:15:00	2.9	11.28	97.1
1/25/2008	9:30:00	3.0	11.29	97.4
1/25/2008	9:45:00	3.1	11.30	97.8
1/25/2008	10:00:00	3.2	11.31	98.3
1/25/2008	10:15:00	3.4	11.31	98.8
1/25/2008	10:30:00	3.6	11.31	99.4
1/25/2008	10:45:00	3.8	11.31	99.9
1/25/2008	11:00:00	4.1	11.29	100.4
1/25/2008	11:15:00	4.3	11.28	100.9
1/25/2008	11:30:00	4.6	11.26	101.4
1/25/2008	11:45:00	4.8	11.23	101.9
1/25/2008	12:00:00	5.1	11.20	102.3
1/25/2008	12:15:00	5.4	11.17	102.7
1/25/2008	12:30:00	5.6	11.13	103.0
1/25/2008	12:45:00	5.9	11.09	103.4
1/25/2008	13:00:00	6.2	11.04	103.7
1/25/2008	13:15:00	6.5	10.99	104.0
1/25/2008	13:30:00	6.8	10.94	104.4
1/25/2008	13:45:00	7.1	10.89	104.6
1/25/2008	14:00:00	7.3	10.84	104.7
1/25/2008	14:15:00	7.4	10.80	104.6
1/25/2008	14:30:00	7.5	10.77	104.5
1/25/2008	14:45:00	7.6	10.73	104.3
1/25/2008	15:00:00	7.7	10.69	104.2
1/25/2008	15:15:00	7.7	10.65	104.0
1/25/2008	15:30:00	7.9	10.60	103.8
1/25/2008	15:45:00	8.0	10.55	103.6
1/25/2008	16:00:00	8.0	10.51	103.3
1/25/2008	16:15:00	8.0	10.48	103.0
1/25/2008	16:30:00	8.0	10.46	102.7
1/25/2008	16:45:00	7.9	10.45	102.3
1/25/2008	17:00:00	7.7	10.45	101.9
1/25/2008	17:15:00	7.5	10.46	101.6
1/25/2008	17:30:00	7.3	10.47	101.2
1/25/2008	17:45:00	7.2	10.47	100.8
1/25/2008	18:00:00	7.1	10.47	100.5

Table 5.61. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/25/2008	18:15:00	6.9	10.47	100.2
1/25/2008	18:30:00	6.8	10.47	99.9
1/25/2008	18:45:00	6.7	10.45	99.6
1/25/2008	19:00:00	6.7	10.45	99.3
1/25/2008	19:15:00	6.6	10.45	99.1
1/25/2008	19:30:00	6.5	10.46	98.9
1/25/2008	19:45:00	6.3	10.47	98.7
1/25/2008	20:00:00	6.2	10.48	98.5
1/25/2008	20:15:00	6.1	10.49	98.3
1/25/2008	20:30:00	6.0	10.51	98.1
1/25/2008	20:45:00	5.8	10.52	97.9
1/25/2008	21:00:00	5.7	10.54	97.8
1/25/2008	21:15:00	5.6	10.57	97.7
1/25/2008	21:30:00	5.4	10.59	97.6
1/25/2008	21:45:00	5.3	10.61	97.5
1/25/2008	22:00:00	5.2	10.63	97.4
1/25/2008	22:15:00	5.1	10.65	97.3
1/25/2008	22:30:00	5.0	10.66	97.2
1/25/2008	22:45:00	4.9	10.68	97.1
1/25/2008	23:00:00	4.9	10.69	97.0
1/25/2008	23:15:00	4.8	10.70	97.0
1/25/2008	23:30:00	4.7	10.71	96.9
1/25/2008	23:45:00	4.6	10.73	96.9
1/26/2008	0:00:00	4.6	10.75	96.8
1/26/2008	0:15:00	4.5	10.77	96.8
1/26/2008	0:30:00	4.4	10.79	96.7
1/26/2008	0:45:00	4.3	10.80	96.6
1/26/2008	1:00:00	4.2	10.82	96.6
1/26/2008	1:15:00	4.2	10.83	96.5
1/26/2008	1:30:00	4.1	10.84	96.5
1/26/2008	1:45:00	4.0	10.86	96.5
1/26/2008	2:00:00	4.0	10.87	96.4
1/26/2008	2:15:00	3.9	10.89	96.4
1/26/2008	2:30:00	3.9	10.90	96.4
1/26/2008	2:45:00	3.8	10.92	96.3
1/26/2008	3:00:00	3.7	10.94	96.3
1/26/2008	3:15:00	3.6	10.95	96.3
1/26/2008	3:30:00	3.6	10.97	96.2
1/26/2008	3:45:00	3.5	10.99	96.2
1/26/2008	4:00:00	3.4	11.01	96.2
1/26/2008	4:15:00	3.3	11.03	96.2
1/26/2008	4:30:00	3.3	11.05	96.2
1/26/2008	4:45:00	3.2	11.07	96.2
1/26/2008	5:00:00	3.1	11.09	96.1
1/26/2008	5:15:00	3.0	11.12	96.1
1/26/2008	5:30:00	2.9	11.14	96.1

Table 5.61. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

1/26/2008	5:45:00	2.8	11.16	96.0
1/26/2008	6:00:00	2.7	11.19	96.0
1/26/2008	6:15:00	2.7	11.21	96.0
1/26/2008	6:30:00	2.6	11.23	95.9
1/26/2008	6:45:00	2.5	11.25	95.9
1/26/2008	7:00:00	2.4	11.27	95.8
1/26/2008	7:15:00	2.3	11.28	95.8
1/26/2008	7:30:00	2.3	11.31	95.8
1/26/2008	7:45:00	2.2	11.32	95.8
1/26/2008	8:00:00	2.2	11.34	95.8
1/26/2008	8:15:00	2.2	11.36	96.0
1/26/2008	8:30:00	2.2	11.37	96.1
1/26/2008	8:45:00	2.2	11.40	96.4
1/26/2008	9:00:00	2.3	11.41	96.8

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Apollo**
Log	**File**	**Name**	**:**	**site1_4-11-2008p**
Setup	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**12:00:00**
Starting	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**12:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**6/3/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**16:06:34**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/11/2008	12:15:00	9.6	9.86	102.9
4/11/2008	12:30:00	9.7	9.84	102.9
4/11/2008	12:45:00	9.8	9.76	102.4
4/11/2008	13:00:00	10.0	9.66	101.8
4/11/2008	13:15:00	10.1	9.59	101.4
4/11/2008	13:30:00	10.3	9.53	101.1
4/11/2008	13:45:00	10.4	9.47	100.9
4/11/2008	14:00:00	10.6	9.46	101.0
4/11/2008	14:15:00	10.6	9.43	100.9
4/11/2008	14:30:00	10.7	9.43	101.0
4/11/2008	14:45:00	10.8	9.45	101.6
4/11/2008	15:00:00	10.9	9.49	102.3
4/11/2008	15:15:00	11.1	9.49	102.7
4/11/2008	15:30:00	11.2	9.49	103.0
4/11/2008	15:45:00	11.4	9.49	103.3
4/11/2008	16:00:00	11.4	9.49	103.2
4/11/2008	16:15:00	11.4	9.48	103.2
4/11/2008	16:30:00	11.5	9.42	102.8
4/11/2008	16:45:00	11.5	9.37	102.4
4/11/2008	17:00:00	11.6	9.34	102.2
4/11/2008	17:15:00	11.7	9.32	102.1
4/11/2008	17:30:00	11.7	9.31	102.1
4/11/2008	17:45:00	11.7	9.29	102.0
4/11/2008	18:00:00	11.8	9.25	101.6
4/11/2008	18:15:00	11.8	9.20	101.1
4/11/2008	18:30:00	11.7	9.16	100.6
4/11/2008	18:45:00	11.7	9.14	100.3
4/11/2008	19:00:00	11.7	9.12	100.1
4/11/2008	19:15:00	11.7	9.11	99.9
4/11/2008	19:30:00	11.6	9.09	99.6
4/11/2008	19:45:00	11.6	9.08	99.4
4/11/2008	20:00:00	11.6	9.08	99.4
4/11/2008	20:15:00	11.6	9.09	99.5
4/11/2008	20:30:00	11.5	9.09	99.4

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/11/2008	20:45:00	11.5	9.08	99.2
4/11/2008	21:00:00	11.4	9.06	98.7
4/11/2008	21:15:00	11.4	9.06	98.6
4/11/2008	21:30:00	11.3	9.07	98.5
4/11/2008	21:45:00	11.2	9.07	98.4
4/11/2008	22:00:00	11.1	9.08	98.2
4/11/2008	22:15:00	11.1	9.08	98.1
4/11/2008	22:30:00	11.0	9.08	97.9
4/11/2008	22:45:00	10.9	9.08	97.8
4/11/2008	23:00:00	10.8	9.09	97.7
4/11/2008	23:15:00	10.8	9.09	97.5
4/11/2008	23:30:00	10.7	9.10	97.5
4/11/2008	23:45:00	10.6	9.11	97.3
4/12/2008	0:00:00	10.5	9.12	97.1
4/12/2008	0:15:00	10.3	9.13	97.0
4/12/2008	0:30:00	10.2	9.13	96.7
4/12/2008	0:45:00	10.0	9.14	96.4
4/12/2008	1:00:00	9.9	9.15	96.2
4/12/2008	1:15:00	9.7	9.17	96.0
4/12/2008	1:30:00	9.6	9.19	95.8
4/12/2008	1:45:00	9.4	9.20	95.6
4/12/2008	2:00:00	9.3	9.21	95.5
4/12/2008	2:15:00	9.2	9.22	95.3
4/12/2008	2:30:00	9.1	9.22	95.1
4/12/2008	2:45:00	9.0	9.23	95.0
4/12/2008	3:00:00	8.9	9.24	94.9
4/12/2008	3:15:00	8.9	9.24	94.8
4/12/2008	3:30:00	8.8	9.25	94.7
4/12/2008	3:45:00	8.8	9.26	94.8
4/12/2008	4:00:00	8.7	9.27	94.8
4/12/2008	4:15:00	8.7	9.27	94.7
4/12/2008	4:30:00	8.6	9.27	94.6
4/12/2008	4:45:00	8.6	9.28	94.6
4/12/2008	5:00:00	8.6	9.29	94.6
4/12/2008	5:15:00	8.5	9.28	94.5
4/12/2008	5:30:00	8.5	9.29	94.5
4/12/2008	5:45:00	8.5	9.29	94.5
4/12/2008	6:00:00	8.5	9.30	94.5
4/12/2008	6:15:00	8.4	9.31	94.5
4/12/2008	6:30:00	8.4	9.32	94.6
4/12/2008	6:45:00	8.4	9.34	94.6
4/12/2008	7:00:00	8.3	9.34	94.6
4/12/2008	7:15:00	8.3	9.36	94.7
4/12/2008	7:30:00	8.3	9.36	94.7
4/12/2008	7:45:00	8.3	9.37	94.8

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	8:00:00	8.3	9.37	94.9
4/12/2008	8:15:00	8.3	9.38	94.9
4/12/2008	8:30:00	8.4	9.38	95.1
4/12/2008	8:45:00	8.4	9.39	95.2
4/12/2008	9:00:00	8.4	9.39	95.3
4/12/2008	9:15:00	8.5	9.38	95.4
4/12/2008	9:30:00	8.6	9.37	95.5
4/12/2008	9:45:00	8.7	9.36	95.6
4/12/2008	10:00:00	8.8	9.36	95.8
4/12/2008	10:15:00	8.9	9.36	96.1
4/12/2008	10:30:00	9.0	9.36	96.3
4/12/2008	10:45:00	9.2	9.35	96.6
4/12/2008	11:00:00	9.3	9.34	96.8
4/12/2008	11:15:00	9.5	9.33	97.1
4/12/2008	11:30:00	9.6	9.33	97.3
4/12/2008	11:45:00	9.7	9.32	97.5
4/12/2008	12:00:00	9.8	9.32	97.8
4/12/2008	12:15:00	10.0	9.30	98.0
4/12/2008	12:30:00	10.1	9.29	98.3
4/12/2008	12:45:00	10.3	9.28	98.5
4/12/2008	13:00:00	10.5	9.26	98.7
4/12/2008	13:15:00	10.6	9.25	99.0
4/12/2008	13:30:00	10.8	9.23	99.1
4/12/2008	13:45:00	11.0	9.22	99.4
4/12/2008	14:00:00	11.1	9.21	99.6
4/12/2008	14:15:00	11.3	9.19	99.8
4/12/2008	14:30:00	11.4	9.17	99.9
4/12/2008	14:45:00	11.6	9.15	100.1
4/12/2008	15:00:00	11.7	9.14	100.2
4/12/2008	15:15:00	11.9	9.12	100.5
4/12/2008	15:30:00	12.0	9.10	100.5
4/12/2008	15:45:00	12.1	9.09	100.6
4/12/2008	16:00:00	12.2	9.08	100.8
4/12/2008	16:15:00	12.3	9.07	100.9
4/12/2008	16:30:00	12.4	9.06	101.0
4/12/2008	16:45:00	12.5	9.05	101.1
4/12/2008	17:00:00	12.6	9.04	101.2
4/12/2008	17:15:00	12.6	9.04	101.3
4/12/2008	17:30:00	12.7	9.04	101.4
4/12/2008	17:45:00	12.7	9.03	101.4
4/12/2008	18:00:00	12.8	9.03	101.5
4/12/2008	18:15:00	12.8	9.03	101.6
4/12/2008	18:30:00	12.8	9.04	101.6
4/12/2008	18:45:00	12.8	9.05	101.8
4/12/2008	19:00:00	12.8	9.07	101.9

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	19:15:00	12.7	9.06	101.7
4/12/2008	19:30:00	12.6	9.07	101.6
4/12/2008	19:45:00	12.5	9.09	101.7
4/12/2008	20:00:00	12.5	9.07	101.3
4/12/2008	20:15:00	12.4	9.07	101.0
4/12/2008	20:30:00	12.3	9.08	100.8
4/12/2008	20:45:00	12.2	9.09	100.8
4/12/2008	21:00:00	12.1	9.08	100.4
4/12/2008	21:15:00	12.0	9.07	100.1
4/12/2008	21:30:00	11.9	9.08	100.0
4/12/2008	21:45:00	11.8	9.09	99.8
4/12/2008	22:00:00	11.7	9.10	99.7
4/12/2008	22:15:00	11.6	9.10	99.5
4/12/2008	22:30:00	11.4	9.10	99.3
4/12/2008	22:45:00	11.3	9.11	99.1
4/12/2008	23:00:00	11.2	9.11	98.9
4/12/2008	23:15:00	11.1	9.12	98.7
4/12/2008	23:30:00	11.0	9.13	98.5
4/12/2008	23:45:00	10.8	9.14	98.3
4/13/2008	0:00:00	10.7	9.16	98.2
4/13/2008	0:15:00	10.6	9.17	98.0
4/13/2008	0:30:00	10.4	9.19	97.9
4/13/2008	0:45:00	10.3	9.22	97.9
4/13/2008	1:00:00	10.2	9.23	97.6
4/13/2008	1:15:00	10.0	9.23	97.3
4/13/2008	1:30:00	9.9	9.24	97.1
4/13/2008	1:45:00	9.7	9.25	96.9
4/13/2008	2:00:00	9.6	9.26	96.6
4/13/2008	2:15:00	9.5	9.27	96.5
4/13/2008	2:30:00	9.3	9.28	96.3
4/13/2008	2:45:00	9.2	9.30	96.2
4/13/2008	3:00:00	9.1	9.32	96.1
4/13/2008	3:15:00	8.9	9.33	95.9
4/13/2008	3:30:00	8.8	9.35	95.8
4/13/2008	3:45:00	8.7	9.36	95.7
4/13/2008	4:00:00	8.6	9.38	95.7
4/13/2008	4:15:00	8.5	9.41	95.8
4/13/2008	4:30:00	8.5	9.44	95.9
4/13/2008	4:45:00	8.4	9.46	96.0
4/13/2008	5:00:00	8.3	9.48	96.0
4/13/2008	5:15:00	8.3	9.48	95.9
4/13/2008	5:30:00	8.2	9.48	95.8
4/13/2008	5:45:00	8.2	9.49	95.7
4/13/2008	6:00:00	8.1	9.50	95.8
4/13/2008	6:15:00	8.1	9.52	95.8

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	6:30:00	8.0	9.53	95.8
4/13/2008	6:45:00	8.0	9.54	95.9
4/13/2008	7:00:00	8.0	9.55	95.9
4/13/2008	7:15:00	8.0	9.56	95.9
4/13/2008	7:30:00	8.0	9.57	96.0
4/13/2008	7:45:00	7.9	9.58	96.1
4/13/2008	8:00:00	7.9	9.59	96.2
4/13/2008	8:15:00	8.0	9.60	96.4
4/13/2008	8:30:00	8.0	9.61	96.5
4/13/2008	8:45:00	8.0	9.62	96.7
4/13/2008	9:00:00	8.1	9.63	96.9
4/13/2008	9:15:00	8.1	9.65	97.2
4/13/2008	9:30:00	8.2	9.66	97.5
4/13/2008	9:45:00	8.3	9.66	97.8
4/13/2008	10:00:00	8.4	9.66	98.1
4/13/2008	10:15:00	8.5	9.66	98.4
4/13/2008	10:30:00	8.7	9.66	98.6
4/13/2008	10:45:00	8.8	9.65	98.8
4/13/2008	11:00:00	8.9	9.64	99.0
4/13/2008	11:15:00	9.1	9.63	99.4
4/13/2008	11:30:00	9.2	9.63	99.6
4/13/2008	11:45:00	9.4	9.61	99.8
4/13/2008	12:00:00	9.5	9.58	99.9
4/13/2008	12:15:00	9.7	9.56	100.1
4/13/2008	12:30:00	9.9	9.53	100.2
4/13/2008	12:45:00	10.0	9.51	100.4
4/13/2008	13:00:00	10.2	9.49	100.6
4/13/2008	13:15:00	10.4	9.48	100.9
4/13/2008	13:30:00	10.6	9.47	101.2
4/13/2008	13:45:00	10.8	9.45	101.5
4/13/2008	14:00:00	11.0	9.44	101.8
4/13/2008	14:15:00	11.2	9.43	102.1
4/13/2008	14:30:00	11.3	9.42	102.4
4/13/2008	14:45:00	11.5	9.41	102.8
4/13/2008	15:00:00	11.7	9.41	103.2
4/13/2008	15:15:00	11.9	9.39	103.5
4/13/2008	15:30:00	12.0	9.39	103.8
4/13/2008	15:45:00	12.2	9.38	104.1
4/13/2008	16:00:00	12.4	9.37	104.4
4/13/2008	16:15:00	12.5	9.37	104.7
4/13/2008	16:30:00	12.7	9.37	105.0
4/13/2008	16:45:00	12.8	9.37	105.4
4/13/2008	17:00:00	12.9	9.35	105.5
4/13/2008	17:15:00	13.0	9.33	105.5
4/13/2008	17:30:00	13.1	9.32	105.6

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	17:45:00	13.2	9.29	105.5
4/13/2008	18:00:00	13.3	9.28	105.5
4/13/2008	18:15:00	13.3	9.27	105.4
4/13/2008	18:30:00	13.3	9.24	105.2
4/13/2008	18:45:00	13.3	9.23	105.1
4/13/2008	19:00:00	13.3	9.21	104.9
4/13/2008	19:15:00	13.3	9.20	104.6
4/13/2008	19:30:00	13.3	9.20	104.6
4/13/2008	19:45:00	13.2	9.19	104.4
4/13/2008	20:00:00	13.2	9.19	104.3
4/13/2008	20:15:00	13.1	9.19	104.1
4/13/2008	20:30:00	13.0	9.18	103.8
4/13/2008	20:45:00	13.0	9.17	103.5
4/13/2008	21:00:00	12.9	9.16	103.2
4/13/2008	21:15:00	12.8	9.15	102.9
4/13/2008	21:30:00	12.7	9.13	102.5
4/13/2008	21:45:00	12.6	9.14	102.3
4/13/2008	22:00:00	12.5	9.14	102.1
4/13/2008	22:15:00	12.4	9.15	101.9
4/13/2008	22:30:00	12.2	9.17	101.8
4/13/2008	22:45:00	12.1	9.18	101.6
4/13/2008	23:00:00	11.9	9.18	101.3
4/13/2008	23:15:00	11.8	9.19	101.0
4/13/2008	23:30:00	11.6	9.19	100.6
4/13/2008	23:45:00	11.5	9.19	100.3
4/14/2008	0:00:00	11.3	9.19	100.0
4/14/2008	0:15:00	11.2	9.19	99.6
4/14/2008	0:30:00	11.0	9.20	99.3
4/14/2008	0:45:00	10.8	9.22	99.1
4/14/2008	1:00:00	10.7	9.24	99.0
4/14/2008	1:15:00	10.5	9.25	98.8
4/14/2008	1:30:00	10.4	9.26	98.5
4/14/2008	1:45:00	10.2	9.26	98.1
4/14/2008	2:00:00	10.1	9.27	97.8
4/14/2008	2:15:00	9.9	9.28	97.7
4/14/2008	2:30:00	9.8	9.30	97.6
4/14/2008	2:45:00	9.6	9.32	97.4
4/14/2008	3:00:00	9.5	9.33	97.2
4/14/2008	3:15:00	9.4	9.35	97.1
4/14/2008	3:30:00	9.3	9.37	97.1
4/14/2008	3:45:00	9.2	9.38	96.9
4/14/2008	4:00:00	9.0	9.40	96.8
4/14/2008	4:15:00	8.9	9.42	96.9
4/14/2008	4:30:00	8.9	9.44	96.8
4/14/2008	4:45:00	8.8	9.45	96.8

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	5:00:00	8.7	9.46	96.6
4/14/2008	5:15:00	8.6	9.47	96.5
4/14/2008	5:30:00	8.5	9.47	96.4
4/14/2008	5:45:00	8.5	9.47	96.2
4/14/2008	6:00:00	8.4	9.48	96.1
4/14/2008	6:15:00	8.4	9.48	96.1
4/14/2008	6:30:00	8.3	9.49	96.0
4/14/2008	6:45:00	8.2	9.49	95.9
4/14/2008	7:00:00	8.2	9.48	95.7
4/14/2008	7:15:00	8.1	9.48	95.6
4/14/2008	7:30:00	8.1	9.48	95.5
4/14/2008	7:45:00	8.1	9.49	95.5
4/14/2008	8:00:00	8.1	9.50	95.6
4/14/2008	8:15:00	8.1	9.50	95.7
4/14/2008	8:30:00	8.1	9.51	95.8
4/14/2008	8:45:00	8.2	9.52	96.0
4/14/2008	9:00:00	8.2	9.52	96.2
4/14/2008	9:15:00	8.3	9.52	96.3
4/14/2008	9:30:00	8.4	9.52	96.6
4/14/2008	9:45:00	8.5	9.53	96.9
4/14/2008	10:00:00	8.6	9.54	97.2
4/14/2008	10:15:00	8.7	9.55	97.5
4/14/2008	10:30:00	8.8	9.56	98.0
4/14/2008	10:45:00	9.0	9.56	98.3
4/14/2008	11:00:00	9.1	9.55	98.5
4/14/2008	11:15:00	9.3	9.55	98.9
4/14/2008	11:30:00	9.4	9.54	99.2
4/14/2008	11:45:00	9.6	9.54	99.5
4/14/2008	12:00:00	9.7	9.53	99.8
4/14/2008	12:15:00	9.9	9.53	100.2
4/14/2008	12:30:00	10.1	9.51	100.4
4/14/2008	12:45:00	10.3	9.50	100.7
4/14/2008	13:00:00	10.4	9.48	101.0
4/14/2008	13:15:00	10.6	9.48	101.4
4/14/2008	13:30:00	10.8	9.48	101.9
4/14/2008	13:45:00	11.0	9.47	102.2
4/14/2008	14:00:00	11.2	9.46	102.6
4/14/2008	14:15:00	11.4	9.46	103.1
4/14/2008	14:30:00	11.6	9.44	103.4
4/14/2008	14:45:00	11.3	9.42	103.6
4/14/2008	15:00:00	12.0	9.41	103.9
4/14/2008	15:15:00	12.2	9.40	104.3
4/14/2008	15:30:00	12.3	9.39	104.5
4/14/2008	15:45:00	12.5	9.38	104.9
4/14/2008	16:00:00	12.7	9.37	105.1

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	16:15:00	12.8	9.34	105.2
4/14/2008	16:30:00	13.0	9.32	105.2
4/14/2008	16:45:00	13.1	9.30	105.4
4/14/2008	17:00:00	13.3	9.28	105.5
4/14/2008	17:15:00	13.4	9.24	105.3
4/14/2008	17:30:00	13.5	9.19	105.0
4/14/2008	17:45:00	13.5	9.17	104.9
4/14/2008	18:00:00	13.6	9.15	104.7
4/14/2008	18:15:00	13.6	9.12	104.5
4/14/2008	18:30:00	13.7	9.09	104.3
4/14/2008	18:45:00	13.7	9.07	104.0
4/14/2008	19:00:00	13.7	9.07	104.0
4/14/2008	19:15:00	13.7	9.07	104.0
4/14/2008	19:30:00	13.7	9.07	103.9
4/14/2008	19:45:00	13.6	9.05	103.7
4/14/2008	20:00:00	13.6	9.05	103.6
4/14/2008	20:15:00	13.6	9.03	103.4
4/14/2008	20:30:00	13.5	9.01	103.0
4/14/2008	20:45:00	13.5	8.99	102.6
4/14/2008	21:00:00	13.4	8.98	102.4
4/14/2008	21:15:00	13.3	8.97	102.1
4/14/2008	21:30:00	13.2	8.96	101.8
4/14/2008	21:45:00	13.1	8.94	101.3
4/14/2008	22:00:00	13.0	8.91	100.8
4/14/2008	22:15:00	12.9	8.90	100.3
4/14/2008	22:30:00	12.8	8.90	100.1
4/14/2008	22:45:00	12.7	8.91	99.9
4/14/2008	23:00:00	12.5	8.91	99.6
4/14/2008	23:15:00	12.4	8.93	99.5
4/14/2008	23:30:00	12.2	8.96	99.5
4/14/2008	23:45:00	12.1	8.98	99.4
4/15/2008	0:00:00	11.9	9.01	99.4
4/15/2008	0:15:00	11.8	9.04	99.3
4/15/2008	0:30:00	11.6	9.06	99.2
4/15/2008	0:45:00	11.5	9.09	99.1
4/15/2008	1:00:00	11.3	9.10	98.9
4/15/2008	1:15:00	11.1	9.11	98.6
4/15/2008	1:30:00	11.0	9.13	98.5
4/15/2008	1:45:00	10.8	9.16	98.4
4/15/2008	2:00:00	10.6	9.17	98.2
4/15/2008	2:15:00	10.5	9.17	97.8
4/15/2008	2:30:00	10.3	9.16	97.3
4/15/2008	2:45:00	10.2	9.16	96.9
4/15/2008	3:00:00	10.0	9.15	96.5
4/15/2008	3:15:00	9.9	9.15	96.2

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	3:30:00	9.8	9.15	96.0
4/15/2008	3:45:00	9.6	9.15	95.6
4/15/2008	4:00:00	9.5	9.15	95.4
4/15/2008	4:15:00	9.4	9.16	95.2
4/15/2008	4:30:00	9.3	9.16	95.0
4/15/2008	4:45:00	9.2	9.16	94.7
4/15/2008	5:00:00	9.1	9.16	94.5
4/15/2008	5:15:00	9.0	9.16	94.3
4/15/2008	5:30:00	8.9	9.16	94.2
4/15/2008	5:45:00	8.9	9.17	94.1
4/15/2008	6:00:00	8.8	9.19	94.1
4/15/2008	6:15:00	8.7	9.20	94.1
4/15/2008	6:30:00	8.7	9.21	94.1
4/15/2008	6:45:00	8.6	9.23	94.2
4/15/2008	7:00:00	8.6	9.25	94.2
4/15/2008	7:15:00	8.5	9.25	94.2
4/15/2008	7:30:00	8.5	9.26	94.1
4/15/2008	7:45:00	8.5	9.26	94.1
4/15/2008	8:00:00	8.5	9.27	94.2
4/15/2008	8:15:00	8.5	9.27	94.2
4/15/2008	8:30:00	8.5	9.27	94.3
4/15/2008	8:45:00	8.5	9.28	94.4
4/15/2008	9:00:00	8.6	9.29	94.6
4/15/2008	9:15:00	8.7	9.30	95.0
4/15/2008	9:30:00	8.8	9.31	95.2
4/15/2008	9:45:00	8.8	9.31	95.5
4/15/2008	10:00:00	8.9	9.31	95.7
4/15/2008	10:15:00	9.1	9.31	95.9
4/15/2008	10:30:00	9.2	9.31	96.2
4/15/2008	10:45:00	9.3	9.30	96.5
4/15/2008	11:00:00	9.5	9.29	96.7
4/15/2008	11:15:00	9.6	9.27	96.8
4/15/2008	11:30:00	9.8	9.26	97.1
4/15/2008	11:45:00	9.9	9.24	97.3
4/15/2008	12:00:00	10.1	9.23	97.4
4/15/2008	12:15:00	10.3	9.21	97.6
4/15/2008	12:30:00	10.4	9.19	97.8
4/15/2008	12:45:00	10.6	9.16	98.0
4/15/2008	13:00:00	10.8	9.14	98.2
4/15/2008	13:15:00	11.0	9.13	98.5
4/15/2008	13:30:00	11.2	9.11	98.7
4/15/2008	13:45:00	11.4	9.09	98.9
4/15/2008	14:00:00	11.6	9.07	99.2
4/15/2008	14:15:00	11.7	9.05	99.4
4/15/2008	14:30:00	11.9	9.03	99.6

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	14:45:00	12.1	9.01	99.7
4/15/2008	15:00:00	12.3	8.99	99.9
4/15/2008	15:15:00	12.4	8.96	99.9
4/15/2008	15:30:00	12.6	8.93	100.1
4/15/2008	15:45:00	12.8	8.92	100.2
4/15/2008	16:00:00	12.9	8.92	100.6
4/15/2008	16:15:00	13.1	8.90	100.8
4/15/2008	16:30:00	13.2	8.88	100.9
4/15/2008	16:45:00	13.4	8.85	100.9
4/15/2008	17:00:00	13.5	8.83	100.9
4/15/2008	17:15:00	13.6	8.81	100.8
4/15/2008	17:30:00	13.7	8.79	100.7
4/15/2008	17:45:00	13.7	8.76	100.7
4/15/2008	18:00:00	13.8	8.76	100.6
4/15/2008	18:15:00	13.8	8.74	100.5
4/15/2008	18:30:00	13.8	8.73	100.4
4/15/2008	18:45:00	13.8	8.73	100.3
4/15/2008	19:00:00	13.8	8.72	100.2
4/15/2008	19:15:00	13.7	8.70	99.9
4/15/2008	19:30:00	13.7	8.69	99.7
4/15/2008	19:45:00	13.6	8.68	99.5
4/15/2008	20:00:00	13.6	8.67	99.2
4/15/2008	20:15:00	13.5	8.67	99.1
4/15/2008	20:30:00	13.5	8.66	98.9
4/15/2008	20:45:00	13.4	8.67	98.8
4/15/2008	21:00:00	13.3	8.67	98.7
4/15/2008	21:15:00	13.2	8.67	98.5
4/15/2008	21:30:00	13.1	8.68	98.4
4/15/2008	21:45:00	13.0	8.69	98.3
4/15/2008	22:00:00	12.9	8.70	98.1
4/15/2008	22:15:00	12.8	8.71	98.0
4/15/2008	22:30:00	12.7	8.71	97.8
4/15/2008	22:45:00	12.6	8.72	97.6
4/15/2008	23:00:00	12.5	8.73	97.5
4/15/2008	23:15:00	12.4	8.75	97.4
4/15/2008	23:30:00	12.2	8.76	97.3
4/15/2008	23:45:00	12.1	8.76	97.0
4/16/2008	0:00:00	12.0	8.77	96.8
4/16/2008	0:15:00	11.8	8.78	96.6
4/16/2008	0:30:00	11.7	8.79	96.5
4/16/2008	0:45:00	11.5	8.82	96.4
4/16/2008	1:00:00	11.4	8.85	96.3
4/16/2008	1:15:00	11.2	8.87	96.2
4/16/2008	1:30:00	11.0	8.89	96.1
4/16/2008	1:45:00	10.9	8.90	95.8

Table 5.63. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/16/2008	2:00:00	10.8	8.91	95.6
4/16/2008	2:15:00	10.6	8.91	95.3
4/16/2008	2:30:00	10.5	8.91	95.0
4/16/2008	2:45:00	10.3	8.92	94.7
4/16/2008	3:00:00	10.2	8.93	94.5
4/16/2008	3:15:00	10.0	8.93	94.2
4/16/2008	3:30:00	9.9	8.94	94.0
4/16/2008	3:45:00	9.8	8.94	93.8
4/16/2008	4:00:00	9.7	8.95	93.6
4/16/2008	4:15:00	9.6	8.96	93.5
4/16/2008	4:30:00	9.5	8.97	93.4
4/16/2008	4:45:00	9.4	8.98	93.3
4/16/2008	5:00:00	9.3	9.00	93.2
4/16/2008	5:15:00	9.2	9.01	93.2
4/16/2008	5:30:00	9.2	9.01	93.1
4/16/2008	5:45:00	9.1	9.02	93.1
4/16/2008	6:00:00	9.1	9.02	93.1
4/16/2008	6:15:00	9.1	9.02	93.0
4/16/2008	6:30:00	9.1	9.02	93.0
4/16/2008	6:45:00	9.0	9.02	93.0
4/16/2008	7:00:00	9.0	9.03	93.0
4/16/2008	7:15:00	9.0	9.03	92.9
4/16/2008	7:30:00	9.0	9.03	92.9
4/16/2008	7:45:00	9.0	9.04	93.0
4/16/2008	8:00:00	9.0	9.04	93.0
4/16/2008	8:15:00	10.0	9.04	93.0
4/16/2008	8:30:00	9.0	9.04	93.1
4/16/2008	8:45:00	9.0	9.05	93.2
4/16/2008	9:00:00	9.1	9.05	93.4
4/16/2008	9:15:00	9.2	9.05	93.6
4/16/2008	9:30:00	9.3	9.06	93.8
4/16/2008	9:45:00	9.3	9.06	94.0
4/16/2008	10:00:00	9.5	9.06	94.3
4/16/2008	10:15:00	9.6	9.06	94.5
4/16/2008	10:30:00	9.7	9.60	100.4
4/16/2008	10:45:00	9.8	9.49	99.6
4/16/2008	11:00:00	9.9	9.39	98.9
4/16/2008	11:15:00	10.1	9.32	98.5
4/16/2008	11:30:00	10.2	9.28	98.4
4/16/2008	11:45:00	10.4	9.25	98.4
4/16/2008	12:00:00	10.5	9.23	98.5
4/16/2008	12:15:00	10.7	9.20	98.6
4/16/2008	12:30:00	10.9	9.18	98.8
4/16/2008	12:45:00	11.1	9.15	98.9
4/16/2008	13:00:00	11.2	9.14	99.2

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**site1_4-11-08**
Setup	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**113447**
Starting	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**113422**
Stopping	**Date**	**(MMDDYY)**	**:**	**4/18/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
4/11/2008	12:04:22	9.3	248	7.98	8.22	85.1
4/11/2008	12:19:22	9.5	237	8.03	8.26	85.9
4/11/2008	12:34:22	9.6	225	8.05	8.17	85.2
4/11/2008	12:49:22	9.7	224	8.13	8.25	86.4
4/11/2008	13:04:22	9.9	219	8.20	8.23	86.5
4/11/2008	13:19:22	10.0	217	8.24	8.25	86.9
4/11/2008	13:34:22	10.2	203	8.27	8.30	87.7
4/11/2008	13:49:22	10.3	190	8.30	8.27	87.7
4/11/2008	14:04:22	10.4	189	8.30	8.27	87.9
4/11/2008	14:19:22	10.5	183	8.33	8.27	88.1
4/11/2008	14:34:22	10.6	182	8.34	8.29	88.5
4/11/2008	14:49:22	10.7	186	8.35	8.28	88.7
4/11/2008	15:04:22	10.8	188	8.38	8.28	88.9
4/11/2008	15:19:22	11.0	187	8.42	8.31	89.7
4/11/2008	15:34:22	11.2	186	8.43	8.28	89.5
4/11/2008	15:49:22	11.2	184	8.47	8.26	89.4
4/11/2008	16:04:22	11.2	184	8.47	8.19	88.7
4/11/2008	16:19:22	11.2	182	8.50	8.07	87.5
4/11/2008	16:34:22	11.3	183	8.51	7.66	83.2
4/11/2008	16:49:22	11.4	184	8.54	7.19	78.2
4/11/2008	17:04:22	11.4	185	8.56	6.79	73.9
4/11/2008	17:19:22	11.5	183	8.55	6.29	68.6
4/11/2008	17:34:22	11.6	180	8.58	5.92	64.6
4/11/2008	17:49:22	11.6	180	8.58	5.65	61.8
4/11/2008	18:04:22	11.6	179	8.60	5.39	58.9
4/11/2008	18:19:22	11.6	178	8.61	5.05	55.2
4/11/2008	18:34:22	11.6	178	8.62	4.80	52.4
4/11/2008	18:49:22	11.6	177	8.64	4.60	50.2
4/11/2008	19:04:22	11.6	178	8.64	4.2*	45.8
4/11/2008	19:19:22	11.5	179	8.66	4.05	44.2
4/11/2008	19:34:22	11.5	178	8.66	3.75	40.9
4/11/2008	19:49:22	11.5	177	8.66	3.61	39.4

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/11/2008	20:04:22	11.5	178	8.68	3.36	36.6
4/11/2008	20:19:22	11.4	178	8.69	2.72	29.6
4/11/2008	20:34:22	11.4	176	8.69	2.08	22.7
4/11/2008	20:49:22	11.3	176	8.70	1.78	19.3
4/11/2008	21:04:22	11.3	177	8.71	1.54	16.7
4/11/2008	21:19:22	11.2	177	8.71	1.44	15.6
4/11/2008	21:34:22	11.1	177	8.72	1.30	14.1
4/11/2008	21:49:22	11.0	175	8.72	1.27	13.7
4/11/2008	22:04:22	11.0	174	8.76	1.16	12.5
4/11/2008	22:19:22	10.9	175	8.76	1.08	11.6
4/11/2008	22:34:22	10.8	174	8.76	1.02	11.0
4/11/2008	22:49:22	10.8	176	8.77	0.98	10.5
4/11/2008	23:04:22	10.7	176	8.76	0.98	10.5
4/11/2008	23:19:22	10.6	175	8.77	0.96	10.2
4/11/2008	23:34:22	10.5	174	8.74	0.91	9.6
4/11/2008	23:49:22	10.4	173	8.74	0.91	9.7
4/12/2008	0:04:22	10.3	173	8.73	0.83	8.8
4/12/2008	0:19:22	10.1	173	8.74	0.80	8.5
4/12/2008	0:34:22	10.0	172	8.73	0.84	8.8
4/12/2008	0:49:22	9.9	172	8.71	0.81	8.5
4/12/2008	1:04:22	9.7	172	8.69	0.73	7.6
4/12/2008	1:19:22	9.6	171	8.67	0.72	7.5
4/12/2008	1:34:22	9.4	171	8.66	0.70	7.3
4/12/2008	1:49:22	9.3	171	8.64	0.67	6.9
4/12/2008	2:04:22	9.1	170	8.63	0.64	6.6
4/12/2008	2:19:22	9.0	169	8.62	0.63	6.4
4/12/2008	2:34:22	8.9	169	8.61	0.62	6.4
4/12/2008	2:49:22	8.9	169	8.60	0.59	6.1
4/12/2008	3:04:22	8.8	169	8.59	0.57	5.8
4/12/2008	3:19:22	8.7	169	8.58	0.53	5.4
4/12/2008	3:34:22	8.7	169	8.58	0.53	5.4
4/12/2008	3:49:22	8.6	169	8.58	0.50	5.1
4/12/2008	4:04:22	8.6	169	8.58	0.52	5.3
4/12/2008	4:19:22	8.6	169	8.57	0.52	5.3
4/12/2008	4:34:22	8.5	169	8.57	0.47	4.8
4/12/2008	4:49:22	8.5	169	8.56	0.52	5.2
4/12/2008	5:04:22	8.4	169	8.55	0.50	5.1
4/12/2008	5:19:22	8.4	169	8.55	0.48	4.9
4/12/2008	5:34:22	8.4	169	8.54	0.44	4.5
4/12/2008	5:49:22	8.4	170	8.54	0.42	4.3
4/12/2008	6:04:22	8.3	170	8.54	0.47	4.7
4/12/2008	6:19:22	8.3	170	8.53	0.42	4.3
4/12/2008	6:34:22	8.3	171	8.52	0.48	4.9
4/12/2008	6:49:22	8.2	172	8.52	0.50	5.1
4/12/2008	7:04:22	8.2	172	8.52	0.51	5.1
4/12/2008	7:19:22	8.2	172	8.53	0.52	5.3

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	7:34:22	8.2	173	8.52	0.52	5.2
4/12/2008	7:49:22	8.2	173	8.52	0.53	5.3
4/12/2008	8:04:22	8.2	172	8.52	0.58	5.8
4/12/2008	8:19:22	8.2	171	8.51	0.55	5.6
4/12/2008	8:34:22	8.2	170	8.51	0.57	5.7
4/12/2008	8:49:22	8.3	169	8.51	0.53	5.3
4/12/2008	9:04:22	8.3	170	8.50	0.52	5.3
4/12/2008	9:19:22	8.4	170	8.50	0.54	5.5
4/12/2008	9:34:22	8.5	171	8.50	0.54	5.5
4/12/2008	9:49:22	8.6	171	8.50	0.55	5.6
4/12/2008	10:04:22	8.7	171	8.49	0.58	5.9
4/12/2008	10:19:22	8.8	171	8.49	0.58	6.0
4/12/2008	10:34:22	8.9	172	8.51	0.62	6.4
4/12/2008	10:49:22	9.1	172	8.50	0.61	6.2
4/12/2008	11:04:22	9.2	173	8.51	0.63	6.5
4/12/2008	11:19:22	9.4	173	8.50	0.62	6.4
4/12/2008	11:34:22	9.4	174	8.50	0.64	6.6
4/12/2008	11:49:22	9.6	174	8.50	0.66	6.9
4/12/2008	12:04:22	9.7	175	8.50	0.72	7.5
4/12/2008	12:19:22	9.9	175	8.49	0.73	7.7
4/12/2008	12:34:22	10.0	175	8.52	0.74	7.8
4/12/2008	12:49:22	10.2	177	8.51	0.78	8.2
4/12/2008	13:04:22	10.4	177	8.52	0.78	8.3
4/12/2008	13:19:22	10.5	177	8.52	0.75	8.0
4/12/2008	13:34:22	10.7	178	8.52	0.80	8.6
4/12/2008	13:49:22	10.8	177	8.54	0.84	9.0
4/12/2008	14:04:22	11.0	178	8.55	0.95	10.2
4/12/2008	14:19:22	11.1	177	8.56	0.95	10.2
4/12/2008	14:34:22	11.3	175	8.62	0.90	9.8
4/12/2008	14:49:22	11.4	174	8.62	0.91	9.9
4/12/2008	15:04:22	11.6	172	8.64	0.91	9.9
4/12/2008	15:19:22	11.8	171	8.66	0.86	9.5
4/12/2008	15:34:22	11.9	172	8.67	0.83	9.1
4/12/2008	15:49:22	12.0	172	8.68	0.76	8.4
4/12/2008	16:04:22	12.1	173	8.68	0.72	8.0
4/12/2008	16:19:22	12.2	173	8.68	0.71	7.8
4/12/2008	16:34:22	12.3	173	8.69	0.66	7.3
4/12/2008	16:49:22	12.4	173	8.67	0.65	7.2
4/12/2008	17:04:22	12.4	173	8.66	0.63	7.0
4/12/2008	17:19:22	12.5	173	8.64	0.62	6.9
4/12/2008	17:34:22	12.5	172	8.64	0.61	6.8
4/12/2008	17:49:22	12.6	173	8.64	0.58	6.5
4/12/2008	18:04:22	12.6	174	8.63	0.57	6.4
4/12/2008	18:19:22	12.6	175	8.68	0.59	6.6
4/12/2008	18:34:22	12.6	175	8.70	0.60	6.7
4/12/2008	18:49:22	12.6	175	8.71	0.60	6.7

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	19:04:22	12.6	176	8.71	0.62	6.9
4/12/2008	19:19:22	12.5	177	8.73	0.59	6.6
4/12/2008	19:34:22	12.5	176	8.75	0.63	7.0
4/12/2008	19:49:22	12.4	176	8.75	0.61	6.7
4/12/2008	20:04:22	12.3	176	8.75	0.58	6.4
4/12/2008	20:19:22	12.2	176	8.75	0.61	6.8
4/12/2008	20:34:22	12.1	175	8.75	0.56	6.2
4/12/2008	20:49:22	12.0	173	8.73	0.56	6.1
4/12/2008	21:04:22	11.9	173	8.72	0.56	6.2
4/12/2008	21:19:22	11.8	172	8.73	0.56	6.2
4/12/2008	21:34:22	11.7	172	8.73	0.54	6.0
4/12/2008	21:49:22	11.6	172	8.72	0.52	5.7
4/12/2008	22:04:22	11.5	171	8.71	0.53	5.8
4/12/2008	22:19:22	11.4	173	8.70	0.59	6.4
4/12/2008	22:34:22	11.3	173	8.70	0.57	6.1
4/12/2008	22:49:22	11.2	170	8.69	0.54	5.9
4/12/2008	23:04:22	11.1	171	8.69	0.57	6.2
4/12/2008	23:19:22	10.9	171	8.69	0.56	6.0
4/12/2008	23:34:22	10.8	170	8.69	0.58	6.3
4/12/2008	23:49:22	10.7	170	8.69	0.58	6.2
4/13/2008	0:04:22	10.5	170	8.69	0.58	6.2
4/13/2008	0:19:22	10.4	172	8.69	0.52	5.6
4/13/2008	0:34:22	10.3	172	8.68	0.55	5.8
4/13/2008	0:49:22	10.1	172	8.67	0.59	6.2
4/13/2008	1:04:22	10.0	170	8.67	0.54	5.6
4/13/2008	1:19:22	9.8	169	8.66	0.57	6.0
4/13/2008	1:34:22	9.7	169	8.66	0.60	6.3
4/13/2008	1:49:22	9.6	169	8.65	0.57	6.0
4/13/2008	2:04:22	9.4	168	8.65	0.57	5.9
4/13/2008	2:19:22	9.3	170	8.64	0.54	5.6
4/13/2008	2:34:22	9.2	170	8.64	0.57	5.9
4/13/2008	2:49:22	9.0	171	8.63	0.55	5.6
4/13/2008	3:04:22	8.9	170	8.62	0.54	5.6
4/13/2008	3:19:22	8.8	171	8.61	0.55	5.6
4/13/2008	3:34:22	8.7	172	8.60	0.57	5.8
4/13/2008	3:49:22	8.6	170	8.59	0.55	5.6
4/13/2008	4:04:22	8.5	172	8.58	0.55	5.6
4/13/2008	4:19:22	8.4	173	8.57	0.60	6.1
4/13/2008	4:34:22	8.3	172	8.57	0.60	6.1
4/13/2008	4:49:22	8.3	173	8.56	0.56	5.7
4/13/2008	5:04:22	8.2	171	8.56	0.58	5.9
4/13/2008	5:19:22	8.2	172	8.55	0.60	6.1
4/13/2008	5:34:22	8.1	172	8.55	0.61	6.1
4/13/2008	5:49:22	8.1	172	8.54	0.63	6.3
4/13/2008	6:04:22	8.0	170	8.54	0.58	5.9
4/13/2008	6:19:22	8.0	169	8.54	0.63	6.3

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	6:34:22	7.9	169	8.54	0.61	6.2
4/13/2008	6:49:22	7.9	169	8.53	0.63	6.3
4/13/2008	7:04:22	7.9	168	8.53	0.59	5.9
4/13/2008	7:19:22	7.8	168	8.53	0.60	6.0
4/13/2008	7:34:22	7.8	168	8.52	0.59	5.9
4/13/2008	7:49:22	7.8	170	8.52	0.60	6.0
4/13/2008	8:04:22	7.8	170	8.52	0.61	6.1
4/13/2008	8:19:22	7.9	171	8.52	0.55	5.5
4/13/2008	8:34:22	7.9	171	8.52	0.58	5.8
4/13/2008	8:49:22	7.9	171	8.51	0.59	5.9
4/13/2008	9:04:22	8.0	170	8.51	0.56	5.6
4/13/2008	9:19:22	8.0	171	8.51	0.58	5.8
4/13/2008	9:34:22	8.1	172	8.51	0.52	5.2
4/13/2008	9:49:22	8.2	172	8.51	0.52	5.2
4/13/2008	10:04:22	8.3	172	8.51	0.55	5.6
4/13/2008	10:19:22	8.5	171	8.50	0.54	5.4
4/13/2008	10:34:22	8.6	173	8.50	0.50	5.1
4/13/2008	10:49:22	8.7	173	8.50	0.52	5.3
4/13/2008	11:04:22	8.9	171	8.51	0.48	5.0
4/13/2008	11:19:22	9.0	170	8.51	0.47	4.8
4/13/2008	11:34:22	9.1	169	8.52	0.44	4.6
4/13/2008	11:49:22	9.3	168	8.52	0.43	4.4
4/13/2008	12:04:22	9.4	167	8.52	0.43	4.5
4/13/2008	12:19:22	9.6	167	8.53	0.39	4.1
4/13/2008	12:34:22	9.8	167	8.52	0.39	4.1
4/13/2008	12:49:22	9.9	167	8.53	0.38	4.0
4/13/2008	13:04:22	10.1	167	8.55	0.38	4.0
4/13/2008	13:19:22	10.3	168	8.59	0.38	4.0
4/13/2008	13:34:22	10.5	168	8.62	0.35	3.7
4/13/2008	13:49:22	10.7	169	8.63	0.33	3.6
4/13/2008	14:04:22	10.9	170	8.64	0.33	3.5
4/13/2008	14:19:22	11.1	171	8.65	0.35	3.8
4/13/2008	14:34:22	11.2	171	8.65	0.35	3.8
4/13/2008	14:49:22	11.4	172	8.65	0.33	3.6
4/13/2008	15:04:22	11.6	173	8.66	0.31	3.4
4/13/2008	15:19:22	11.8	174	8.66	0.33	3.6
4/13/2008	15:34:22	11.9	174	8.66	0.31	3.4
4/13/2008	15:49:22	12.1	175	8.65	0.32	3.5
4/13/2008	16:04:22	12.3	175	8.65	0.31	3.4
4/13/2008	16:19:22	12.4	176	8.65	0.32	3.6
4/13/2008	16:34:22	12.5	176	8.66	0.32	3.6
4/13/2008	16:49:22	12.7	176	8.68	0.31	3.4
4/13/2008	17:04:22	12.8	175	8.71	0.30	3.4
4/13/2008	17:19:22	12.9	176	8.73	0.30	3.3
4/13/2008	17:34:22	13.0	176	8.74	0.26	2.9
4/13/2008	17:49:22	13.1	176	8.74	0.26	3.0

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	18:04:22	13.1	176	8.75	0.29	3.2
4/13/2008	18:19:22	13.2	175	8.75	0.29	3.3
4/13/2008	18:34:22	13.2	175	8.75	0.26	3.0
4/13/2008	18:49:22	13.2	175	8.75	0.27	3.1
4/13/2008	19:04:22	13.2	175	8.75	0.24	2.8
4/13/2008	19:19:22	13.1	175	8.75	0.27	3.1
4/13/2008	19:34:22	13.1	176	8.75	0.23	2.6
4/13/2008	19:49:22	13.1	175	8.76	0.24	2.7
4/13/2008	20:04:22	13.0	174	8.78	0.27	3.1
4/13/2008	20:19:22	12.9	174	8.79	0.23	2.6
4/13/2008	20:34:22	12.9	173	8.80	0.23	2.6
4/13/2008	20:49:22	12.8	172	8.80	0.22	2.4
4/13/2008	21:04:22	12.7	171	8.79	0.22	2.4
4/13/2008	21:19:22	12.6	170	8.79	0.23	2.6
4/13/2008	21:34:22	12.5	171	8.77	0.23	2.6
4/13/2008	21:49:22	12.4	172	8.77	0.23	2.6
4/13/2008	22:04:22	12.3	173	8.76	0.22	2.4
4/13/2008	22:19:22	12.2	173	8.76	0.19	2.1
4/13/2008	22:34:22	12.0	173	8.76	0.21	2.4
4/13/2008	22:49:22	11.9	173	8.76	0.18	2.0
4/13/2008	23:04:22	11.8	173	8.75	0.21	2.3
4/13/2008	23:19:22	11.6	173	8.75	0.22	2.4
4/13/2008	23:34:22	11.5	172	8.75	0.17	1.9
4/13/2008	23:49:22	11.3	171	8.74	0.21	2.3
4/14/2008	0:04:22	11.1	171	8.74	0.20	2.1
4/14/2008	0:19:22	11.0	169	8.73	0.19	2.0
4/14/2008	0:34:22	10.8	168	8.73	0.20	2.2
4/14/2008	0:49:22	10.7	168	8.72	0.21	2.3
4/14/2008	1:04:22	10.5	170	8.72	0.20	2.2
4/14/2008	1:19:22	10.4	170	8.71	0.18	1.9
4/14/2008	1:34:22	10.2	170	8.71	0.21	2.2
4/14/2008	1:49:22	10.0	171	8.71	0.20	2.1
4/14/2008	2:04:22	9.9	171	8.70	0.19	2.0
4/14/2008	2:19:22	9.8	171	8.70	0.19	2.0
4/14/2008	2:34:22	9.6	172	8.69	0.20	2.1
4/14/2008	2:49:22	9.5	171	8.69	0.17	1.8
4/14/2008	3:04:22	9.4	171	8.68	0.20	2.1
4/14/2008	3:19:22	9.2	170	8.68	0.22	2.3
4/14/2008	3:34:22	9.1	172	8.67	0.20	2.0
4/14/2008	3:49:22	9.0	173	8.67	0.20	2.1
4/14/2008	4:04:22	8.9	173	8.66	0.23	2.3
4/14/2008	4:19:22	8.8	173	8.65	0.22	2.2
4/14/2008	4:34:22	8.7	173	8.64	0.20	2.1
4/14/2008	4:49:22	8.6	172	8.64	0.21	2.1
4/14/2008	5:04:22	8.6	172	8.63	0.25	2.6
4/14/2008	5:19:22	8.5	173	8.62	0.25	2.5

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	5:34:22	8.4	172	8.61	0.23	2.3
4/14/2008	5:49:22	8.3	172	8.60	0.27	2.7
4/14/2008	6:04:22	8.3	171	8.60	0.26	2.6
4/14/2008	6:19:22	8.2	172	8.59	0.24	2.4
4/14/2008	6:34:22	8.2	172	8.59	0.28	2.9
4/14/2008	6:49:22	8.1	170	8.58	0.26	2.7
4/14/2008	7:04:22	8.1	170	8.58	0.28	2.8
4/14/2008	7:19:22	8.0	170	8.57	0.32	3.2
4/14/2008	7:34:22	8.0	171	8.56	0.28	2.8
4/14/2008	7:49:22	8.0	171	8.56	0.28	2.8
4/14/2008	8:04:22	8.0	171	8.56	0.33	3.3
4/14/2008	8:19:22	8.0	171	8.55	0.32	3.2
4/14/2008	8:34:22	8.0	170	8.55	0.32	3.3
4/14/2008	8:49:22	8.1	170	8.55	0.30	3.1
4/14/2008	9:04:22	8.1	171	8.55	0.35	3.5
4/14/2008	9:19:22	8.2	171	8.54	0.33	3.4
4/14/2008	9:34:22	8.3	171	8.55	0.29	3.0
4/14/2008	9:49:22	8.4	172	8.54	0.35	3.5
4/14/2008	10:04:22	8.5	172	8.54	0.30	3.0
4/14/2008	10:19:22	8.6	172	8.54	0.33	3.4
4/14/2008	10:34:22	8.7	172	8.54	0.30	3.0
4/14/2008	10:49:22	8.9	172	8.54	0.33	3.4
4/14/2008	11:04:22	9.0	172	8.54	0.31	3.2
4/14/2008	11:19:22	9.2	171	8.54	0.29	3.0
4/14/2008	11:34:22	9.3	172	8.54	0.33	3.4
4/14/2008	11:49:22	9.5	173	8.54	0.33	3.4
4/14/2008	12:04:22	9.6	173	8.54	0.34	3.5
4/14/2008	12:19:22	9.8	173	8.53	0.34	3.5
4/14/2008	12:34:22	10.0	173	8.54	0.33	3.5
4/14/2008	12:49:22	10.2	173	8.54	0.34	3.6
4/14/2008	13:04:22	10.3	174	8.54	0.31	3.3
4/14/2008	13:19:22	10.5	174	8.56	0.33	3.5
4/14/2008	13:34:22	10.7	173	8.57	0.34	3.7
4/14/2008	13:49:22	10.9	174	8.60	0.30	3.2
4/14/2008	14:04:22	11.1	175	8.64	0.33	3.6
4/14/2008	14:19:22	11.3	174	8.66	0.30	3.3
4/14/2008	14:34:22	11.5	172	8.68	0.31	3.3
4/14/2008	14:49:22	11.7	174	8.69	0.32	3.5
4/14/2008	15:04:22	11.9	175	8.70	0.31	3.4
4/14/2008	15:19:22	12.1	175	8.72	0.32	3.6
4/14/2008	15:34:22	12.2	175	8.73	0.28	3.1
4/14/2008	15:49:22	12.4	175	8.74	0.29	3.2
4/14/2008	16:04:22	12.6	175	8.76	0.29	3.2
4/14/2008	16:19:22	12.7	176	8.77	0.31	3.5
4/14/2008	16:34:22	12.9	175	8.79	0.31	3.5
4/14/2008	16:49:22	13.0	175	8.80	0.31	3.5

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	17:04:22	13.1	175	8.81	0.31	3.5
4/14/2008	17:19:22	13.2	175	8.82	0.31	3.5
4/14/2008	17:34:22	13.3	175	8.83	0.31	3.5
4/14/2008	17:49:22	13.4	175	8.84	0.33	3.8
4/14/2008	18:04:22	13.4	168	8.84	0.31	3.5
4/14/2008	18:19:22	13.5	172	8.84	0.32	3.7
4/14/2008	18:34:22	13.5	176	8.86	0.31	3.6
4/14/2008	18:49:22	13.5	176	8.87	0.33	3.8
4/14/2008	19:04:22	13.5	176	8.88	0.35	4.0
4/14/2008	19:19:22	13.5	176	8.87	0.33	3.8
4/14/2008	19:34:22	13.5	175	8.88	0.37	4.3
4/14/2008	19:49:22	13.5	175	8.89	0.43	4.9
4/14/2008	20:04:22	13.4	175	8.91	0.54	6.2
4/14/2008	20:19:22	13.4	175	8.91	0.56	6.4
4/14/2008	20:34:22	13.3	175	8.92	0.60	6.8
4/14/2008	20:49:22	13.3	174	8.92	0.65	7.4
4/14/2008	21:04:22	13.2	176	8.93	2.71	30.7
4/14/2008	21:19:22	13.1	175	8.93	4.62*	52.3
4/14/2008	21:34:22	13.1	175	8.93	4.91	55.4
4/14/2008	21:49:22	13.0	176	8.94	4.83	54.5
4/14/2008	22:04:22	12.9	176	8.93	4.73	53.2
4/14/2008	22:19:22	12.7	176	8.93	4.73	53.1
4/14/2008	22:34:22	12.6	176	8.92	4.72	52.8
4/14/2008	22:49:22	12.5	176	8.92	4.78	53.3
4/14/2008	23:04:22	12.4	176	8.92	4.79	53.3
4/14/2008	23:19:22	12.2	176	8.91	4.77	52.9
4/14/2008	23:34:22	12.1	176	8.91	4.80	53.0
4/14/2008	23:49:22	11.9	176	8.89	4.84	53.3
4/15/2008	0:04:22	11.8	176	8.89	5.04	55.2
4/15/2008	0:19:22	11.6	176	8.88	5.24	57.2
4/15/2008	0:34:22	11.4	175	8.87	5.30	57.6
4/15/2008	0:49:22	11.3	176	8.86	5.35	58.0
4/15/2008	1:04:22	11.1	176	8.85	5.35	57.7
4/15/2008	1:19:22	10.9	175	8.83	5.39	58.0
4/15/2008	1:34:22	10.8	176	8.82	5.46	58.5
4/15/2008	1:49:22	10.6	176	8.80	5.52	58.9
4/15/2008	2:04:22	10.5	175	8.79	5.57	59.3
4/15/2008	2:19:22	10.3	175	8.78	5.53	58.6
4/15/2008	2:34:22	10.1	175	8.76	5.62	59.3
4/15/2008	2:49:22	10.0	175	8.74	5.60	59.0
4/15/2008	3:04:22	9.9	174	8.72	5.60	58.7
4/15/2008	3:19:22	9.7	174	8.71	5.60	58.6
4/15/2008	3:34:22	9.6	175	8.70	5.66	59.1
4/15/2008	3:49:22	9.5	174	8.68	5.72	59.4
4/15/2008	4:04:22	9.4	174	8.67	5.75	59.7
4/15/2008	4:19:22	9.3	174	8.66	5.79	59.9

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	4:34:22	9.2	175	8.65	5.85	60.4
4/15/2008	4:49:22	9.1	175	8.64	5.86	60.3
4/15/2008	5:04:22	9.0	174	8.63	5.86	60.2
4/15/2008	5:19:22	8.9	174	8.62	5.90	60.5
4/15/2008	5:34:22	8.8	174	8.62	5.95	60.9
4/15/2008	5:49:22	8.7	174	8.61	5.98	61.0
4/15/2008	6:04:22	8.7	175	8.61	5.97	60.9
4/15/2008	6:19:22	8.6	174	8.60	5.97	60.8
4/15/2008	6:34:22	8.6	174	8.60	6.03	61.3
4/15/2008	6:49:22	8.5	175	8.60	6.03	61.3
4/15/2008	7:04:22	8.5	174	8.60	5.96	60.5
4/15/2008	7:19:22	8.4	173	8.59	5.98	60.6
4/15/2008	7:34:22	8.4	174	8.60	5.99	60.7
4/15/2008	7:49:22	8.4	174	8.59	5.99	60.6
4/15/2008	8:04:22	8.4	174	8.60	6.03	61.0
4/15/2008	8:19:22	8.4	174	8.60	6.03	61.1
4/15/2008	8:34:22	8.4	174	8.59	6.08	61.6
4/15/2008	8:49:22	8.4	174	8.59	6.14	62.3
4/15/2008	9:04:22	8.5	175	8.60	6.05	61.4
4/15/2008	9:19:22	8.6	174	8.59	6.01	61.1
4/15/2008	9:34:22	8.7	175	8.59	6.00	61.2
4/15/2008	9:49:22	8.7	174	8.60	6.01	61.4
4/15/2008	10:04:22	8.9	175	8.60	5.94	60.9
4/15/2008	10:19:22	9.0	175	8.60	5.95	61.1
4/15/2008	10:34:22	9.1	175	8.60	6.03	62.1
4/15/2008	10:49:22	9.2	174	8.60	6.02	62.3
4/15/2008	11:04:22	9.4	175	8.60	5.84	60.6
4/15/2008	11:19:22	9.5	175	8.61	5.38	56.0
4/15/2008	11:34:22	9.7	174	8.61	5.03	52.6
4/15/2008	11:49:22	9.8	174	8.61	4.58	48.0
4/15/2008	12:04:22	10.0	174	8.62	4.38	46.1
4/15/2008	12:19:22	10.2	175	8.62	5.42	57.3
4/15/2008	12:34:22	10.3	174	8.63	5.71	60.6
4/15/2008	12:49:22	10.5	175	8.63	5.67	60.4
4/15/2008	13:04:22	10.7	176	8.64	5.22	55.9
4/15/2008	13:19:22	10.9	175	8.64	4.83	51.9
4/15/2008	13:34:22	11.1	175	8.65	4.47	48.3
4/15/2008	13:49:22	11.3	176	8.66	4.17	45.3
4/15/2008	14:04:22	11.4	176	8.66	3.94	42.9
4/15/2008	14:19:22	11.6	176	8.67	3.82	41.8
4/15/2008	14:34:22	11.8	176	8.69	3.76	41.3
4/15/2008	14:49:22	12.0	177	8.70	3.69	40.7
4/15/2008	15:04:22	12.2	176	8.71	4.17	46.1
4/15/2008	15:19:22	12.3	177	8.72	5.21	57.8
4/15/2008	15:34:22	12.5	177	8.73	5.49	61.2
4/15/2008	15:49:22	12.7	177	8.75	5.73	64.2

Table 5.64. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during January 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	16:04:22	12.8	178	8.77	5.76	64.6
4/15/2008	16:19:22	13.0	178	8.78	5.78	65.2
4/15/2008	16:34:22	13.1	177	8.80	5.79	65.4
4/15/2008	16:49:22	13.3	177	8.81	5.72	64.8
4/15/2008	17:04:22	13.4	177	8.83	5.65	64.2
4/15/2008	17:19:22	13.5	176	8.84	5.61	63.9

Power loss from 041508 173208 on

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Athena**
Log	**File**	**Name**	**:**	**site2_4-8-08Athn**
Setup	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**13:43:20**
Starting	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**14:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**6/3/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**14:44:55**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/11/2008	14:15:00	11.3	10.31	112.2
4/11/2008	14:30:00	11.5	10.32	112.7
4/11/2008	14:45:00	11.6	10.33	113.0
4/11/2008	15:00:00	11.8	10.33	113.5
4/11/2008	15:15:00	11.8	10.30	113.4
4/11/2008	15:30:00	11.9	10.28	113.3
4/11/2008	15:45:00	12.0	10.26	113.3
4/11/2008	16:00:00	12.0	10.19	112.6
4/11/2008	16:15:00	12.0	10.16	112.3
4/11/2008	16:30:00	12.0	10.13	112.0
4/11/2008	16:45:00	12.0	10.08	111.3
4/11/2008	17:00:00	12.0	10.05	111.1
4/11/2008	17:15:00	12.0	10.01	110.7
4/11/2008	17:30:00	11.9	9.94	109.7
4/11/2008	17:45:00	11.8	9.88	108.7
4/11/2008	18:00:00	11.7	9.83	107.9
4/11/2008	18:15:00	11.7	9.75	106.8
4/11/2008	18:30:00	11.6	9.71	106.2
4/11/2008	18:45:00	11.5	9.65	105.4
4/11/2008	19:00:00	11.4	9.58	104.3
4/11/2008	19:15:00	11.3	9.52	103.3
4/11/2008	19:30:00	11.2	9.48	102.7
4/11/2008	19:45:00	11.1	9.44	102.1
4/11/2008	20:00:00	11.0	9.40	101.4
4/11/2008	20:15:00	10.9	9.36	100.8
4/11/2008	20:30:00	10.8	9.35	100.5
4/11/2008	20:45:00	10.8	9.30	99.9
4/11/2008	21:00:00	10.7	9.31	99.8
4/11/2008	21:15:00	10.7	9.27	99.3
4/11/2008	21:30:00	10.6	9.26	99.1
4/11/2008	21:45:00	10.6	9.25	98.8
4/11/2008	22:00:00	10.5	9.24	98.7
4/11/2008	22:15:00	10.5	9.21	98.3
4/11/2008	22:30:00	10.5	9.21	98.2

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/11/2008	22:45:00	10.4	9.20	98.0
4/11/2008	23:00:00	10.4	9.21	98.0
4/11/2008	23:15:00	10.4	9.19	97.8
4/11/2008	23:30:00	10.3	9.17	97.5
4/11/2008	23:45:00	10.3	9.18	97.5
4/12/2008	0:00:00	10.3	9.20	97.7
4/12/2008	0:15:00	10.3	9.19	97.5
4/12/2008	0:30:00	10.3	9.18	97.4
4/12/2008	0:45:00	10.2	9.18	97.3
4/12/2008	1:00:00	10.2	9.20	97.5
4/12/2008	1:15:00	10.2	9.20	97.3
4/12/2008	1:30:00	10.1	9.21	97.3
4/12/2008	1:45:00	10.1	9.18	96.9
4/12/2008	2:00:00	10.0	9.19	96.9
4/12/2008	2:15:00	10.0	9.18	96.7
4/12/2008	2:30:00	9.9	9.19	96.7
4/12/2008	2:45:00	9.8	9.17	96.2
4/12/2008	3:00:00	9.8	9.19	96.4
4/12/2008	3:15:00	9.7	9.22	96.6
4/12/2008	3:30:00	9.7	9.22	96.5
4/12/2008	3:45:00	9.7	9.23	96.6
4/12/2008	4:00:00	9.6	9.25	96.5
4/12/2008	4:15:00	9.5	9.28	96.7
4/12/2008	4:30:00	9.4	9.26	96.2
4/12/2008	4:45:00	9.3	9.27	96.1
4/12/2008	5:00:00	9.2	9.27	95.8
4/12/2008	5:15:00	9.1	9.29	95.9
4/12/2008	5:30:00	9.0	9.30	95.7
4/12/2008	5:45:00	8.9	9.29	95.4
4/12/2008	6:00:00	8.8	9.33	95.6
4/12/2008	6:15:00	8.7	9.36	95.6
4/12/2008	6:30:00	8.6	9.37	95.5
4/12/2008	6:45:00	8.5	9.36	95.2
4/12/2008	7:00:00	8.4	9.39	95.3
4/12/2008	7:15:00	8.4	9.43	95.5
4/12/2008	7:30:00	8.3	9.42	95.3
4/12/2008	7:45:00	8.3	9.47	95.7
4/12/2008	8:00:00	8.2	9.52	96.2
4/12/2008	8:15:00	8.2	9.58	96.7
4/12/2008	8:30:00	8.3	9.62	97.3
4/12/2008	8:45:00	8.3	9.68	97.9
4/12/2008	9:00:00	8.4	9.75	98.9
4/12/2008	9:15:00	8.5	9.81	99.7
4/12/2008	9:30:00	8.6	9.86	100.6
4/12/2008	9:45:00	8.8	9.92	101.5
4/12/2008	10:00:00	8.9	9.99	102.7

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	10:15:00	9.1	10.06	103.9
4/12/2008	10:30:00	9.4	10.12	105.0
4/12/2008	10:45:00	9.5	10.18	106.2
4/12/2008	11:00:00	9.5	10.17	106.0
4/12/2008	11:15:00	9.7	10.23	107.0
4/12/2008	11:30:00	10.0	10.31	108.8
4/12/2008	11:45:00	10.2	10.29	109.1
4/12/2008	12:00:00	10.4	10.30	109.7
4/12/2008	12:15:00	10.6	10.33	110.4
4/12/2008	12:30:00	10.8	10.37	111.3
4/12/2008	12:45:00	10.9	10.39	111.8
4/12/2008	13:00:00	11.1	10.39	112.5
4/12/2008	13:15:00	11.3	10.38	112.8
4/12/2008	13:30:00	11.5	10.46	114.3
4/12/2008	13:45:00	11.6	10.43	114.2
4/12/2008	14:00:00	11.8	10.43	114.6
4/12/2008	14:15:00	11.9	10.41	114.7
4/12/2008	14:30:00	12.1	10.44	115.4
4/12/2008	14:45:00	12.3	10.47	116.5
4/12/2008	15:00:00	12.4	10.37	115.6
4/12/2008	15:15:00	12.5	10.40	116.2
4/12/2008	15:30:00	12.6	10.33	115.5
4/12/2008	15:45:00	12.7	10.33	115.9
4/12/2008	16:00:00	12.7	10.27	115.4
4/12/2008	16:15:00	12.8	10.27	115.6
4/12/2008	16:30:00	12.8	10.18	114.6
4/12/2008	16:45:00	12.9	10.16	114.5
4/12/2008	17:00:00	12.8	10.06	113.2
4/12/2008	17:15:00	12.8	10.00	112.6
4/12/2008	17:30:00	12.8	9.94	111.7
4/12/2008	17:45:00	12.8	9.75	109.5
4/12/2008	18:00:00	12.7	9.79	109.9
4/12/2008	18:15:00	12.6	9.70	108.7
4/12/2008	18:30:00	12.5	9.63	107.7
4/12/2008	18:45:00	12.5	9.56	106.8
4/12/2008	19:00:00	12.4	9.49	105.8
4/12/2008	19:15:00	12.3	9.42	104.8
4/12/2008	19:30:00	12.3	9.37	104.1
4/12/2008	19:45:00	12.2	9.33	103.5
4/12/2008	20:00:00	12.1	9.30	102.9
4/12/2008	20:15:00	12.1	9.27	102.5
4/12/2008	20:30:00	12.0	9.24	102.1
4/12/2008	20:45:00	12.0	9.19	101.5
4/12/2008	21:00:00	11.9	9.18	101.3
4/12/2008	21:15:00	11.9	9.17	101.1
4/12/2008	21:30:00	11.9	9.16	100.8

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	21:45:00	11.9	9.13	100.5
4/12/2008	22:00:00	11.8	9.12	100.3
4/12/2008	22:15:00	11.8	9.11	100.2
4/12/2008	22:30:00	11.8	9.09	99.9
4/12/2008	22:45:00	11.7	9.07	99.6
4/12/2008	23:00:00	11.7	9.05	99.2
4/12/2008	23:15:00	11.7	9.04	99.0
4/12/2008	23:30:00	11.6	9.01	98.6
4/12/2008	23:45:00	11.6	9.02	98.6
4/13/2008	0:00:00	11.5	9.01	98.3
4/13/2008	0:15:00	11.4	8.98	97.9
4/13/2008	0:30:00	11.3	8.98	97.6
4/13/2008	0:45:00	11.3	8.85	96.1
4/13/2008	1:00:00	11.3	8.74	94.9
4/13/2008	1:15:00	11.2	8.57	93.1
4/13/2008	1:30:00	11.2	8.52	92.3
4/13/2008	1:45:00	11.1	8.69	93.9
4/13/2008	2:00:00	10.9	8.96	96.4
4/13/2008	2:15:00	10.8	8.99	96.5
4/13/2008	2:30:00	10.7	9.01	96.6
4/13/2008	2:45:00	10.6	9.06	96.9
4/13/2008	3:00:00	10.6	9.06	96.7
4/13/2008	3:15:00	10.4	9.08	96.7
4/13/2008	3:30:00	10.3	9.08	96.5
4/13/2008	3:45:00	10.2	9.08	96.3
4/13/2008	4:00:00	10.1	9.08	96.0
4/13/2008	4:15:00	10.0	9.12	96.2
4/13/2008	4:30:00	9.9	9.14	96.1
4/13/2008	4:45:00	9.8	9.16	96.0
4/13/2008	5:00:00	9.7	9.16	95.8
4/13/2008	5:15:00	9.6	9.20	96.0
4/13/2008	5:30:00	9.5	9.19	95.6
4/13/2008	5:45:00	9.3	9.24	95.8
4/13/2008	6:00:00	9.2	9.25	95.6
4/13/2008	6:15:00	9.1	9.27	95.6
4/13/2008	6:30:00	8.9	9.27	95.3
4/13/2008	6:45:00	8.8	9.28	95.2
4/13/2008	7:00:00	8.7	9.29	95.0
4/13/2008	7:15:00	8.6	9.33	95.1
4/13/2008	7:30:00	8.5	9.37	95.3
4/13/2008	7:45:00	8.5	9.46	96.1
4/13/2008	8:00:00	8.4	9.51	96.5
4/13/2008	8:15:00	8.4	9.55	96.9
4/13/2008	8:30:00	8.4	9.63	97.7
4/13/2008	8:45:00	8.5	9.69	98.4
4/13/2008	9:00:00	8.5	9.78	99.5

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	9:15:00	8.6	9.85	100.4
4/13/2008	9:30:00	8.7	9.92	101.4
4/13/2008	9:45:00	8.8	9.98	102.4
4/13/2008	10:00:00	9.0	10.05	103.3
4/13/2008	10:15:00	9.1	10.12	104.5
4/13/2008	10:30:00	9.3	10.21	105.8
4/13/2008	10:45:00	9.5	10.27	106.9
4/13/2008	11:00:00	9.7	10.34	108.2
4/13/2008	11:15:00	9.9	10.39	109.1
4/13/2008	11:30:00	10.1	10.43	110.2
4/13/2008	11:45:00	10.3	10.45	110.8
4/13/2008	12:00:00	10.5	10.49	111.8
4/13/2008	12:15:00	10.7	10.54	112.9
4/13/2008	12:30:00	10.9	10.57	113.8
4/13/2008	12:45:00	11.1	10.58	114.4
4/13/2008	13:00:00	11.3	10.65	115.8
4/13/2008	13:15:00	11.5	10.68	116.7
4/13/2008	13:30:00	11.7	10.68	117.3
4/13/2008	13:45:00	11.9	10.68	117.6
4/13/2008	14:00:00	12.1	10.69	118.2
4/13/2008	14:15:00	12.2	10.68	118.5
4/13/2008	14:30:00	12.4	10.71	119.3
4/13/2008	14:45:00	12.6	10.72	120.0
4/13/2008	15:00:00	12.7	10.70	120.0
4/13/2008	15:15:00	12.8	10.68	120.3
4/13/2008	15:30:00	12.9	10.67	120.4
4/13/2008	15:45:00	13.0	10.63	120.2
4/13/2008	16:00:00	13.1	10.61	120.1
4/13/2008	16:15:00	13.2	10.57	119.9
4/13/2008	16:30:00	13.3	10.50	119.4
4/13/2008	16:45:00	13.1	10.39	117.8
4/13/2008	17:00:00	13.2	10.31	117.0
4/13/2008	17:15:00	13.2	10.25	116.3
4/13/2008	17:30:00	13.0	10.11	114.3
4/13/2008	17:45:00	13.0	10.04	113.5
4/13/2008	18:00:00	13.0	9.94	112.2
4/13/2008	18:15:00	12.9	9.84	111.0
4/13/2008	18:30:00	12.8	9.73	109.6
4/13/2008	18:45:00	12.8	9.66	108.8
4/13/2008	19:00:00	12.8	9.58	107.7
4/13/2008	19:15:00	12.7	9.50	106.6
4/13/2008	19:30:00	12.6	9.43	105.7
4/13/2008	19:45:00	12.6	9.38	105.0
4/13/2008	20:00:00	12.6	9.33	104.3
4/13/2008	20:15:00	12.5	9.28	103.8
4/13/2008	20:30:00	12.5	9.22	103.0

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	20:45:00	12.5	9.18	102.6
4/13/2008	21:00:00	12.5	9.17	102.4
4/13/2008	21:15:00	12.5	9.14	102.0
4/13/2008	21:30:00	12.4	9.11	101.6
4/13/2008	21:45:00	12.4	9.10	101.4
4/13/2008	22:00:00	12.4	9.06	100.9
4/13/2008	22:15:00	12.4	9.05	100.7
4/13/2008	22:30:00	12.3	9.03	100.5
4/13/2008	22:45:00	12.3	8.97	99.8
4/13/2008	23:00:00	12.3	8.96	99.5
4/13/2008	23:15:00	12.3	8.90	98.9
4/13/2008	23:30:00	12.3	8.76	97.3
4/13/2008	23:45:00	12.2	8.89	98.5
4/14/2008	0:00:00	12.1	8.65	95.8
4/14/2008	0:15:00	12.1	8.71	96.5
4/14/2008	0:30:00	12.1	8.63	95.5
4/14/2008	0:45:00	12.1	8.55	94.7
4/14/2008	1:00:00	12.1	8.34	92.3
4/14/2008	1:15:00	11.9	8.78	96.7
4/14/2008	1:30:00	11.7	8.81	96.7
4/14/2008	1:45:00	11.7	8.82	96.7
4/14/2008	2:00:00	11.6	8.67	94.9
4/14/2008	2:15:00	11.5	8.57	93.6
4/14/2008	2:30:00	11.4	8.49	92.5
4/14/2008	2:45:00	11.3	8.46	92.0
4/14/2008	3:00:00	11.2	8.66	94.0
4/14/2008	3:15:00	11.2	8.59	93.3
4/14/2008	3:30:00	11.1	8.51	92.0
4/14/2008	3:45:00	11.1	8.50	91.9
4/14/2008	4:00:00	11.1	8.46	91.5
4/14/2008	4:15:00	11.1	8.33	90.1
4/14/2008	4:30:00	10.7	8.24	88.4
4/14/2008	4:45:00	10.5	8.96	95.5
4/14/2008	5:00:00	10.3	8.99	95.5
4/14/2008	5:15:00	10.2	9.01	95.5
4/14/2008	5:30:00	10.1	9.03	95.4
4/14/2008	5:45:00	10.0	9.07	95.5
4/14/2008	6:00:00	9.8	9.08	95.3
4/14/2008	6:15:00	9.7	9.09	95.1
4/14/2008	6:30:00	9.6	9.10	94.9
4/14/2008	6:45:00	9.4	9.13	94.9
4/14/2008	7:00:00	9.3	9.16	95.0
4/14/2008	7:15:00	9.2	9.20	95.2
4/14/2008	7:30:00	9.1	9.27	95.7
4/14/2008	7:45:00	9.0	9.33	96.1
4/14/2008	8:00:00	9.0	9.40	96.7

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	8:15:00	9.0	9.45	97.1
4/14/2008	8:30:00	9.0	9.51	97.8
4/14/2008	8:45:00	9.0	9.58	98.6
4/14/2008	9:00:00	9.1	9.67	99.6
4/14/2008	9:15:00	9.1	9.75	100.6
4/14/2008	9:30:00	9.2	9.83	101.7
4/14/2008	9:45:00	9.3	9.92	102.9
4/14/2008	10:00:00	9.5	10.00	104.1
4/14/2008	10:15:00	9.6	10.09	105.3
4/14/2008	10:30:00	9.8	10.17	106.6
4/14/2008	10:45:00	9.9	10.25	107.8
4/14/2008	11:00:00	10.1	10.31	108.8
4/14/2008	11:15:00	10.3	10.40	110.4
4/14/2008	11:30:00	10.4	10.41	110.9
4/14/2008	11:45:00	10.7	10.49	112.4
4/14/2008	12:00:00	10.9	10.54	113.4
4/14/2008	12:15:00	11.0	10.55	114.0
4/14/2008	12:30:00	11.3	10.63	115.4
4/14/2008	12:45:00	11.4	10.62	115.7
4/14/2008	13:00:00	11.7	10.71	117.5
4/14/2008	13:15:00	11.9	10.73	118.2
4/14/2008	13:30:00	12.1	10.74	118.8
4/14/2008	13:45:00	12.1	10.66	118.2
4/14/2008	14:00:00	12.5	10.79	120.4
4/14/2008	14:15:00	12.7	10.77	120.8
4/14/2008	14:30:00	12.7	10.71	120.3
4/14/2008	14:45:00	12.8	10.67	120.1
4/14/2008	15:00:00	12.9	10.68	120.4
4/14/2008	15:15:00	13.0	10.60	119.9
4/14/2008	15:30:00	13.2	10.65	120.9
4/14/2008	15:45:00	13.2	10.56	119.8
4/14/2008	16:00:00	13.3	10.48	119.3
4/14/2008	16:15:00	13.3	10.22	116.3
4/14/2008	16:30:00	13.4	10.23	116.6
4/14/2008	16:45:00	13.5	10.19	116.4
4/14/2008	17:00:00	13.5	10.33	118.0
4/14/2008	17:15:00	13.5	10.22	116.8
4/14/2008	17:30:00	13.4	10.12	115.5
4/14/2008	17:45:00	13.5	10.04	114.6
4/14/2008	18:00:00	13.4	9.91	112.9
4/14/2008	18:15:00	13.4	9.82	111.8
4/14/2008	18:30:00	13.3	9.72	110.7
4/14/2008	18:45:00	13.2	9.60	109.1
4/14/2008	19:00:00	13.2	9.50	107.8
4/14/2008	19:15:00	13.1	9.42	106.6
4/14/2008	19:30:00	13.1	9.35	105.9

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	19:45:00	13.0	9.28	105.0
4/14/2008	20:00:00	13.1	9.21	104.2
4/14/2008	20:15:00	13.0	9.15	103.4
4/14/2008	20:30:00	13.0	9.09	102.7
4/14/2008	20:45:00	13.0	9.05	102.2
4/14/2008	21:00:00	13.0	9.02	101.9
4/14/2008	21:15:00	13.0	8.98	101.3
4/14/2008	21:30:00	12.9	8.94	100.8
4/14/2008	21:45:00	12.9	8.91	100.5
4/14/2008	22:00:00	12.9	8.89	100.2
4/14/2008	22:15:00	12.9	8.85	99.8
4/14/2008	22:30:00	12.9	8.83	99.5
4/14/2008	22:45:00	12.9	8.83	99.4
4/14/2008	23:00:00	12.8	8.81	99.1
4/14/2008	23:15:00	12.8	8.77	98.7
4/14/2008	23:30:00	12.8	8.78	98.8
4/14/2008	23:45:00	12.8	8.78	98.7
4/15/2008	0:00:00	12.7	8.78	98.6
4/15/2008	0:15:00	12.7	8.78	98.5
4/15/2008	0:30:00	12.7	8.75	98.0
4/15/2008	0:45:00	12.6	8.77	98.3
4/15/2008	1:00:00	12.6	8.76	98.0
4/15/2008	1:15:00	12.6	8.77	98.2
4/15/2008	1:30:00	12.5	8.75	97.7
4/15/2008	1:45:00	12.4	8.74	97.5
4/15/2008	2:00:00	12.4	8.75	97.4
4/15/2008	2:15:00	12.3	8.75	97.2
4/15/2008	2:30:00	12.2	8.76	97.2
4/15/2008	2:45:00	12.1	8.74	96.7
4/15/2008	3:00:00	12.0	8.77	96.8
4/15/2008	3:15:00	11.9	8.75	96.3
4/15/2008	3:30:00	11.7	8.77	96.3
4/15/2008	3:45:00	11.6	8.78	96.2
4/15/2008	4:00:00	11.5	8.82	96.4
4/15/2008	4:15:00	11.4	8.83	96.2
4/15/2008	4:30:00	11.3	8.83	95.9
4/15/2008	4:45:00	11.2	8.85	95.9
4/15/2008	5:00:00	11.1	8.86	95.7
4/15/2008	5:15:00	10.9	8.87	95.5
4/15/2008	5:30:00	10.8	8.87	95.2
4/15/2008	5:45:00	10.6	8.76	93.7
4/15/2008	6:00:00	10.5	8.71	92.9
4/15/2008	6:15:00	10.4	8.67	92.2
4/15/2008	6:30:00	10.2	8.74	92.5
4/15/2008	6:45:00	10.1	8.82	93.1
4/15/2008	7:00:00	9.9	8.98	94.5

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	7:15:00	9.8	9.01	94.5
4/15/2008	7:30:00	9.7	9.03	94.5
4/15/2008	7:45:00	9.6	9.13	95.5
4/15/2008	8:00:00	9.6	9.21	96.2
4/15/2008	8:15:00	9.6	9.30	97.0
4/15/2008	8:30:00	9.6	9.25	96.6
4/15/2008	8:45:00	9.6	9.37	97.8
4/15/2008	9:00:00	9.7	9.52	99.5
4/15/2008	9:15:00	9.7	9.60	100.4
4/15/2008	9:30:00	9.8	9.67	101.5
4/15/2008	9:45:00	9.9	9.74	102.5
4/15/2008	10:00:00	10.1	9.84	103.9
4/15/2008	10:15:00	10.2	9.90	104.9
4/15/2008	10:30:00	10.4	9.94	105.7
4/15/2008	10:45:00	10.5	9.98	106.5
4/15/2008	11:00:00	10.7	10.06	107.9
4/15/2008	11:15:00	11.0	10.15	109.5
4/15/2008	11:30:00	11.1	10.13	109.7
4/15/2008	11:45:00	11.4	10.20	111.0
4/15/2008	12:00:00	11.5	10.20	111.4
4/15/2008	12:15:00	11.7	10.25	112.5
4/15/2008	12:30:00	11.9	10.25	112.9
4/15/2008	12:45:00	12.1	10.32	114.3
4/15/2008	13:00:00	12.4	10.31	114.8
4/15/2008	13:15:00	12.5	10.33	115.4
4/15/2008	13:30:00	12.7	10.34	116.2
4/15/2008	13:45:00	12.9	10.30	116.2
4/15/2008	14:00:00	13.1	10.34	117.1
4/15/2008	14:15:00	13.2	10.32	117.2
4/15/2008	14:30:00	13.4	10.30	117.4
4/15/2008	14:45:00	13.5	10.30	117.6
4/15/2008	15:00:00	13.6	10.22	117.0
4/15/2008	15:15:00	13.7	10.19	116.9
4/15/2008	15:30:00	13.7	10.08	115.8
4/15/2008	15:45:00	13.7	9.93	114.0
4/15/2008	16:00:00	13.7	9.77	112.1
4/15/2008	16:15:00	13.7	9.63	110.6
4/15/2008	16:30:00	13.7	9.23	106.0
4/15/2008	16:45:00	13.8	9.76	112.2
4/15/2008	17:00:00	13.9	9.86	113.7
4/15/2008	17:15:00	13.8	9.75	112.1
4/15/2008	17:30:00	13.8	9.70	111.6
4/15/2008	17:45:00	13.7	9.62	110.4
4/15/2008	18:00:00	13.6	9.51	108.8
4/15/2008	18:15:00	13.5	9.44	108.0
4/15/2008	18:30:00	13.4	9.35	106.7

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	18:45:00	13.3	9.27	105.5
4/15/2008	19:00:00	13.2	9.20	104.4
4/15/2008	19:15:00	13.2	9.12	103.4
4/15/2008	19:30:00	13.1	9.04	102.4
4/15/2008	19:45:00	13.1	8.97	101.5
4/15/2008	20:00:00	13.0	8.91	100.8
4/15/2008	20:15:00	13.0	8.90	100.5
4/15/2008	20:30:00	13.0	8.85	100.0
4/15/2008	20:45:00	13.0	8.83	99.8
4/15/2008	21:00:00	13.0	8.79	99.3
4/15/2008	21:15:00	13.0	8.78	99.1
4/15/2008	21:30:00	13.0	8.77	99.1
4/15/2008	21:45:00	13.0	8.74	98.8
4/15/2008	22:00:00	13.0	8.73	98.7
4/15/2008	22:15:00	13.0	8.71	98.4
4/15/2008	22:30:00	12.9	8.70	98.1
4/15/2008	22:45:00	12.9	8.68	97.9
4/15/2008	23:00:00	12.9	8.68	97.9
4/15/2008	23:15:00	12.9	8.66	97.6
4/15/2008	23:30:00	12.9	8.67	97.6
4/15/2008	23:45:00	12.8	8.68	97.6
4/16/2008	0:00:00	12.8	8.67	97.4
4/16/2008	0:15:00	12.7	8.61	96.7
4/16/2008	0:30:00	12.7	8.63	96.8
4/16/2008	0:45:00	12.7	8.65	97.0
4/16/2008	1:00:00	12.6	8.65	96.8
4/16/2008	1:15:00	12.6	8.68	97.1
4/16/2008	1:30:00	12.5	8.68	97.0
4/16/2008	1:45:00	12.4	8.67	96.7
4/16/2008	2:00:00	12.4	8.68	96.6
4/16/2008	2:15:00	12.3	8.66	96.2
4/16/2008	2:30:00	12.2	8.68	96.4
4/16/2008	2:45:00	12.1	8.70	96.3
4/16/2008	3:00:00	12.0	8.69	96.0
4/16/2008	3:15:00	11.9	8.68	95.7
4/16/2008	3:30:00	11.8	8.69	95.6
4/16/2008	3:45:00	11.7	8.73	95.8
4/16/2008	4:00:00	11.6	8.74	95.7
4/16/2008	4:15:00	11.5	8.75	95.5
4/16/2008	4:30:00	11.4	8.74	95.3
4/16/2008	4:45:00	11.3	8.70	94.6
4/16/2008	5:00:00	11.2	8.57	93.0
4/16/2008	5:15:00	11.1	8.68	93.8
4/16/2008	5:30:00	10.9	8.79	94.7
4/16/2008	5:45:00	10.8	8.81	94.6
4/16/2008	6:00:00	10.6	8.84	94.6

Table 5.65. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/16/2008	6:15:00	10.5	8.85	94.4
4/16/2008	6:30:00	10.4	8.89	94.5
4/16/2008	6:45:00	10.2	8.88	94.2
4/16/2008	7:00:00	10.1	8.91	94.1
4/16/2008	7:15:00	10.0	9.00	94.7
4/16/2008	7:30:00	9.9	9.05	95.2
4/16/2008	7:45:00	9.8	9.11	95.6
4/16/2008	8:00:00	9.8	9.16	96.1
4/16/2008	8:15:00	9.8	9.23	96.7
4/16/2008	8:30:00	9.8	9.29	97.4
4/16/2008	8:45:00	9.8	9.35	98.2
4/16/2008	9:00:00	9.9	9.42	99.0
4/16/2008	9:15:00	10.0	9.49	100.0
4/16/2008	9:30:00	10.0	9.56	100.9
4/16/2008	9:45:00	10.2	9.63	101.9
4/16/2008	10:00:00	10.3	9.72	103.2
4/16/2008	10:15:00	10.5	9.78	104.2
4/16/2008	10:30:00	10.6	9.85	105.4
4/16/2008	10:45:00	10.8	9.91	106.5
4/16/2008	11:00:00	11.0	9.98	107.8
4/16/2008	11:15:00	11.2	10.02	108.8
4/16/2008	11:30:00	11.4	10.06	109.6
4/16/2008	11:45:00	11.6	10.10	110.5
4/16/2008	12:00:00	11.8	10.11	111.1
4/16/2008	12:15:00	12.0	10.14	112.1
4/16/2008	12:30:00	12.2	10.13	112.4
4/16/2008	12:45:00	12.4	10.16	113.4
4/16/2008	13:00:00	12.6	10.04	112.5
4/16/2008	13:15:00	12.8	9.98	112.1
4/16/2008	13:30:00	13.0	9.86	111.4
4/16/2008	13:45:00	13.1	9.82	111.1
4/16/2008	14:00:00	13.1	9.73	110.2

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40183**	**Name**	**:**	**Marge**
Log	**File**	**Name**	**:**	**site2-4-11-08**
Setup	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**134825**
Starting	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**134756**
Stopping	**Date**	**(MMDDYY)**	**:**	**4/18/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
4/11/2008	14:17:56	11.2	255	8.45	8.30	89.9
4/11/2008	14:32:56	11.3	256	8.43	8.33	90.4
4/11/2008	14:47:56	11.5	256	8.44	8.36	91.2
4/11/2008	15:02:56	11.5	256	8.41	8.24	89.9
4/11/2008	15:17:56	11.7	256	8.42	8.24	90.3
4/11/2008	15:32:56	11.8	256	8.42	8.25	90.5
4/11/2008	15:47:56	11.8	256	8.40	8.22	90.2
4/11/2008	16:02:56	11.8	256	8.41	8.23	90.5
4/11/2008	16:17:56	11.7	256	8.38	8.12	88.9
4/11/2008	16:32:56	11.7	256	8.38	8.11	88.9
4/11/2008	16:47:56	11.7	255	8.38	8.09	88.7
4/11/2008	17:02:56	11.8	256	8.37	8.05	88.4
4/11/2008	17:17:56	11.8	255	8.37	8.03	88.2
4/11/2008	17:32:56	11.7	255	8.35	7.98	87.4
4/11/2008	17:47:56	11.6	255	8.34	7.88	86.0
4/11/2008	18:02:56	11.5	255	8.33	7.86	85.6
4/11/2008	18:17:56	11.4	255	8.32	7.77	84.5
4/11/2008	18:32:56	11.3	255	8.32	7.73	83.9
4/11/2008	18:47:56	11.2	255	8.31	7.66	83.0
4/11/2008	19:02:56	11.1	255	8.30	7.61	82.3
4/11/2008	19:17:56	11.0	255	8.29	7.62	82.2
4/11/2008	19:32:56	10.9	255	8.28	7.62	81.9
4/11/2008	19:47:56	10.8	255	8.27	7.59	81.5
4/11/2008	20:02:56	10.8	255	8.27	7.54	80.8
4/11/2008	20:17:56	10.7	255	8.27	7.53	80.5
4/11/2008	20:32:56	10.6	255	8.26	7.57	80.8
4/11/2008	20:47:56	10.5	255	8.26	7.54	80.4
4/11/2008	21:02:56	10.5	255	8.26	7.56	80.5
4/11/2008	21:17:56	10.4	255	8.26	7.55	80.3
4/11/2008	21:32:56	10.4	255	8.26	7.56	80.4
4/11/2008	21:47:56	10.4	255	8.26	7.54	80.1
4/11/2008	22:02:56	10.3	255	8.26	7.56	80.2

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/11/2008	22:17:56	10.3	255	8.26	7.51	79.6
4/11/2008	22:32:56	10.2	255	8.26	7.48	79.2
4/11/2008	22:47:56	10.2	255	8.26	7.47	79.1
4/11/2008	23:02:56	10.2	255	8.26	7.48	79.1
4/11/2008	23:17:56	10.1	255	8.27	7.46	78.8
4/11/2008	23:32:56	10.1	255	8.27	7.45	78.6
4/11/2008	23:47:56	10.1	254	8.27	7.41	78.3
4/12/2008	0:02:56	10.1	254	8.27	7.46	78.7
4/12/2008	0:17:56	10.0	254	8.27	7.43	78.3
4/12/2008	0:32:56	10.0	254	8.28	7.42	78.2
4/12/2008	0:47:56	10.0	254	8.28	7.44	78.4
4/12/2008	1:02:56	9.9	254	8.27	7.44	78.2
4/12/2008	1:17:56	9.9	254	8.29	7.46	78.4
4/12/2008	1:32:56	9.9	254	8.29	7.47	78.4
4/12/2008	1:47:56	9.8	254	8.28	7.43	77.9
4/12/2008	2:02:56	9.8	254	8.28	7.43	77.9
4/12/2008	2:17:56	9.7	254	8.28	7.45	77.9
4/12/2008	2:32:56	9.7	254	8.28	7.43	77.6
4/12/2008	2:47:56	9.6	253	8.28	7.45	77.6
4/12/2008	3:02:56	9.6	253	8.28	7.45	77.6
4/12/2008	3:17:56	9.5	253	8.28	7.43	77.3
4/12/2008	3:32:56	9.4	253	8.28	7.49	77.8
4/12/2008	3:47:56	9.4	253	8.27	7.52	78.0
4/12/2008	4:02:56	9.3	252	8.27	7.52	77.9
4/12/2008	4:17:56	9.2	252	8.27	7.56	78.1
4/12/2008	4:32:56	9.1	252	8.27	7.62	78.6
4/12/2008	4:47:56	9.0	252	8.26	7.57	77.9
4/12/2008	5:02:56	8.9	252	8.25	7.56	77.6
4/12/2008	5:17:56	8.8	252	8.24	7.57	77.5
4/12/2008	5:32:56	8.8	252	8.23	7.56	77.3
4/12/2008	5:47:56	8.7	252	8.23	7.58	77.3
4/12/2008	6:02:56	8.6	252	8.22	7.61	77.4
4/12/2008	6:17:56	8.4	252	8.22	7.68	78.0
4/12/2008	6:32:56	8.3	252	8.21	7.64	77.4
4/12/2008	6:47:56	8.2	252	8.20	7.68	77.6
4/12/2008	7:02:56	8.2	252	8.19	7.70	77.6
4/12/2008	7:17:56	8.1	251	8.19	7.68	77.3
4/12/2008	7:32:56	8.0	252	8.19	7.68	77.2
4/12/2008	7:47:56	8.0	251	8.19	7.73	77.6
4/12/2008	8:02:56	8.0	251	8.18	7.73	77.6
4/12/2008	8:17:56	8.0	251	8.19	7.77	78.0
4/12/2008	8:32:56	8.0	251	8.19	7.81	78.5
4/12/2008	8:47:56	8.1	252	8.20	7.88	79.2
4/12/2008	9:02:56	8.2	252	8.21	7.97	80.3
4/12/2008	9:17:56	8.3	252	8.21	8.01	81.0
4/12/2008	9:32:56	8.4	251	8.23	8.07	81.8

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	9:47:56	8.6	252	8.24	8.12	82.6
4/12/2008	10:02:56	8.7	252	8.24	8.14	83.2
4/12/2008	10:17:56	8.9	251	8.25	8.19	84.0
4/12/2008	10:32:56	9.2	252	8.26	8.19	84.5
4/12/2008	10:47:56	9.3	252	8.27	8.24	85.4
4/12/2008	11:02:56	9.3	252	8.29	8.27	85.6
4/12/2008	11:17:56	9.5	252	8.30	8.23	85.8
4/12/2008	11:32:56	9.9	253	8.30	8.25	86.6
4/12/2008	11:47:56	10.1	253	8.30	8.22	86.6
4/12/2008	12:02:56	10.3	253	8.30	8.22	87.2
4/12/2008	12:17:56	10.4	253	8.31	8.20	87.1
4/12/2008	12:32:56	10.5	253	8.32	8.23	87.7
4/12/2008	12:47:56	10.7	253	8.31	8.20	87.8
4/12/2008	13:02:56	10.9	253	8.31	8.20	88.2
4/12/2008	13:17:56	11.1	253	8.32	8.12	87.8
4/12/2008	13:32:56	11.3	253	8.34	8.17	88.7
4/12/2008	13:47:56	11.5	253	8.35	8.19	89.2
4/12/2008	14:02:56	11.6	253	8.35	8.25	90.2
4/12/2008	14:17:56	11.8	253	8.35	8.33	91.4
4/12/2008	14:32:56	11.9	253	8.34	8.27	91.0
4/12/2008	14:47:56	12.1	254	8.34	8.26	91.2
4/12/2008	15:02:56	12.2	254	8.35	8.23	91.2
4/12/2008	15:17:56	12.3	254	8.34	8.27	91.7
4/12/2008	15:32:56	12.4	254	8.34	8.24	91.7
4/12/2008	15:47:56	12.5	254	8.35	8.27	92.3
4/12/2008	16:02:56	12.5	254	8.34	8.23	91.9
4/12/2008	16:17:56	12.6	255	8.33	8.18	91.3
4/12/2008	16:32:56	12.6	255	8.33	8.14	91.0
4/12/2008	16:47:56	12.7	255	8.33	8.09	90.6
4/12/2008	17:02:56	12.7	255	8.32	8.07	90.4
4/12/2008	17:17:56	12.6	255	8.30	7.96	88.9
4/12/2008	17:32:56	12.6	256	8.29	7.89	88.3
4/12/2008	17:47:56	12.5	256	8.28	7.85	87.7
4/12/2008	18:02:56	12.4	255	8.27	7.83	87.2
4/12/2008	18:17:56	12.4	256	8.26	7.73	86.0
4/12/2008	18:32:56	12.3	256	8.25	7.68	85.3
4/12/2008	18:47:56	12.2	256	8.24	7.64	84.7
4/12/2008	19:02:56	12.2	256	8.23	7.59	84.0
4/12/2008	19:17:56	12.1	256	8.22	7.52	83.1
4/12/2008	19:32:56	12.0	256	8.22	7.47	82.4
4/12/2008	19:47:56	11.9	256	8.21	7.51	82.7
4/12/2008	20:02:56	11.9	255	8.21	7.49	82.4
4/12/2008	20:17:56	11.8	255	8.21	7.48	82.2
4/12/2008	20:32:56	11.8	256	8.21	7.46	81.9
4/12/2008	20:47:56	11.8	255	8.21	7.45	81.7
4/12/2008	21:02:56	11.7	255	8.21	7.42	81.3

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	21:17:56	11.7	254	8.21	7.40	81.1
4/12/2008	21:32:56	11.7	254	8.21	7.29	79.7
4/12/2008	21:47:56	11.6	254	8.21	7.26	79.4
4/12/2008	22:02:56	11.6	254	8.22	7.34	80.2
4/12/2008	22:17:56	11.6	254	8.22	7.33	80.1
4/12/2008	22:32:56	11.5	254	8.23	7.34	80.1
4/12/2008	22:47:56	11.5	254	8.23	7.33	80.0
4/12/2008	23:02:56	11.5	254	8.23	7.29	79.4
4/12/2008	23:17:56	11.4	254	8.23	7.28	79.2
4/12/2008	23:32:56	11.4	254	8.23	7.28	79.2
4/12/2008	23:47:56	11.3	254	8.23	7.01	76.2
4/13/2008	0:02:56	11.3	83	8.22	4.39	47.6
4/13/2008	0:17:56	11.2	82	8.20	5.41	58.6
4/13/2008	0:32:56	11.2	82	8.19	5.03	54.5
4/13/2008	0:47:56	11.0	82	8.18	6.02	64.9
4/13/2008	1:02:56	11.0	253	8.24	7.15	77.0
4/13/2008	1:17:56	10.9	253	8.23	7.14	76.7
4/13/2008	1:32:56	10.8	254	8.24	7.25	77.8
4/13/2008	1:47:56	10.7	253	8.25	7.31	78.3
4/13/2008	2:02:56	10.6	253	8.24	7.25	77.4
4/13/2008	2:17:56	10.6	253	8.25	7.35	78.4
4/13/2008	2:32:56	10.5	253	8.24	7.35	78.2
4/13/2008	2:47:56	10.4	252	8.24	7.33	77.9
4/13/2008	3:02:56	10.3	252	8.24	7.35	77.9
4/13/2008	3:17:56	10.2	252	8.24	7.36	77.8
4/13/2008	3:32:56	10.1	251	8.23	7.36	77.7
4/13/2008	3:47:56	10.0	252	8.23	7.36	77.4
4/13/2008	4:02:56	9.9	251	8.23	7.44	78.1
4/13/2008	4:17:56	9.8	251	8.23	7.50	78.5
4/13/2008	4:32:56	9.7	251	8.23	7.46	77.9
4/13/2008	4:47:56	9.5	251	8.23	7.50	78.1
4/13/2008	5:02:56	9.4	251	8.22	7.53	78.2
4/13/2008	5:17:56	9.3	251	8.21	7.54	78.1
4/13/2008	5:32:56	9.2	250	8.20	7.54	77.9
4/13/2008	5:47:56	9.1	250	8.20	7.53	77.6
4/13/2008	6:02:56	8.9	250	8.20	7.53	77.3
4/13/2008	6:17:56	8.8	250	8.19	7.54	77.2
4/13/2008	6:32:56	8.7	250	8.18	7.56	77.1
4/13/2008	6:47:56	8.6	250	8.17	7.58	77.1
4/13/2008	7:02:56	8.4	250	8.16	7.63	77.4
4/13/2008	7:17:56	8.3	251	8.16	7.64	77.3
4/13/2008	7:32:56	8.3	250	8.16	7.65	77.3
4/13/2008	7:47:56	8.2	250	8.16	7.76	78.3
4/13/2008	8:02:56	8.2	250	8.16	7.77	78.3
4/13/2008	8:17:56	8.2	249	8.17	7.78	78.4
4/13/2008	8:32:56	8.2	249	8.18	7.86	79.2

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	8:47:56	8.2	249	8.18	7.90	79.8
4/13/2008	9:02:56	8.3	249	8.19	7.96	80.5
4/13/2008	9:17:56	8.4	249	8.19	8.02	81.3
4/13/2008	9:32:56	8.5	249	8.20	8.02	81.5
4/13/2008	9:47:56	8.6	250	8.22	8.04	82.0
4/13/2008	10:02:56	8.8	249	8.23	8.12	83.0
4/13/2008	10:17:56	8.9	249	8.24	8.14	83.5
4/13/2008	10:32:56	9.1	249	8.26	8.22	84.7
4/13/2008	10:47:56	9.3	249	8.27	8.23	85.2
4/13/2008	11:02:56	9.5	249	8.28	8.23	85.6
4/13/2008	11:17:56	9.7	249	8.29	8.27	86.4
4/13/2008	11:32:56	9.9	249	8.30	8.32	87.4
4/13/2008	11:47:56	10.1	250	8.31	8.37	88.3
4/13/2008	12:02:56	10.3	250	8.33	8.43	89.4
4/13/2008	12:17:56	10.5	251	8.32	8.39	89.4
4/13/2008	12:32:56	10.7	251	8.33	8.43	90.3
4/13/2008	12:47:56	10.9	251	8.34	8.42	90.7
4/13/2008	13:02:56	11.2	251	8.35	8.44	91.3
4/13/2008	13:17:56	11.4	251	8.36	8.42	91.5
4/13/2008	13:32:56	11.5	252	8.37	8.37	91.4
4/13/2008	13:47:56	11.7	252	8.36	8.39	92.0
4/13/2008	14:02:56	11.9	252	8.37	8.39	92.4
4/13/2008	14:17:56	12.0	252	8.37	8.36	92.3
4/13/2008	14:32:56	12.2	253	8.37	8.37	92.7
4/13/2008	14:47:56	12.4	253	8.38	8.42	93.7
4/13/2008	15:02:56	12.5	253	8.38	8.41	93.8
4/13/2008	15:17:56	12.7	253	8.40	8.37	93.8
4/13/2008	15:32:56	12.8	253	8.39	8.43	94.6
4/13/2008	15:47:56	12.8	254	8.39	8.44	94.8
4/13/2008	16:02:56	12.9	254	8.38	8.40	94.5
4/13/2008	16:17:56	12.9	254	8.37	8.36	94.1
4/13/2008	16:32:56	13.0	254	8.38	8.28	93.5
4/13/2008	16:47:56	12.9	255	8.35	8.23	92.6
4/13/2008	17:02:56	12.9	254	8.34	8.18	92.1
4/13/2008	17:17:56	12.8	254	8.33	8.15	91.5
4/13/2008	17:32:56	12.9	255	8.33	8.09	91.1
4/13/2008	17:47:56	12.9	256	8.31	8.02	90.1
4/13/2008	18:02:56	12.8	255	8.29	7.95	89.3
4/13/2008	18:17:56	12.7	256	8.28	7.87	88.3
4/13/2008	18:32:56	12.6	256	8.26	7.82	87.5
4/13/2008	18:47:56	12.5	256	8.24	7.75	86.5
4/13/2008	19:02:56	12.5	256	8.23	7.64	85.3
4/13/2008	19:17:56	12.4	256	8.22	7.58	84.4
4/13/2008	19:32:56	12.4	256	8.22	7.55	84.0
4/13/2008	19:47:56	12.4	256	8.21	7.55	84.0
4/13/2008	20:02:56	12.4	256	8.20	7.49	83.3

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	20:17:56	12.3	256	8.20	7.40	82.2
4/13/2008	20:32:56	12.3	256	8.20	7.38	82.0
4/13/2008	20:47:56	12.2	255	8.20	7.37	81.7
4/13/2008	21:02:56	12.2	255	8.20	7.37	81.7
4/13/2008	21:17:56	12.2	255	8.20	7.37	81.7
4/13/2008	21:32:56	12.2	255	8.20	7.31	81.0
4/13/2008	21:47:56	12.2	255	8.20	7.32	81.0
4/13/2008	22:02:56	12.2	254	8.21	7.22	79.9
4/13/2008	22:17:56	12.1	254	8.22	7.36	81.4
4/13/2008	22:32:56	12.1	254	8.21	7.19	79.4
4/13/2008	22:47:56	12.1	254	8.21	7.19	79.3
4/13/2008	23:02:56	12.0	78	8.20	4.86	53.6
4/13/2008	23:17:56	12.0	252	8.21	6.84	75.5
4/13/2008	23:32:56	12.0	254	8.22	6.42	70.8
4/13/2008	23:47:56	11.9	85	8.20	3.61	39.7
4/14/2008	0:02:56	11.9	85	8.20	4.11	45.2
4/14/2008	0:17:56	11.9	85	8.21	4.26	46.8
4/14/2008	0:32:56	11.8	84	8.21	4.35	47.8
4/14/2008	0:47:56	11.7	100	8.21	6.46	70.8
4/14/2008	1:02:56	11.7	254	8.23	7.14	78.1
4/14/2008	1:17:56	11.6	254	8.23	7.03	76.8
4/14/2008	1:32:56	11.5	79	8.23	6.16	67.0
4/14/2008	1:47:56	11.4	253	8.22	6.99	76.1
4/14/2008	2:02:56	11.4	253	8.23	7.02	76.3
4/14/2008	2:17:56	11.3	253	8.24	6.80	73.8
4/14/2008	2:32:56	11.2	253	8.23	7.10	76.8
4/14/2008	2:47:56	11.1	82	8.23	6.84	73.8
4/14/2008	3:02:56	11.0	83	8.21	4.26	45.9
4/14/2008	3:17:56	10.9	83	8.19	5.95	63.9
4/14/2008	3:32:56	10.8	82	8.21	5.45	58.4
4/14/2008	3:47:56	10.7	82	8.20	6.74	72.0
4/14/2008	4:02:56	10.6	250	8.21	6.96	74.3
4/14/2008	4:17:56	10.4	252	8.20	7.28	77.5
4/14/2008	4:32:56	10.3	252	8.21	7.25	76.9
4/14/2008	4:47:56	10.2	252	8.19	7.35	77.7
4/14/2008	5:02:56	10.1	252	8.19	7.36	77.6
4/14/2008	5:17:56	9.9	251	8.19	7.39	77.7
4/14/2008	5:32:56	9.8	251	8.19	7.40	77.5
4/14/2008	5:47:56	9.7	251	8.18	7.40	77.3
4/14/2008	6:02:56	9.6	251	8.18	7.42	77.3
4/14/2008	6:17:56	9.4	251	8.17	7.35	76.3
4/14/2008	6:32:56	9.3	251	8.17	7.44	77.0
4/14/2008	6:47:56	9.2	251	8.16	7.48	77.2
4/14/2008	7:02:56	9.1	251	8.15	7.43	76.5
4/14/2008	7:17:56	9.0	251	8.15	7.40	76.0
4/14/2008	7:32:56	8.9	251	8.15	7.52	77.1

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	7:47:56	8.8	250	8.16	7.57	77.4
4/14/2008	8:02:56	8.7	251	8.16	7.64	78.1
4/14/2008	8:17:56	8.7	250	8.16	7.69	78.5
4/14/2008	8:32:56	8.7	250	8.17	7.74	79.0
4/14/2008	8:47:56	8.8	250	8.17	7.71	78.8
4/14/2008	9:02:56	8.8	250	8.19	7.78	79.7
4/14/2008	9:17:56	8.9	250	8.20	7.81	80.1
4/14/2008	9:32:56	9.0	249	8.21	7.85	80.7
4/14/2008	9:47:56	9.1	250	8.22	7.90	81.4
4/14/2008	10:02:56	9.2	249	8.23	8.03	83.0
4/14/2008	10:17:56	9.4	250	8.25	7.94	82.4
4/14/2008	10:32:56	9.5	250	8.26	8.09	84.2
4/14/2008	10:47:56	9.7	249	8.28	8.27	86.6
4/14/2008	11:02:56	9.9	250	8.29	8.36	87.8
4/14/2008	11:17:56	10.0	251	8.29	8.35	88.0
4/14/2008	11:32:56	10.2	251	8.30	8.40	89.0
4/14/2008	11:47:56	10.4	251	8.31	8.43	89.7
4/14/2008	12:02:56	10.7	251	8.33	8.49	90.8
4/14/2008	12:17:56	10.9	251	8.35	8.47	91.1
4/14/2008	12:32:56	11.1	252	8.35	8.44	91.1
4/14/2008	12:47:56	11.2	252	8.35	8.43	91.3
4/14/2008	13:02:56	11.5	252	8.37	8.47	92.4
4/14/2008	13:17:56	11.7	252	8.38	8.57	93.9
4/14/2008	13:32:56	11.8	252	8.37	8.50	93.4
4/14/2008	13:47:56	12.0	253	8.38	8.51	93.9
4/14/2008	14:02:56	12.2	253	8.39	8.49	94.1
4/14/2008	14:17:56	12.3	253	8.39	8.60	95.5
4/14/2008	14:32:56	12.5	253	8.39	8.56	95.4
4/14/2008	14:47:56	12.6	253	8.38	8.45	94.5
4/14/2008	15:02:56	12.8	253	8.40	8.44	94.9
4/14/2008	15:17:56	13.0	253	8.41	8.45	95.2
4/14/2008	15:32:56	13.0	253	8.39	8.30	93.6
4/14/2008	15:47:56	13.0	253	8.37	8.27	93.3
4/14/2008	16:02:56	13.1	254	8.37	8.29	93.6
4/14/2008	16:17:56	13.1	254	8.36	8.27	93.5
4/14/2008	16:32:56	13.2	254	8.36	8.27	93.7
4/14/2008	16:47:56	13.3	255	8.37	8.30	94.1
4/14/2008	17:02:56	13.3	254	8.37	8.26	93.8
4/14/2008	17:17:56	13.3	254	8.35	8.15	92.5
4/14/2008	17:32:56	13.3	254	8.34	8.10	92.0
4/14/2008	17:47:56	13.2	255	8.32	8.02	90.9
4/14/2008	18:02:56	13.2	254	8.31	7.90	89.5
4/14/2008	18:17:56	13.1	255	8.30	7.79	88.1
4/14/2008	18:32:56	13.1	255	8.28	7.75	87.6
4/14/2008	18:47:56	13.0	255	8.26	7.67	86.6
4/14/2008	19:02:56	13.0	255	8.24	7.61	85.8

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	19:17:56	12.9	255	8.23	7.57	85.1
4/14/2008	19:32:56	12.9	255	8.22	7.52	84.6
4/14/2008	19:47:56	12.8	255	8.21	7.47	83.9
4/14/2008	20:02:56	12.8	255	8.21	7.41	83.2
4/14/2008	20:17:56	12.8	256	8.21	7.38	82.9
4/14/2008	20:32:56	12.8	255	8.20	7.30	81.9
4/14/2008	20:47:56	12.8	256	8.20	7.23	81.1
4/14/2008	21:02:56	12.8	256	8.20	7.24	81.2
4/14/2008	21:17:56	12.7	256	8.20	7.30	81.9
4/14/2008	21:32:56	12.7	256	8.20	7.21	80.8
4/14/2008	21:47:56	12.7	255	8.20	7.24	81.1
4/14/2008	22:02:56	12.7	255	8.20	7.22	80.9
4/14/2008	22:17:56	12.7	256	8.20	7.14	79.9
4/14/2008	22:32:56	12.6	256	8.20	7.14	79.9
4/14/2008	22:47:56	12.6	255	8.20	7.11	79.5
4/14/2008	23:02:56	12.6	255	8.21	7.09	79.3
4/14/2008	23:17:56	12.6	255	8.21	7.07	79.0
4/14/2008	23:32:56	12.6	256	8.21	7.06	78.8
4/14/2008	23:47:56	12.5	256	8.22	7.09	79.2
4/15/2008	0:02:56	12.5	256	8.23	7.06	78.8
4/15/2008	0:17:56	12.5	255	8.23	7.03	78.4
4/15/2008	0:32:56	12.4	255	8.22	6.95	77.4
4/15/2008	0:47:56	12.4	255	8.23	7.00	77.9
4/15/2008	1:02:56	12.4	255	8.23	6.98	77.6
4/15/2008	1:17:56	12.3	255	8.24	6.93	77.0
4/15/2008	1:32:56	12.3	255	8.24	7.07	78.4
4/15/2008	1:47:56	12.2	255	8.24	7.08	78.4
4/15/2008	2:02:56	12.1	255	8.24	7.05	77.9
4/15/2008	2:17:56	12.0	254	8.24	7.06	77.9
4/15/2008	2:32:56	11.9	254	8.24	7.02	77.2
4/15/2008	2:47:56	11.8	254	8.24	7.07	77.7
4/15/2008	3:02:56	11.7	255	8.24	6.91	75.7
4/15/2008	3:17:56	11.6	254	8.23	7.07	77.3
4/15/2008	3:32:56	11.5	254	8.23	7.01	76.4
4/15/2008	3:47:56	11.4	254	8.23	7.07	76.9
4/15/2008	4:02:56	11.3	253	8.23	7.12	77.3
4/15/2008	4:17:56	11.2	253	8.22	7.11	76.9
4/15/2008	4:32:56	11.1	253	8.22	7.12	76.9
4/15/2008	4:47:56	10.9	252	8.22	7.12	76.7
4/15/2008	5:02:56	10.8	252	8.22	7.01	75.1
4/15/2008	5:17:56	10.7	252	8.21	7.20	77.0
4/15/2008	5:32:56	10.5	252	8.20	5.90	62.9
4/15/2008	5:47:56	10.4	252	8.20	7.14	75.9
4/15/2008	6:02:56	10.2	253	8.19	7.26	76.9
4/15/2008	6:17:56	10.1	252	8.19	7.27	76.7
4/15/2008	6:32:56	9.9	251	8.19	7.30	76.8

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	6:47:56	9.8	251	8.18	7.31	76.6
4/15/2008	7:02:56	9.7	252	8.17	7.38	77.1
4/15/2008	7:17:56	9.6	251	8.17	7.32	76.3
4/15/2008	7:32:56	9.5	251	8.17	6.76	70.3
4/15/2008	7:47:56	9.4	86	8.16	4.16	43.1
4/15/2008	8:02:56	9.4	210	8.17	6.16	63.8
4/15/2008	8:17:56	9.3	248	8.17	7.48	77.6
4/15/2008	8:32:56	9.3	251	8.18	7.61	78.9
4/15/2008	8:47:56	9.4	251	8.19	7.69	79.8
4/15/2008	9:02:56	9.4	251	8.19	7.68	79.8
4/15/2008	9:17:56	9.5	251	8.20	7.64	79.5
4/15/2008	9:32:56	9.6	252	8.21	7.74	80.7
4/15/2008	9:47:56	9.7	252	8.22	7.92	82.9
4/15/2008	10:02:56	9.9	252	8.23	7.91	83.0
4/15/2008	10:17:56	10.0	252	8.24	7.97	84.0
4/15/2008	10:32:56	10.2	252	8.24	7.98	84.3
4/15/2008	10:47:56	10.3	253	8.26	8.00	84.9
4/15/2008	11:02:56	10.5	253	8.27	8.09	86.2
4/15/2008	11:17:56	10.8	254	8.28	8.11	87.0
4/15/2008	11:32:56	11.0	254	8.30	8.17	88.0
4/15/2008	11:47:56	11.2	254	8.29	8.16	88.3
4/15/2008	12:02:56	11.3	254	8.29	8.15	88.4
4/15/2008	12:17:56	11.6	255	8.30	8.19	89.4
4/15/2008	12:32:56	11.7	255	8.31	8.21	90.0
4/15/2008	12:47:56	12.0	255	8.34	8.22	90.8
4/15/2008	13:02:56	12.2	255	8.32	8.18	90.5
4/15/2008	13:17:56	12.4	254	8.33	8.17	90.8
4/15/2008	13:32:56	12.5	256	8.33	8.14	90.9
4/15/2008	13:47:56	12.7	256	8.34	8.09	90.7
4/15/2008	14:02:56	12.9	256	8.34	8.09	91.0
4/15/2008	14:17:56	13.0	255	8.33	7.99	90.1
4/15/2008	14:32:56	13.1	256	8.34	7.82	88.4
4/15/2008	14:47:56	13.3	256	8.35	7.02	79.7
4/15/2008	15:02:56	13.4	80	8.30	3.63	41.2
4/15/2008	15:17:56	13.4	77	8.29	2.76	31.4
4/15/2008	15:32:56	13.4	77	8.27	4.19	47.7
4/15/2008	15:47:56	13.5	77	8.27	3.85	43.9
4/15/2008	16:02:56	13.6	163	8.30	5.79	66.2
4/15/2008	16:17:56	13.7	247	8.33	6.99	80.1
4/15/2008	16:32:56	13.7	257	8.32	7.93	90.9
4/15/2008	16:47:56	13.8	257	8.33	7.92	90.9
4/15/2008	17:02:56	13.7	256	8.30	7.92	90.7
4/15/2008	17:17:56	13.6	256	8.29	7.83	89.5
4/15/2008	17:32:56	13.5	257	8.27	7.74	88.3
4/15/2008	17:47:56	13.4	257	8.27	7.64	87.0
4/15/2008	18:02:56	13.4	257	8.25	7.56	85.9

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	18:17:56	13.3	256	8.24	7.37	83.7
4/15/2008	18:32:56	13.2	256	8.23	7.36	83.3
4/15/2008	18:47:56	13.1	256	8.22	7.35	83.0
4/15/2008	19:02:56	13.0	257	8.21	7.23	81.6
4/15/2008	19:17:56	13.0	257	8.20	7.29	82.1
4/15/2008	19:32:56	12.9	257	8.19	7.25	81.5
4/15/2008	19:47:56	12.8	257	8.18	7.18	80.6
4/15/2008	20:02:56	12.8	257	8.18	7.20	80.8
4/15/2008	20:17:56	12.8	257	8.17	7.16	80.4
4/15/2008	20:32:56	12.8	257	8.17	7.14	80.2
4/15/2008	20:47:56	12.8	256	8.17	7.08	79.4
4/15/2008	21:02:56	12.8	257	8.17	7.01	78.6
4/15/2008	21:17:56	12.8	256	8.18	7.04	78.9
4/15/2008	21:32:56	12.8	256	8.18	7.00	78.5
4/15/2008	21:47:56	12.8	256	8.18	6.83	76.7
4/15/2008	22:02:56	12.8	107	8.19	5.45	61.1
4/15/2008	22:17:56	12.7	256	8.19	6.85	76.8
4/15/2008	22:32:56	12.7	256	8.19	6.99	78.3
4/15/2008	22:47:56	12.7	256	8.19	6.95	77.8
4/15/2008	23:02:56	12.7	256	8.21	7.02	78.6
4/15/2008	23:17:56	12.6	256	8.21	6.98	78.1
4/15/2008	23:32:56	12.6	256	8.21	6.97	78.0
4/15/2008	23:47:56	12.6	256	8.22	6.92	77.3
4/16/2008	0:02:56	12.6	255	8.23	6.94	77.5
4/16/2008	0:17:56	12.5	256	8.22	6.90	76.9
4/16/2008	0:32:56	12.5	256	8.23	6.97	77.6
4/16/2008	0:47:56	12.4	256	8.23	6.93	77.2
4/16/2008	1:02:56	12.4	256	8.23	6.94	77.2
4/16/2008	1:17:56	12.3	256	8.25	6.98	77.5
4/16/2008	1:32:56	12.3	256	8.25	7.03	77.9
4/16/2008	1:47:56	12.2	256	8.25	6.99	77.4
4/16/2008	2:02:56	12.1	256	8.25	6.91	76.4
4/16/2008	2:17:56	12.0	256	8.25	6.99	77.2
4/16/2008	2:32:56	12.0	256	8.26	6.98	76.9
4/16/2008	2:47:56	11.9	256	8.26	6.97	76.7
4/16/2008	3:02:56	11.8	256	8.25	6.93	76.0
4/16/2008	3:17:56	11.7	256	8.25	6.96	76.2
4/16/2008	3:32:56	11.6	255	8.25	6.93	75.7
4/16/2008	3:47:56	11.5	255	8.25	6.17	67.2
4/16/2008	4:02:56	11.4	254	8.25	6.94	75.5
4/16/2008	4:17:56	11.3	255	8.25	6.99	75.8
4/16/2008	4:32:56	11.2	82	8.21	5.40	58.4
4/16/2008	4:47:56	11.0	250	8.23	6.68	72.1
4/16/2008	5:02:56	10.9	255	8.22	7.12	76.6
4/16/2008	5:17:56	10.8	255	8.21	7.14	76.6
4/16/2008	5:32:56	10.7	255	8.21	7.16	76.6

Table 5.66. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/16/2008	5:47:56	10.5	255	8.20	7.18	76.6
4/16/2008	6:02:56	10.4	254	8.20	7.21	76.6
4/16/2008	6:17:56	10.2	254	8.19	7.17	75.9
4/16/2008	6:32:56	10.1	254	8.19	7.21	76.1
4/16/2008	6:47:56	10.0	254	8.18	7.20	75.7
4/16/2008	7:02:56	9.8	254	8.18	7.23	75.9
4/16/2008	7:17:56	9.7	253	8.18	7.22	75.5
4/16/2008	7:32:56	9.6	253	8.18	7.20	75.2
4/16/2008	7:47:56	9.6	254	8.18	7.28	76.0
4/16/2008	8:02:56	9.5	253	8.18	7.41	77.2
4/16/2008	8:17:56	9.5	254	8.18	7.47	77.8
4/16/2008	8:32:56	9.6	254	8.18	7.53	78.5
4/16/2008	8:47:56	9.6	254	8.19	7.54	78.7
4/16/2008	9:02:56	9.7	254	8.19	7.64	79.8
4/16/2008	9:17:56	9.8	254	8.20	7.68	80.4
4/16/2008	9:32:56	9.9	254	8.21	7.59	79.6
4/16/2008	9:47:56	10.0	254	8.22	7.86	82.7
4/16/2008	10:02:56	10.1	254	8.24	7.87	83.1
4/16/2008	10:17:56	10.3	255	8.25	7.93	84.0
4/16/2008	10:32:56	10.5	255	8.26	8.00	85.1
4/16/2008	10:47:56	10.6	255	8.27	7.94	84.9
4/16/2008	11:02:56	10.8	256	8.29	7.87	84.5
4/16/2008	11:17:56	11.1	256	8.31	7.27	78.5
4/16/2008	11:32:56	11.2	257	8.30	7.39	80.0
4/16/2008	11:47:56	11.4	256	8.30	7.90	85.8
4/16/2008	12:02:56	11.6	257	8.32	7.79	85.1
4/16/2008	12:17:56	11.8	99	8.32	4.46	49.0
4/16/2008	12:32:56	11.9	88	8.28	4.76	52.4
4/16/2008	12:47:56	12.0	88	8.26	4.07	44.8
4/16/2008	13:02:56	12.0	88	8.24	3.95	43.6
4/16/2008	13:17:56	12.1	89	8.22	3.68	40.6
4/16/2008	13:32:56	12.2	89	8.25	3.03	33.5
4/16/2008	13:47:56	12.3	88	8.21	3.27	36.3
4/16/2008	14:02:56	12.4	88	8.20	3.38	37.7

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45473**	**Name**	**:**	**Nike**
Log	**File**	**Name**	**:**	**site3_4-11-2008N**
Setup	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**8:46:02**
Starting	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**9:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**6/3/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**14:59:34**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/11/2008	10:30:00	10.4	9.25	98.0
4/11/2008	10:45:00	10.6	9.26	98.5
4/11/2008	11:00:00	10.6	9.24	98.2
4/11/2008	11:15:00	10.8	9.24	98.9
4/11/2008	11:30:00	11.0	9.24	99.2
4/11/2008	11:45:00	11.1	9.24	99.6
4/11/2008	12:00:00	11.3	9.25	100.2
4/11/2008	12:15:00	11.4	9.23	100.1
4/11/2008	12:30:00	11.7	9.25	100.9
4/11/2008	12:45:00	11.7	9.23	100.8
4/11/2008	13:00:00	11.8	9.22	100.8
4/11/2008	13:15:00	11.8	9.23	101.0
4/11/2008	13:30:00	11.9	9.22	101.0
4/11/2008	13:45:00	12.0	9.21	101.2
4/11/2008	14:00:00	11.9	9.19	100.8
4/11/2008	14:15:00	12.1	9.20	101.2
4/11/2008	14:30:00	12.0	9.19	101.1
4/11/2008	14:45:00	12.1	9.18	101.1
4/11/2008	15:00:00	12.0	9.16	100.7
4/11/2008	15:15:00	12.0	9.15	100.5
4/11/2008	15:30:00	11.9	9.14	100.3
4/11/2008	15:45:00	12.0	9.12	100.2
4/11/2008	16:00:00	12.0	9.11	100.0
4/11/2008	16:15:00	11.8	9.08	99.5
4/11/2008	16:30:00	11.8	9.06	99.0
4/11/2008	16:45:00	11.6	9.03	98.4
4/11/2008	17:00:00	11.5	9.01	98.0
4/11/2008	17:15:00	11.4	8.99	97.4
4/11/2008	17:30:00	11.3	8.96	96.8
4/11/2008	17:45:00	11.1	8.93	96.2
4/11/2008	18:00:00	11.0	8.91	95.7
4/11/2008	18:15:00	10.9	8.88	95.2
4/11/2008	18:30:00	10.8	8.87	94.8
4/11/2008	18:45:00	10.7	8.84	94.3
4/11/2008	19:00:00	10.6	8.84	94.0

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/11/2008	19:15:00	10.5	8.84	93.8
4/11/2008	19:30:00	10.4	8.83	93.6
4/11/2008	19:45:00	10.3	8.84	93.4
4/11/2008	20:00:00	10.2	8.84	93.2
4/11/2008	20:15:00	10.1	8.85	93.1
4/11/2008	20:30:00	10.1	8.85	93.0
4/11/2008	20:45:00	10.0	8.85	92.9
4/11/2008	21:00:00	9.9	8.86	92.8
4/11/2008	21:15:00	9.9	8.86	92.8
4/11/2008	21:30:00	9.8	8.87	92.7
4/11/2008	21:45:00	9.8	8.86	92.6
4/11/2008	22:00:00	9.8	8.87	92.5
4/11/2008	22:15:00	9.7	8.87	92.5
4/11/2008	22:30:00	9.7	8.88	92.4
4/11/2008	22:45:00	9.6	8.87	92.2
4/11/2008	23:00:00	9.5	8.88	92.1
4/11/2008	23:15:00	9.4	8.88	92.0
4/11/2008	23:30:00	9.4	8.89	92.0
4/11/2008	23:45:00	9.4	8.91	92.0
4/12/2008	0:00:00	9.3	8.91	91.9
4/12/2008	0:15:00	9.2	8.92	91.8
4/12/2008	0:30:00	9.1	8.92	91.7
4/12/2008	0:45:00	9.1	8.94	91.7
4/12/2008	1:00:00	9.0	8.95	91.7
4/12/2008	1:15:00	9.0	8.96	91.7
4/12/2008	1:30:00	8.9	8.97	91.7
4/12/2008	1:45:00	8.8	8.98	91.7
4/12/2008	2:00:00	8.8	8.99	91.6
4/12/2008	2:15:00	8.7	9.01	91.6
4/12/2008	2:30:00	8.6	9.01	91.5
4/12/2008	2:45:00	8.6	9.03	91.6
4/12/2008	3:00:00	8.6	9.04	91.6
4/12/2008	3:15:00	8.5	9.05	91.5
4/12/2008	3:30:00	8.5	9.05	91.5
4/12/2008	3:45:00	8.4	9.06	91.5
4/12/2008	4:00:00	8.4	9.07	91.5
4/12/2008	4:15:00	8.3	9.08	91.5
4/12/2008	4:30:00	8.3	9.08	91.5
4/12/2008	4:45:00	8.3	9.09	91.4
4/12/2008	5:00:00	8.2	9.10	91.5
4/12/2008	5:15:00	8.2	9.10	91.5
4/12/2008	5:30:00	8.2	9.11	91.5
4/12/2008	5:45:00	8.2	9.12	91.7
4/12/2008	6:00:00	8.2	9.13	91.6
4/12/2008	6:15:00	8.2	9.15	91.8
4/12/2008	6:30:00	8.2	9.18	92.2

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	6:45:00	8.3	9.20	92.7
4/12/2008	7:00:00	8.4	9.25	93.4
4/12/2008	7:15:00	8.5	9.29	94.1
4/12/2008	7:30:00	8.7	9.31	94.7
4/12/2008	7:45:00	8.9	9.33	95.2
4/12/2008	8:00:00	9.1	9.35	95.9
4/12/2008	8:15:00	9.3	9.37	96.7
4/12/2008	8:30:00	9.5	9.37	97.2
4/12/2008	8:45:00	9.8	9.39	98.0
4/12/2008	9:00:00	10.0	9.38	98.4
4/12/2008	9:15:00	10.3	9.38	99.0
4/12/2008	9:30:00	10.6	9.41	100.2
4/12/2008	9:45:00	10.9	9.40	100.6
4/12/2008	10:00:00	11.2	9.38	101.2
4/12/2008	10:15:00	11.4	9.40	102.0
4/12/2008	10:30:00	11.7	9.40	102.7
4/12/2008	10:45:00	11.8	9.37	102.4
4/12/2008	11:00:00	11.6	9.32	101.5
4/12/2008	11:15:00	11.9	9.37	102.9
4/12/2008	11:30:00	12.3	9.37	103.6
4/12/2008	11:45:00	12.4	9.38	104.1
4/12/2008	12:00:00	12.6	9.36	104.3
4/12/2008	12:15:00	12.7	9.34	104.4
4/12/2008	12:30:00	12.7	9.34	104.3
4/12/2008	12:45:00	13.0	9.34	104.9
4/12/2008	13:00:00	13.1	9.33	105.1
4/12/2008	13:15:00	13.2	9.33	105.3
4/12/2008	13:30:00	13.3	9.31	105.4
4/12/2008	13:45:00	13.4	9.31	105.6
4/12/2008	14:00:00	13.4	9.29	105.5
4/12/2008	14:15:00	13.4	9.28	105.4
4/12/2008	14:30:00	13.4	9.25	105.0
4/12/2008	14:45:00	13.5	9.23	104.9
4/12/2008	15:00:00	13.5	9.21	104.7
4/12/2008	15:15:00	13.4	9.18	104.2
4/12/2008	15:30:00	13.4	9.16	103.9
4/12/2008	15:45:00	13.3	9.13	103.4
4/12/2008	16:00:00	13.3	9.10	102.9
4/12/2008	16:15:00	13.2	9.07	102.4
4/12/2008	16:30:00	13.1	9.03	101.7
4/12/2008	16:45:00	12.9	8.99	101.0
4/12/2008	17:00:00	12.8	8.95	100.2
4/12/2008	17:15:00	12.6	8.91	99.3
4/12/2008	17:30:00	12.5	8.88	98.7
4/12/2008	17:45:00	12.4	8.84	97.9
4/12/2008	18:00:00	12.2	8.80	97.3

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	18:15:00	12.1	8.76	96.6
4/12/2008	18:30:00	12.0	8.75	96.2
4/12/2008	18:45:00	11.9	8.72	95.8
4/12/2008	19:00:00	11.9	8.71	95.4
4/12/2008	19:15:00	11.8	8.69	95.2
4/12/2008	19:30:00	11.7	8.68	94.8
4/12/2008	19:45:00	11.7	8.67	94.7
4/12/2008	20:00:00	11.7	8.68	94.6
4/12/2008	20:15:00	11.6	8.67	94.4
4/12/2008	20:30:00	11.5	8.66	94.2
4/12/2008	20:45:00	11.5	8.67	94.2
4/12/2008	21:00:00	11.4	8.68	94.2
4/12/2008	21:15:00	11.4	8.68	94.1
4/12/2008	21:30:00	11.3	8.67	93.8
4/12/2008	21:45:00	11.3	8.69	93.9
4/12/2008	22:00:00	11.2	8.69	93.8
4/12/2008	22:15:00	11.1	8.68	93.5
4/12/2008	22:30:00	11.0	8.69	93.2
4/12/2008	22:45:00	10.9	8.71	93.3
4/12/2008	23:00:00	10.9	8.71	93.3
4/12/2008	23:15:00	10.8	8.71	93.1
4/12/2008	23:30:00	10.7	8.72	93.1
4/12/2008	23:45:00	10.7	8.72	92.9
4/13/2008	0:00:00	10.6	8.72	92.7
4/13/2008	0:15:00	10.4	8.74	92.6
4/13/2008	0:30:00	10.4	8.75	92.6
4/13/2008	0:45:00	10.3	8.76	92.7
4/13/2008	1:00:00	10.3	8.76	92.6
4/13/2008	1:15:00	10.2	8.77	92.5
4/13/2008	1:30:00	10.2	8.78	92.5
4/13/2008	1:45:00	10.1	8.79	92.4
4/13/2008	2:00:00	10.0	8.80	92.3
4/13/2008	2:15:00	9.9	8.80	92.2
4/13/2008	2:30:00	9.9	8.81	92.3
4/13/2008	2:45:00	9.9	8.81	92.1
4/13/2008	3:00:00	9.8	8.82	92.1
4/13/2008	3:15:00	9.8	8.83	92.2
4/13/2008	3:30:00	9.7	8.83	92.0
4/13/2008	3:45:00	9.7	8.83	92.0
4/13/2008	4:00:00	9.7	8.84	92.0
4/13/2008	4:15:00	9.6	8.85	92.0
4/13/2008	4:30:00	9.6	8.85	92.0
4/13/2008	4:45:00	9.6	8.85	91.9
4/13/2008	5:00:00	9.6	8.85	91.9
4/13/2008	5:15:00	9.5	8.85	91.8
4/13/2008	5:30:00	9.5	8.86	91.8

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	5:45:00	9.4	8.87	91.8
4/13/2008	6:00:00	9.4	8.88	91.9
4/13/2008	6:15:00	9.4	8.91	92.2
4/13/2008	6:30:00	9.5	8.94	92.7
4/13/2008	6:45:00	9.5	8.98	93.2
4/13/2008	7:00:00	9.6	9.04	94.0
4/13/2008	7:15:00	9.8	9.08	94.8
4/13/2008	7:30:00	10.0	9.11	95.5
4/13/2008	7:45:00	10.1	9.13	96.1
4/13/2008	8:00:00	10.4	9.17	97.1
4/13/2008	8:15:00	10.5	9.18	97.5
4/13/2008	8:30:00	10.8	9.20	98.3
4/13/2008	8:45:00	11.0	9.21	98.8
4/13/2008	9:00:00	11.2	9.23	99.6
4/13/2008	9:15:00	11.5	9.23	100.2
4/13/2008	9:30:00	11.7	9.24	100.9
4/13/2008	9:45:00	11.9	9.25	101.4
4/13/2008	10:00:00	12.2	9.25	102.1
4/13/2008	10:15:00	12.4	9.27	102.8
4/13/2008	10:30:00	12.6	9.27	103.3
4/13/2008	10:45:00	12.8	9.27	103.6
4/13/2008	11:00:00	13.0	9.27	104.3
4/13/2008	11:15:00	13.2	9.27	104.7
4/13/2008	11:30:00	13.4	9.28	105.3
4/13/2008	11:45:00	13.5	9.28	105.6
4/13/2008	12:00:00	13.7	9.27	105.8
4/13/2008	12:15:00	13.9	9.27	106.3
4/13/2008	12:30:00	13.9	9.26	106.3
4/13/2008	12:45:00	14.0	9.25	106.4
4/13/2008	13:00:00	14.2	9.25	106.8
4/13/2008	13:15:00	14.3	9.23	106.8
4/13/2008	13:30:00	14.3	9.22	106.8
4/13/2008	13:45:00	14.4	9.21	106.8
4/13/2008	14:00:00	14.4	9.21	106.9
4/13/2008	14:15:00	14.4	9.18	106.5
4/13/2008	14:30:00	14.4	9.18	106.5
4/13/2008	14:45:00	14.2	9.09	105.2
4/13/2008	15:00:00	14.4	9.14	106.1
4/13/2008	15:15:00	14.4	9.12	105.7
4/13/2008	15:30:00	14.3	9.08	105.0
4/13/2008	15:45:00	14.2	9.06	104.6
4/13/2008	16:00:00	14.1	9.01	103.7
4/13/2008	16:15:00	13.9	8.99	103.2
4/13/2008	16:30:00	13.8	8.94	102.3
4/13/2008	16:45:00	13.6	8.90	101.5
4/13/2008	17:00:00	13.5	8.86	100.7

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	17:15:00	13.3	8.83	100.0
4/13/2008	17:30:00	13.2	8.79	99.3
4/13/2008	17:45:00	13.0	8.76	98.6
4/13/2008	18:00:00	12.9	8.73	98.0
4/13/2008	18:15:00	12.9	8.70	97.5
4/13/2008	18:30:00	12.8	8.67	97.0
4/13/2008	18:45:00	12.7	8.65	96.6
4/13/2008	19:00:00	12.6	8.63	96.2
4/13/2008	19:15:00	12.5	8.61	95.9
4/13/2008	19:30:00	12.5	8.61	95.6
4/13/2008	19:45:00	12.4	8.60	95.5
4/13/2008	20:00:00	12.4	8.60	95.3
4/13/2008	20:15:00	12.3	8.60	95.1
4/13/2008	20:30:00	12.2	8.59	94.9
4/13/2008	20:45:00	12.1	8.59	94.7
4/13/2008	21:00:00	12.1	8.60	94.6
4/13/2008	21:15:00	12.0	8.60	94.5
4/13/2008	21:30:00	11.9	8.60	94.4
4/13/2008	21:45:00	11.9	8.60	94.2
4/13/2008	22:00:00	11.8	8.60	94.0
4/13/2008	22:15:00	11.7	8.60	93.9
4/13/2008	22:30:00	11.6	8.60	93.7
4/13/2008	22:45:00	11.6	8.62	93.8
4/13/2008	23:00:00	11.5	8.62	93.7
4/13/2008	23:15:00	11.4	8.63	93.6
4/13/2008	23:30:00	11.3	8.64	93.5
4/13/2008	23:45:00	11.2	8.64	93.4
4/14/2008	0:00:00	11.2	8.65	93.3
4/14/2008	0:15:00	11.1	8.66	93.2
4/14/2008	0:30:00	11.0	8.67	93.1
4/14/2008	0:45:00	10.9	8.67	92.9
4/14/2008	1:00:00	10.8	8.68	92.9
4/14/2008	1:15:00	10.8	8.68	92.7
4/14/2008	1:30:00	10.7	8.69	92.6
4/14/2008	1:45:00	10.6	8.70	92.6
4/14/2008	2:00:00	10.6	8.70	92.5
4/14/2008	2:15:00	10.5	8.71	92.5
4/14/2008	2:30:00	10.5	8.71	92.4
4/14/2008	2:45:00	10.4	8.72	92.4
4/14/2008	3:00:00	10.4	8.72	92.3
4/14/2008	3:15:00	10.3	8.73	92.3
4/14/2008	3:30:00	10.3	8.73	92.3
4/14/2008	3:45:00	10.3	8.74	92.2
4/14/2008	4:00:00	10.2	8.74	92.2
4/14/2008	4:15:00	10.2	8.74	92.2
4/14/2008	4:30:00	10.2	8.74	92.1

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	4:45:00	10.1	8.74	92.0
4/14/2008	5:00:00	10.1	8.74	92.0
4/14/2008	5:15:00	10.1	8.74	92.0
4/14/2008	5:30:00	10.1	8.74	91.9
4/14/2008	5:45:00	10.1	8.75	91.9
4/14/2008	6:00:00	10.0	8.77	92.1
4/14/2008	6:15:00	10.0	8.78	92.2
4/14/2008	6:30:00	10.1	8.81	92.7
4/14/2008	6:45:00	10.2	8.87	93.4
4/14/2008	7:00:00	10.3	8.91	94.1
4/14/2008	7:15:00	10.4	8.96	95.0
4/14/2008	7:30:00	10.6	8.99	95.7
4/14/2008	7:45:00	10.8	9.02	96.5
4/14/2008	8:00:00	11.0	9.00	96.8
4/14/2008	8:15:00	11.3	9.00	97.3
4/14/2008	8:30:00	11.5	9.00	97.9
4/14/2008	8:45:00	11.8	9.02	98.6
4/14/2008	9:00:00	12.0	9.04	99.5
4/14/2008	9:15:00	12.3	9.05	100.1
4/14/2008	9:30:00	12.5	9.05	100.6
4/14/2008	9:45:00	12.7	9.06	101.1
4/14/2008	10:00:00	12.9	9.07	101.8
4/14/2008	10:15:00	13.1	9.08	102.4
4/14/2008	10:30:00	13.3	9.07	102.8
4/14/2008	10:45:00	13.5	9.07	103.2
4/14/2008	11:00:00	13.7	9.08	103.8
4/14/2008	11:15:00	13.8	9.07	104.0
4/14/2008	11:30:00	14.1	9.08	104.6
4/14/2008	11:45:00	14.2	9.09	105.0
4/14/2008	12:00:00	14.4	9.09	105.4
4/14/2008	12:15:00	14.5	9.10	105.8
4/14/2008	12:30:00	14.6	9.07	105.7
4/14/2008	12:45:00	14.8	9.07	106.1
4/14/2008	13:00:00	14.9	9.07	106.3
4/14/2008	13:15:00	14.9	9.05	106.1
4/14/2008	13:30:00	15.0	9.06	106.6
4/14/2008	13:45:00	15.0	9.02	106.1
4/14/2008	14:00:00	15.0	9.01	106.0
4/14/2008	14:15:00	15.1	9.00	106.0
4/14/2008	14:30:00	15.0	8.98	105.7
4/14/2008	14:45:00	15.0	8.96	105.2
4/14/2008	15:00:00	14.9	8.94	104.8
4/14/2008	15:15:00	14.9	8.92	104.6
4/14/2008	15:30:00	14.8	8.89	104.1
4/14/2008	15:45:00	14.7	8.87	103.7
4/14/2008	16:00:00	14.6	8.84	103.1

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	16:15:00	14.5	8.81	102.4
4/14/2008	16:30:00	14.3	8.76	101.5
4/14/2008	16:45:00	14.2	8.73	100.7
4/14/2008	17:00:00	14.0	8.70	100.0
4/14/2008	17:15:00	13.8	8.65	99.1
4/14/2008	17:30:00	13.7	8.62	98.4
4/14/2008	17:45:00	13.5	8.59	97.7
4/14/2008	18:00:00	13.4	8.56	97.1
4/14/2008	18:15:00	13.3	8.54	96.7
4/14/2008	18:30:00	13.2	8.52	96.3
4/14/2008	18:45:00	13.2	8.51	96.1
4/14/2008	19:00:00	13.1	8.49	95.7
4/14/2008	19:15:00	13.0	8.47	95.3
4/14/2008	19:30:00	13.0	8.47	95.1
4/14/2008	19:45:00	12.9	8.46	94.9
4/14/2008	20:00:00	12.8	8.46	94.8
4/14/2008	20:15:00	12.8	8.46	94.7
4/14/2008	20:30:00	12.7	8.45	94.5
4/14/2008	20:45:00	12.7	8.45	94.3
4/14/2008	21:00:00	12.6	8.45	94.3
4/14/2008	21:15:00	12.6	8.46	94.2
4/14/2008	21:30:00	12.5	8.45	94.0
4/14/2008	21:45:00	12.4	8.45	93.8
4/14/2008	22:00:00	12.4	8.45	93.7
4/14/2008	22:15:00	12.3	8.46	93.6
4/14/2008	22:30:00	12.2	8.46	93.5
4/14/2008	22:45:00	12.1	8.46	93.2
4/14/2008	23:00:00	12.1	8.48	93.3
4/14/2008	23:15:00	11.9	8.46	92.9
4/14/2008	23:30:00	11.9	8.48	92.9
4/14/2008	23:45:00	11.8	8.48	92.7
4/15/2008	0:00:00	11.7	8.49	92.7
4/15/2008	0:15:00	11.6	8.49	92.6
4/15/2008	0:30:00	11.6	8.50	92.5
4/15/2008	0:45:00	11.5	8.51	92.5
4/15/2008	1:00:00	11.4	8.51	92.3
4/15/2008	1:15:00	11.3	8.52	92.2
4/15/2008	1:30:00	11.3	8.52	92.1
4/15/2008	1:45:00	11.2	8.53	92.0
4/15/2008	2:00:00	11.1	8.54	92.0
4/15/2008	2:15:00	11.0	8.54	91.8
4/15/2008	2:30:00	11.0	8.54	91.7
4/15/2008	2:45:00	10.9	8.55	91.7
4/15/2008	3:00:00	10.9	8.56	91.6
4/15/2008	3:15:00	10.8	8.56	91.5
4/15/2008	3:30:00	10.7	8.57	91.5

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	3:45:00	10.7	8.57	91.4
4/15/2008	4:00:00	10.6	8.58	91.4
4/15/2008	4:15:00	10.6	8.58	91.3
4/15/2008	4:30:00	10.6	8.58	91.2
4/15/2008	4:45:00	10.5	8.59	91.2
4/15/2008	5:00:00	10.5	8.58	91.1
4/15/2008	5:15:00	10.5	8.58	91.0
4/15/2008	5:30:00	10.4	8.58	91.0
4/15/2008	5:45:00	10.4	8.59	90.9
4/15/2008	6:00:00	10.3	8.60	90.9
4/15/2008	6:15:00	10.5	8.63	91.6
4/15/2008	6:30:00	10.4	8.65	91.6
4/15/2008	6:45:00	10.6	8.70	92.5
4/15/2008	7:00:00	10.8	8.73	93.2
4/15/2008	7:15:00	10.9	8.79	94.2
4/15/2008	7:30:00	11.2	8.82	95.1
4/15/2008	7:45:00	11.5	8.87	96.3
4/15/2008	8:00:00	11.8	8.88	97.2
4/15/2008	8:15:00	12.2	8.92	98.4
4/15/2008	8:30:00	12.5	8.93	99.4
4/15/2008	8:45:00	12.9	8.92	100.0
4/15/2008	9:00:00	13.2	8.91	100.7
4/15/2008	9:15:00	13.5	8.94	101.6
4/15/2008	9:30:00	13.9	8.94	102.5
4/15/2008	9:45:00	14.4	8.97	104.0
4/15/2008	10:00:00	14.4	8.96	103.9
4/15/2008	10:15:00	14.7	8.93	104.4
4/15/2008	10:30:00	14.9	8.90	104.3
4/15/2008	10:45:00	15.4	8.90	105.6
4/15/2008	11:00:00	15.3	8.91	105.4
4/15/2008	11:15:00	16.1	8.91	107.2
4/15/2008	11:30:00	16.2	8.84	106.7
4/15/2008	11:45:00	16.3	8.81	106.4
4/15/2008	12:00:00	16.7	8.84	107.8
4/15/2008	12:15:00	16.9	8.83	108.1
4/15/2008	12:30:00	16.9	8.88	108.6
4/15/2008	12:45:00	16.9	8.83	108.2
4/15/2008	13:00:00	17.1	8.81	108.3
4/15/2008	13:15:00	17.1	8.81	108.3
4/15/2008	13:30:00	17.2	8.82	108.6
4/15/2008	13:45:00	17.2	8.74	107.6
4/15/2008	14:00:00	17.0	8.76	107.6
4/15/2008	14:15:00	17.1	8.72	107.2
4/15/2008	14:30:00	16.9	8.67	106.1
4/15/2008	14:45:00	16.6	8.63	104.9
4/15/2008	15:00:00	16.3	8.65	104.6

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	15:15:00	16.1	8.59	103.3
4/15/2008	15:30:00	15.8	8.56	102.5
4/15/2008	15:45:00	15.7	8.43	100.6
4/15/2008	16:00:00	16.0	8.56	102.8
4/15/2008	16:15:00	15.8	8.50	101.6
4/15/2008	16:30:00	15.6	8.43	100.5
4/15/2008	16:45:00	15.4	8.39	99.4
4/15/2008	17:00:00	15.1	8.34	98.2
4/15/2008	17:15:00	14.8	8.27	96.8
4/15/2008	17:30:00	14.5	8.25	96.0
4/15/2008	17:45:00	14.3	8.21	95.2
4/15/2008	18:00:00	14.1	8.18	94.3
4/15/2008	18:15:00	13.9	8.17	93.8
4/15/2008	18:30:00	13.8	8.17	93.6
4/15/2008	18:45:00	13.7	8.17	93.3
4/15/2008	19:00:00	13.6	8.16	93.0
4/15/2008	19:15:00	13.6	8.17	93.1
4/15/2008	19:30:00	13.5	8.16	92.9
4/15/2008	19:45:00	13.4	8.16	92.7
4/15/2008	20:00:00	13.3	8.15	92.2
4/15/2008	20:15:00	13.1	8.14	91.8
4/15/2008	20:30:00	13.1	8.16	91.9
4/15/2008	20:45:00	13.1	8.19	92.4
4/15/2008	21:00:00	13.1	8.20	92.5
4/15/2008	21:15:00	12.9	8.20	92.0
4/15/2008	21:30:00	12.8	8.19	91.6
4/15/2008	21:45:00	12.6	8.20	91.5
4/15/2008	22:00:00	12.6	8.22	91.6
4/15/2008	22:15:00	12.5	8.22	91.4
4/15/2008	22:30:00	12.5	8.22	91.3
4/15/2008	22:45:00	12.4	8.22	91.3
4/15/2008	23:00:00	12.3	8.24	91.2
4/15/2008	23:15:00	12.2	8.25	91.1
4/15/2008	23:30:00	12.1	8.28	91.3
4/15/2008	23:45:00	12.0	8.29	91.1
4/16/2008	0:00:00	11.9	8.29	91.0
4/16/2008	0:15:00	11.8	8.32	91.1
4/16/2008	0:30:00	11.8	8.31	90.9
4/16/2008	0:45:00	11.9	8.34	91.4
4/16/2008	1:00:00	11.7	8.34	91.0
4/16/2008	1:15:00	11.5	8.34	90.7
4/16/2008	1:30:00	11.5	8.36	91.0
4/16/2008	1:45:00	11.4	8.36	90.6
4/16/2008	2:00:00	11.4	8.39	90.9
4/16/2008	2:15:00	11.3	8.39	90.6
4/16/2008	2:30:00	11.2	8.38	90.4

Table 5.67. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/16/2008	2:45:00	11.1	8.40	90.5
4/16/2008	3:00:00	11.0	8.41	90.3
4/16/2008	3:15:00	11.0	8.42	90.4
4/16/2008	3:30:00	10.9	8.43	90.3
4/16/2008	3:45:00	10.8	8.44	90.2
4/16/2008	4:00:00	10.7	8.46	90.3
4/16/2008	4:15:00	10.7	8.46	90.3
4/16/2008	4:30:00	10.7	8.46	90.3
4/16/2008	4:45:00	10.6	8.46	90.0
4/16/2008	5:00:00	10.6	8.46	90.0
4/16/2008	5:15:00	10.7	8.45	90.1
4/16/2008	5:30:00	10.5	8.42	89.3
4/16/2008	5:45:00	10.4	8.44	89.3
4/16/2008	6:00:00	10.5	8.50	90.2
4/16/2008	6:15:00	10.5	8.45	89.8
4/16/2008	6:30:00	10.6	8.49	90.4
4/16/2008	6:45:00	10.6	8.55	91.0
4/16/2008	7:00:00	10.7	8.64	92.1
4/16/2008	7:15:00	11.0	8.68	93.2
4/16/2008	7:30:00	11.2	8.70	93.8
4/16/2008	7:45:00	11.4	8.67	94.1
4/16/2008	8:00:00	11.7	8.66	94.6
4/16/2008	8:15:00	12.2	8.71	96.1
4/16/2008	8:30:00	12.5	8.77	97.5
4/16/2008	8:45:00	12.8	8.80	98.4
4/16/2008	9:00:00	13.2	8.82	99.6
4/16/2008	9:15:00	13.6	8.86	100.9
4/16/2008	9:30:00	13.8	8.83	101.2
4/16/2008	9:45:00	14.0	8.77	100.9
4/16/2008	10:00:00	14.2	8.80	101.7
4/16/2008	10:15:00	14.8	8.81	103.0
4/16/2008	10:30:00	14.9	8.79	103.0
4/16/2008	10:45:00	15.2	8.82	104.2
4/16/2008	11:00:00	15.6	8.80	104.8
4/16/2008	11:15:00	15.6	8.81	105.0
4/16/2008	11:30:00	15.9	8.72	104.6
4/16/2008	11:45:00	15.0	8.60	101.1
4/16/2008	12:00:00	15.1	8.57	100.9
4/16/2008	12:15:00	16.1	8.77	105.5
4/16/2008	12:30:00	16.0	8.74	105.0
4/16/2008	12:45:00	16.3	8.73	105.6
4/16/2008	13:00:00	16.7	8.73	106.4

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**Site3_4-11-08Phoebe**
Setup	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**95222**
Starting	**Date**	**(MMDDYY)**	**:**	**4/11/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**95140**
Stopping	**Date**	**(MMDDYY)**	**:**	**4/18/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
4/11/2008	10:36:40	9.5	244	7.66	9.52	98.7
4/11/2008	10:51:40	9.7	244	7.69	9.55	99.4
4/11/2008	11:06:40	9.9	245	7.70	9.60	100.3
4/11/2008	11:21:40	10.0	245	7.72	9.57	100.4
4/11/2008	11:36:40	10.3	245	7.72	9.56	100.8
4/11/2008	11:51:40	10.3	245	7.73	9.53	100.6
4/11/2008	12:06:40	10.4	245	7.74	9.50	100.6
4/11/2008	12:21:40	10.7	246	7.75	9.45	100.6
4/11/2008	12:36:40	10.8	245	7.76	9.47	101.2
4/11/2008	12:51:40	11.0	246	7.75	9.42	101.1
4/11/2008	13:06:40	11.2	245	7.76	9.47	102.1
4/11/2008	13:21:40	11.3	246	7.76	9.49	102.5
4/11/2008	13:36:40	11.5	246	7.76	9.49	103.0
4/11/2008	13:51:40	11.6	245	7.76	9.51	103.5
4/11/2008	14:06:40	11.5	245	7.76	9.45	102.5
4/11/2008	14:21:40	11.6	245	7.76	9.44	102.7
4/11/2008	14:36:40	11.7	245	7.76	9.45	102.9
4/11/2008	14:51:40	11.7	245	7.76	9.45	103.1
4/11/2008	15:06:40	11.8	246	7.77	9.44	103.2
4/11/2008	15:21:40	11.8	246	7.76	9.43	103.0
4/11/2008	15:36:40	11.9	246	7.78	9.42	103.1
4/11/2008	15:51:40	11.8	246	7.77	9.40	102.8
4/11/2008	16:06:40	11.8	246	7.77	9.41	102.7
4/11/2008	16:21:40	11.7	246	7.77	9.29	101.2
4/11/2008	16:36:40	11.7	246	7.78	9.31	101.6
4/11/2008	16:51:40	11.7	246	7.76	9.38	102.4
4/11/2008	17:06:40	11.7	246	7.77	9.31	101.4
4/11/2008	17:21:40	11.6	246	7.77	9.30	101.1
4/11/2008	17:36:40	11.4	246	7.76	9.36	101.4
4/11/2008	17:51:40	11.3	246	7.76	9.27	100.2
4/11/2008	18:06:40	11.2	246	7.76	9.19	99.1

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/11/2008	18:21:40	11.1	246	7.75	9.29	99.9
4/11/2008	18:36:40	11.0	246	7.75	9.25	99.2
4/11/2008	18:51:40	10.8	246	7.75	9.21	98.4
4/11/2008	19:06:40	10.7	246	7.74	9.19	97.9
4/11/2008	19:21:40	10.6	247	7.74	9.20	97.8
4/11/2008	19:36:40	10.5	247	7.74	9.14	97.0
4/11/2008	19:51:40	10.4	247	7.74	9.16	96.9
4/11/2008	20:06:40	10.3	247	7.74	9.11	96.1
4/11/2008	20:21:40	10.2	247	7.74	9.07	95.6
4/11/2008	20:36:40	10.1	247	7.73	9.09	95.6
4/11/2008	20:51:40	10.0	247	7.74	9.05	94.9
4/11/2008	21:06:40	9.9	247	7.73	9.10	95.3
4/11/2008	21:21:40	9.9	247	7.73	9.13	95.4
4/11/2008	21:36:40	9.8	247	7.73	9.11	95.0
4/11/2008	21:51:40	9.7	247	7.73	9.14	95.2
4/11/2008	22:06:40	9.7	247	7.73	9.14	95.1
4/11/2008	22:21:40	9.6	247	7.73	9.17	95.2
4/11/2008	22:36:40	9.6	247	7.73	9.23	95.8
4/11/2008	22:51:40	9.6	247	7.73	9.14	94.8
4/11/2008	23:06:40	9.5	247	7.73	9.20	95.3
4/11/2008	23:21:40	9.4	247	7.73	9.08	93.9
4/11/2008	23:36:40	9.4	246	7.72	9.21	95.2
4/11/2008	23:51:40	9.3	246	7.72	9.18	94.7
4/12/2008	0:06:40	9.2	246	7.72	9.17	94.4
4/12/2008	0:21:40	9.2	245	7.73	9.18	94.4
4/12/2008	0:36:40	9.1	245	7.73	9.21	94.6
4/12/2008	0:51:40	9.1	245	7.72	9.25	94.8
4/12/2008	1:06:40	9.0	245	7.73	9.20	94.2
4/12/2008	1:21:40	8.9	245	7.73	9.17	93.7
4/12/2008	1:36:40	8.9	245	7.73	9.14	93.3
4/12/2008	1:51:40	8.8	245	7.73	9.18	93.5
4/12/2008	2:06:40	8.7	245	7.73	9.22	93.8
4/12/2008	2:21:40	8.7	245	7.74	9.21	93.6
4/12/2008	2:36:40	8.6	245	7.74	9.21	93.4
4/12/2008	2:51:40	8.5	245	7.73	9.26	93.7
4/12/2008	3:06:40	8.5	245	7.73	9.27	93.7
4/12/2008	3:21:40	8.4	245	7.74	9.26	93.5
4/12/2008	3:36:40	8.4	245	7.74	9.23	93.1
4/12/2008	3:51:40	8.3	245	7.73	9.32	93.8
4/12/2008	4:06:40	8.3	245	7.74	9.33	93.8
4/12/2008	4:21:40	8.2	244	7.74	9.29	93.3
4/12/2008	4:36:40	8.2	245	7.74	9.31	93.5
4/12/2008	4:51:40	8.1	244	7.74	9.31	93.3
4/12/2008	5:06:40	8.1	245	7.74	9.31	93.2
4/12/2008	5:21:40	8.1	245	7.74	9.26	92.7

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	5:36:40	8.0	245	7.74	9.30	93.0
4/12/2008	5:51:40	8.0	245	7.74	9.37	93.6
4/12/2008	6:06:40	8.0	245	7.74	9.28	92.7
4/12/2008	6:21:40	8.0	244	7.75	9.33	93.1
4/12/2008	6:36:40	8.0	245	7.75	9.28	92.6
4/12/2008	6:51:40	7.9	245	7.74	9.25	92.3
4/12/2008	7:06:40	7.9	245	7.75	9.33	93.0
4/12/2008	7:21:40	7.9	245	7.74	9.40	93.7
4/12/2008	7:36:40	8.0	245	7.75	9.37	93.5
4/12/2008	7:51:40	8.1	245	7.77	9.40	94.1
4/12/2008	8:06:40	8.2	244	7.77	9.38	94.2
4/12/2008	8:21:40	8.4	244	7.78	9.35	94.3
4/12/2008	8:36:40	8.5	244	7.79	9.44	95.6
4/12/2008	8:51:40	8.7	244	7.79	9.40	95.5
4/12/2008	9:06:40	8.9	244	7.80	9.32	95.2
4/12/2008	9:21:40	9.2	245	7.81	9.37	96.3
4/12/2008	9:36:40	9.4	245	7.82	9.46	97.8
4/12/2008	9:51:40	9.7	245	7.83	9.36	97.3
4/12/2008	10:06:40	9.9	245	7.82	9.41	98.4
4/12/2008	10:21:40	10.2	244	7.83	9.26	97.5
4/12/2008	10:36:40	10.5	245	7.83	9.39	99.6
4/12/2008	10:51:40	10.9	245	7.84	9.36	100.1
4/12/2008	11:06:40	11.1	245	7.84	9.30	100.0
4/12/2008	11:21:40	11.3	245	7.84	9.27	100.1
4/12/2008	11:36:40	11.4	245	7.84	9.36	101.4
4/12/2008	11:51:40	11.5	245	7.85	9.25	100.4
4/12/2008	12:06:40	11.4	245	7.84	9.24	100.1
4/12/2008	12:21:40	11.9	245	7.84	9.27	101.4
4/12/2008	12:36:40	12.1	245	7.85	9.26	101.8
4/12/2008	12:51:40	12.3	245	7.86	9.20	101.6
4/12/2008	13:06:40	12.4	245	7.86	9.16	101.6
4/12/2008	13:21:40	12.6	245	7.85	9.28	103.2
4/12/2008	13:36:40	12.7	245	7.86	9.15	102.0
4/12/2008	13:51:40	12.8	246	7.85	9.26	103.5
4/12/2008	14:06:40	12.9	246	7.86	9.23	103.3
4/12/2008	14:21:40	13.0	246	7.85	9.24	103.7
4/12/2008	14:36:40	13.1	246	7.85	9.17	103.0
4/12/2008	14:51:40	13.1	245	7.86	9.10	102.4
4/12/2008	15:06:40	13.2	246	7.84	9.20	103.7
4/12/2008	15:21:40	13.2	246	7.85	9.14	103.0
4/12/2008	15:36:40	13.2	245	7.84	9.10	102.6
4/12/2008	15:51:40	13.2	246	7.84	9.05	102.0
4/12/2008	16:06:40	13.2	245	7.84	9.00	101.5
4/12/2008	16:21:40	13.2	245	7.83	8.95	100.8
4/12/2008	16:36:40	13.1	245	7.84	8.99	101.2

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/12/2008	16:51:40	13.1	245	7.82	8.96	100.8
4/12/2008	17:06:40	13.0	245	7.82	9.01	101.1
4/12/2008	17:21:40	12.9	245	7.82	8.90	99.7
4/12/2008	17:36:40	12.8	245	7.81	8.96	100.1
4/12/2008	17:51:40	12.6	245	7.81	8.88	98.8
4/12/2008	18:06:40	12.5	245	7.80	8.83	97.9
4/12/2008	18:21:40	12.3	245	7.79	8.81	97.5
4/12/2008	18:36:40	12.2	245	7.79	8.86	97.7
4/12/2008	18:51:40	12.1	245	7.78	8.76	96.3
4/12/2008	19:06:40	11.9	245	7.78	8.74	95.8
4/12/2008	19:21:40	11.8	245	7.77	8.70	95.2
4/12/2008	19:36:40	11.7	245	7.76	8.74	95.4
4/12/2008	19:51:40	11.7	245	7.76	8.74	95.1
4/12/2008	20:06:40	11.6	245	7.75	8.69	94.6
4/12/2008	20:21:40	11.6	245	7.76	8.62	93.6
4/12/2008	20:36:40	11.5	244	7.75	8.62	93.6
4/12/2008	20:51:40	11.5	244	7.76	8.63	93.5
4/12/2008	21:06:40	11.4	245	7.75	8.69	94.1
4/12/2008	21:21:40	11.4	245	7.75	8.56	92.6
4/12/2008	21:36:40	11.3	245	7.75	8.59	92.7
4/12/2008	21:51:40	11.2	245	7.75	8.65	93.3
4/12/2008	22:06:40	11.2	245	7.75	8.70	93.8
4/12/2008	22:21:40	11.1	244	7.76	8.65	93.0
4/12/2008	22:36:40	11.1	244	7.75	8.70	93.5
4/12/2008	22:51:40	11.0	245	7.75	8.66	92.9
4/12/2008	23:06:40	10.9	244	7.74	8.72	93.3
4/12/2008	23:21:40	10.8	244	7.75	8.73	93.1
4/12/2008	23:36:40	10.7	244	7.74	8.68	92.4
4/12/2008	23:51:40	10.6	244	7.75	8.66	92.2
4/13/2008	0:06:40	10.6	244	7.74	8.73	92.8
4/13/2008	0:21:40	10.5	244	7.74	8.74	92.6
4/13/2008	0:36:40	10.4	244	7.74	8.75	92.7
4/13/2008	0:51:40	10.4	245	7.74	8.72	92.2
4/13/2008	1:06:40	10.3	245	7.74	8.78	92.6
4/13/2008	1:21:40	10.2	244	7.75	8.78	92.4
4/13/2008	1:36:40	10.1	245	7.75	8.82	92.7
4/13/2008	1:51:40	10.1	245	7.74	8.77	92.1
4/13/2008	2:06:40	10.0	244	7.75	8.78	92.1
4/13/2008	2:21:40	10.0	244	7.74	8.83	92.5
4/13/2008	2:36:40	9.9	244	7.74	8.77	91.7
4/13/2008	2:51:40	9.8	244	7.74	8.89	92.8
4/13/2008	3:06:40	9.7	245	7.75	8.82	91.9
4/13/2008	3:21:40	9.7	245	7.74	8.85	92.1
4/13/2008	3:36:40	9.7	244	7.74	8.81	91.6
4/13/2008	3:51:40	9.6	244	7.74	8.85	91.8

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	4:06:40	9.5	244	7.74	8.87	92.0
4/13/2008	4:21:40	9.5	244	7.75	8.93	92.5
4/13/2008	4:36:40	9.5	244	7.74	8.86	91.7
4/13/2008	4:51:40	9.4	244	7.74	8.93	92.3
4/13/2008	5:06:40	9.4	243	7.74	8.83	91.3
4/13/2008	5:21:40	9.4	243	7.75	8.90	91.9
4/13/2008	5:36:40	9.3	243	7.75	8.92	92.0
4/13/2008	5:51:40	9.3	243	7.75	8.91	91.8
4/13/2008	6:06:40	9.3	243	7.75	8.89	91.6
4/13/2008	6:21:40	9.3	243	7.75	8.86	91.2
4/13/2008	6:36:40	9.2	243	7.75	8.95	92.0
4/13/2008	6:51:40	9.2	243	7.75	8.82	90.6
4/13/2008	7:06:40	9.2	243	7.75	8.88	91.3
4/13/2008	7:21:40	9.2	243	7.76	8.87	91.2
4/13/2008	7:36:40	9.3	243	7.76	8.98	92.5
4/13/2008	7:51:40	9.3	242	7.77	9.03	93.1
4/13/2008	8:06:40	9.4	242	7.78	9.00	93.1
4/13/2008	8:21:40	9.6	243	7.78	9.02	93.6
4/13/2008	8:36:40	9.8	243	7.81	9.02	94.1
4/13/2008	8:51:40	10.0	242	7.81	9.00	94.3
4/13/2008	9:06:40	10.2	242	7.81	9.03	95.1
4/13/2008	9:21:40	10.4	243	7.82	9.07	96.0
4/13/2008	9:36:40	10.7	242	7.82	9.11	96.9
4/13/2008	9:51:40	10.9	242	7.83	9.10	97.4
4/13/2008	10:06:40	11.1	242	7.84	8.99	96.7
4/13/2008	10:21:40	11.3	243	7.84	9.08	98.1
4/13/2008	10:36:40	11.5	242	7.84	9.03	98.1
4/13/2008	10:51:40	11.8	242	7.84	9.07	99.0
4/13/2008	11:06:40	12.0	242	7.86	9.00	98.8
4/13/2008	11:21:40	12.2	242	7.86	9.06	100.1
4/13/2008	11:36:40	12.4	242	7.87	8.93	98.9
4/13/2008	11:51:40	12.6	242	7.87	9.07	101.0
4/13/2008	12:06:40	12.8	242	7.87	8.99	100.5
4/13/2008	12:21:40	13.0	242	7.87	9.01	101.3
4/13/2008	12:36:40	13.2	242	7.87	8.98	101.3
4/13/2008	12:51:40	13.3	242	7.86	8.87	100.4
4/13/2008	13:06:40	13.5	242	7.87	9.00	102.1
4/13/2008	13:21:40	13.6	242	7.88	8.97	102.1
4/13/2008	13:36:40	13.8	242	7.88	8.94	102.0
4/13/2008	13:51:40	13.8	242	7.87	8.99	102.8
4/13/2008	14:06:40	14.0	242	7.86	8.96	102.7
4/13/2008	14:21:40	14.1	242	7.87	8.88	102.0
4/13/2008	14:36:40	14.1	242	7.87	8.95	103.0
4/13/2008	14:51:40	14.1	242	7.87	8.92	102.7
4/13/2008	15:06:40	14.2	242	7.86	8.93	102.9

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/13/2008	15:21:40	14.2	242	7.86	8.92	102.7
4/13/2008	15:36:40	14.2	242	7.86	8.90	102.5
4/13/2008	15:51:40	14.2	242	7.85	8.90	102.5
4/13/2008	16:06:40	14.1	242	7.85	8.80	101.3
4/13/2008	16:21:40	14.1	242	7.85	8.83	101.5
4/13/2008	16:36:40	14.0	242	7.83	8.86	101.7
4/13/2008	16:51:40	13.9	242	7.83	8.75	100.2
4/13/2008	17:06:40	13.8	241	7.83	8.75	99.9
4/13/2008	17:21:40	13.6	242	7.82	8.75	99.6
4/13/2008	17:36:40	13.5	242	7.82	8.71	98.7
4/13/2008	17:51:40	13.3	241	7.81	8.78	99.3
4/13/2008	18:06:40	13.2	241	7.80	8.73	98.4
4/13/2008	18:21:40	13.0	241	7.80	8.66	97.3
4/13/2008	18:36:40	12.9	241	7.79	8.59	96.2
4/13/2008	18:51:40	12.8	241	7.79	8.48	94.7
4/13/2008	19:06:40	12.7	241	7.78	8.56	95.4
4/13/2008	19:21:40	12.6	241	7.77	8.51	94.6
4/13/2008	19:36:40	12.5	241	7.77	8.50	94.3
4/13/2008	19:51:40	12.4	241	7.76	8.41	93.2
4/13/2008	20:06:40	12.4	241	7.76	8.43	93.2
4/13/2008	20:21:40	12.3	241	7.76	8.37	92.5
4/13/2008	20:36:40	12.2	241	7.75	8.42	92.9
4/13/2008	20:51:40	12.2	241	7.75	8.41	92.6
4/13/2008	21:06:40	12.1	241	7.75	8.46	93.1
4/13/2008	21:21:40	12.0	241	7.74	8.37	91.9
4/13/2008	21:36:40	12.0	241	7.74	8.39	91.9
4/13/2008	21:51:40	11.9	241	7.74	8.42	92.1
4/13/2008	22:06:40	11.8	241	7.74	8.41	91.8
4/13/2008	22:21:40	11.7	241	7.74	8.42	91.8
4/13/2008	22:36:40	11.7	242	7.74	8.43	91.9
4/13/2008	22:51:40	11.6	241	7.74	8.44	91.8
4/13/2008	23:06:40	11.5	241	7.74	8.32	90.4
4/13/2008	23:21:40	11.4	241	7.73	8.41	91.1
4/13/2008	23:36:40	11.4	242	7.73	8.46	91.6
4/13/2008	23:51:40	11.3	242	7.74	8.48	91.6
4/14/2008	0:06:40	11.2	242	7.73	8.50	91.6
4/14/2008	0:21:40	11.1	242	7.73	8.52	91.7
4/14/2008	0:36:40	11.0	242	7.74	8.48	91.1
4/14/2008	0:51:40	11.0	242	7.73	8.51	91.2
4/14/2008	1:06:40	10.9	243	7.73	8.52	91.2
4/14/2008	1:21:40	10.8	242	7.73	8.56	91.4
4/14/2008	1:36:40	10.7	242	7.73	8.54	91.1
4/14/2008	1:51:40	10.7	243	7.73	8.55	91.0
4/14/2008	2:06:40	10.6	243	7.73	8.56	91.0
4/14/2008	2:21:40	10.5	242	7.72	8.42	89.3

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	2:36:40	10.4	243	7.72	8.54	90.5
4/14/2008	2:51:40	10.4	243	7.73	8.57	90.7
4/14/2008	3:06:40	10.3	243	7.73	8.36	88.3
4/14/2008	3:21:40	10.3	243	7.72	8.35	88.1
4/14/2008	3:36:40	10.2	243	7.73	8.58	90.4
4/14/2008	3:51:40	10.2	243	7.72	8.62	90.7
4/14/2008	4:06:40	10.1	243	7.72	8.54	89.9
4/14/2008	4:21:40	10.1	243	7.72	8.61	90.4
4/14/2008	4:36:40	10.1	243	7.72	8.67	91.0
4/14/2008	4:51:40	10.0	243	7.73	8.63	90.5
4/14/2008	5:06:40	10.0	243	7.73	8.66	90.7
4/14/2008	5:21:40	10.0	243	7.73	8.68	90.9
4/14/2008	5:36:40	9.9	243	7.73	8.66	90.6
4/14/2008	5:51:40	9.9	243	7.73	8.58	89.8
4/14/2008	6:06:40	9.9	243	7.74	8.63	90.3
4/14/2008	6:21:40	9.9	242	7.74	8.67	90.5
4/14/2008	6:36:40	9.8	242	7.74	8.61	89.8
4/14/2008	6:51:40	9.8	242	7.74	8.62	90.0
4/14/2008	7:06:40	9.8	242	7.74	8.64	90.2
4/14/2008	7:21:40	9.8	242	7.75	8.74	91.2
4/14/2008	7:36:40	9.9	242	7.75	8.71	91.0
4/14/2008	7:51:40	10.0	242	7.76	8.72	91.3
4/14/2008	8:06:40	10.1	242	7.77	8.72	91.6
4/14/2008	8:21:40	10.3	242	7.79	8.78	92.6
4/14/2008	8:36:40	10.4	242	7.79	8.83	93.5
4/14/2008	8:51:40	10.7	242	7.80	8.87	94.4
4/14/2008	9:06:40	10.9	242	7.79	8.76	93.7
4/14/2008	9:21:40	11.1	242	7.82	8.87	95.4
4/14/2008	9:36:40	11.4	242	7.83	8.87	96.0
4/14/2008	9:51:40	11.7	241	7.84	8.91	97.0
4/14/2008	10:06:40	11.9	242	7.85	8.80	96.4
4/14/2008	10:21:40	12.1	242	7.85	8.78	96.7
4/14/2008	10:36:40	12.3	241	7.86	8.91	98.4
4/14/2008	10:51:40	12.5	241	7.86	8.88	98.7
4/14/2008	11:06:40	12.7	240	7.86	8.85	98.8
4/14/2008	11:21:40	13.0	241	7.86	8.75	98.2
4/14/2008	11:36:40	13.2	240	7.87	8.84	99.6
4/14/2008	11:51:40	13.4	240	7.87	8.80	99.5
4/14/2008	12:06:40	13.5	240	7.88	8.84	100.4
4/14/2008	12:21:40	13.7	239	7.88	8.80	100.3
4/14/2008	12:36:40	13.8	239	7.89	8.81	100.8
4/14/2008	12:51:40	14.0	239	7.88	8.73	100.2
4/14/2008	13:06:40	14.1	239	7.88	8.73	100.5
4/14/2008	13:21:40	14.3	239	7.88	8.80	101.6
4/14/2008	13:36:40	14.4	239	7.88	8.69	100.7

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/14/2008	13:51:40	14.5	239	7.87	8.77	101.7
4/14/2008	14:06:40	14.6	238	7.87	8.70	101.2
4/14/2008	14:21:40	14.7	238	7.87	8.74	101.9
4/14/2008	14:36:40	14.8	238	7.86	8.78	102.5
4/14/2008	14:51:40	14.8	237	7.88	8.73	101.9
4/14/2008	15:06:40	14.8	235	7.88	8.69	101.5
4/14/2008	15:21:40	14.8	235	7.86	8.70	101.6
4/14/2008	15:36:40	14.7	234	7.85	8.66	101.0
4/14/2008	15:51:40	14.7	234	7.86	8.54	99.5
4/14/2008	16:06:40	14.7	233	7.86	8.66	100.8
4/14/2008	16:21:40	14.6	233	7.85	8.67	100.8
4/14/2008	16:36:40	14.6	233	7.85	8.58	99.7
4/14/2008	16:51:40	14.5	233	7.85	8.57	99.3
4/14/2008	17:06:40	14.4	233	7.84	8.57	99.1
4/14/2008	17:21:40	14.2	233	7.84	8.56	98.6
4/14/2008	17:36:40	14.0	232	7.82	8.54	98.0
4/14/2008	17:51:40	13.9	232	7.83	8.47	96.9
4/14/2008	18:06:40	13.7	232	7.81	8.51	97.0
4/14/2008	18:21:40	13.5	232	7.80	8.41	95.6
4/14/2008	18:36:40	13.4	232	7.80	8.44	95.6
4/14/2008	18:51:40	13.2	232	7.80	8.42	95.0
4/14/2008	19:06:40	13.1	232	7.79	8.40	94.6
4/14/2008	19:21:40	13.0	232	7.78	8.38	94.2
4/14/2008	19:36:40	13.0	232	7.77	8.39	94.1
4/14/2008	19:51:40	12.9	232	7.77	8.34	93.5
4/14/2008	20:06:40	12.8	233	7.76	8.36	93.5
4/14/2008	20:21:40	12.7	232	7.77	8.25	92.0
4/14/2008	20:36:40	12.7	232	7.76	8.30	92.5
4/14/2008	20:51:40	12.6	232	7.77	8.18	91.1
4/14/2008	21:06:40	12.6	233	7.76	8.30	92.3
4/14/2008	21:21:40	12.5	233	7.76	8.35	92.7
4/14/2008	21:36:40	12.5	233	7.77	8.16	90.5
4/14/2008	21:51:40	12.4	233	7.76	8.22	91.0
4/14/2008	22:06:40	12.4	233	7.76	8.23	91.1
4/14/2008	22:21:40	12.3	233	7.76	8.22	90.9
4/14/2008	22:36:40	12.2	233	7.75	8.20	90.4
4/14/2008	22:51:40	12.2	233	7.75	8.25	90.9
4/14/2008	23:06:40	12.1	233	7.75	8.29	91.2
4/14/2008	23:21:40	12.0	233	7.75	8.24	90.4
4/14/2008	23:36:40	11.9	233	7.76	8.27	90.6
4/14/2008	23:51:40	11.8	233	7.77	8.23	90.0
4/15/2008	0:06:40	11.8	233	7.75	8.23	89.8
4/15/2008	0:21:40	11.7	233	7.75	8.16	89.0
4/15/2008	0:36:40	11.6	233	7.76	8.09	88.0
4/15/2008	0:51:40	11.5	233	7.76	8.21	89.1

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	1:06:40	11.4	233	7.76	8.16	88.4
4/15/2008	1:21:40	11.4	233	7.74	8.07	87.3
4/15/2008	1:36:40	11.3	233	7.76	8.15	88.0
4/15/2008	1:51:40	11.2	233	7.76	8.09	87.3
4/15/2008	2:06:40	11.1	233	7.75	7.91	85.2
4/15/2008	2:21:40	11.1	233	7.75	7.92	85.1
4/15/2008	2:36:40	11.0	233	7.74	7.84	84.1
4/15/2008	2:51:40	10.9	233	7.75	7.96	85.2
4/15/2008	3:06:40	10.8	233	7.75	7.75	82.8
4/15/2008	3:21:40	10.7	233	7.75	7.54	80.4
4/15/2008	3:36:40	10.7	233	7.76	7.62	81.1
4/15/2008	3:51:40	10.6	233	7.75	7.65	81.4
4/15/2008	4:06:40	10.6	233	7.76	7.70	81.8
4/15/2008	4:21:40	10.5	233	7.76	7.81	82.8
4/15/2008	4:36:40	10.5	233	7.75	7.88	83.5
4/15/2008	4:51:40	10.4	233	7.75	7.81	82.7
4/15/2008	5:06:40	10.4	233	7.75	7.54	79.7
4/15/2008	5:21:40	10.3	233	7.76	7.66	80.9
4/15/2008	5:36:40	10.3	233	7.75	7.71	81.4
4/15/2008	5:51:40	10.3	233	7.76	7.59	80.1
4/15/2008	6:06:40	10.2	233	7.75	7.57	79.7
4/15/2008	6:21:40	10.2	233	7.75	7.69	80.9
4/15/2008	6:36:40	10.1	233	7.76	7.50	78.8
4/15/2008	6:51:40	10.1	233	7.75	7.49	78.6
4/15/2008	7:06:40	10.1	233	7.75	7.28	76.5
4/15/2008	7:21:40	10.1	233	7.76	7.56	79.5
4/15/2008	7:36:40	10.2	233	7.76	7.62	80.3
4/15/2008	7:51:40	10.4	233	7.78	7.51	79.4
4/15/2008	8:06:40	10.6	233	7.78	7.44	79.1
4/15/2008	8:21:40	10.8	234	7.79	7.71	82.3
4/15/2008	8:36:40	11.1	234	7.80	7.71	82.9
4/15/2008	8:51:40	11.4	234	7.81	7.63	82.6
4/15/2008	9:06:40	11.8	234	7.82	7.54	82.3
4/15/2008	9:21:40	12.2	234	7.83	7.35	81.0
4/15/2008	9:36:40	12.5	235	7.84	7.19	79.9
4/15/2008	9:51:40	12.9	235	7.84	7.26	81.3
4/15/2008	10:06:40	13.2	235	7.85	7.07	79.7
4/15/2008	10:21:40	13.6	236	7.85	7.08	80.6
4/15/2008	10:36:40	14.0	236	7.87	7.26	83.3
4/15/2008	10:51:40	14.3	236	7.87	7.35	84.9
4/15/2008	11:06:40	14.6	236	7.87	7.47	86.9
4/15/2008	11:21:40	14.9	237	7.88	7.10	83.1
4/15/2008	11:36:40	15.3	237	7.89	7.25	85.6
4/15/2008	11:51:40	15.5	237	7.88	7.23	85.8
4/15/2008	12:06:40	15.8	237	7.89	7.40	88.2

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	12:21:40	16.0	238	7.89	7.37	88.3
4/15/2008	12:36:40	16.1	239	7.89	7.05	84.6
4/15/2008	12:51:40	16.4	238	7.88	7.37	89.1
4/15/2008	13:06:40	16.7	238	7.88	7.19	87.4
4/15/2008	13:21:40	16.8	239	7.88	7.06	86.0
4/15/2008	13:36:40	16.8	239	7.88	7.21	87.9
4/15/2008	13:51:40	16.9	239	7.88	7.21	88.0
4/15/2008	14:06:40	16.9	239	7.87	7.19	87.8
4/15/2008	14:21:40	16.9	239	7.86	7.16	87.5
4/15/2008	14:36:40	16.9	239	7.86	7.15	87.3
4/15/2008	14:51:40	16.9	239	7.86	7.11	86.9
4/15/2008	15:06:40	16.9	239	7.85	7.05	86.0
4/15/2008	15:21:40	16.9	239	7.84	7.19	87.8
4/15/2008	15:36:40	16.8	239	7.85	6.87	83.8
4/15/2008	15:51:40	16.8	239	7.83	7.03	85.5
4/15/2008	16:06:40	16.6	239	7.83	7.05	85.7
4/15/2008	16:21:40	16.4	238	7.83	7.02	84.9
4/15/2008	16:36:40	16.3	239	7.81	7.00	84.4
4/15/2008	16:51:40	16.1	239	7.82	6.97	83.7
4/15/2008	17:06:40	15.9	238	7.81	7.10	84.9
4/15/2008	17:21:40	15.6	239	7.81	6.86	81.5
4/15/2008	17:36:40	15.4	239	7.80	6.80	80.3
4/15/2008	17:51:40	15.1	238	7.79	6.61	77.6
4/15/2008	18:06:40	14.7	238	7.78	6.63	77.3
4/15/2008	18:21:40	14.5	238	7.77	6.56	76.1
4/15/2008	18:36:40	14.2	238	7.77	6.51	75.1
4/15/2008	18:51:40	14.0	238	7.76	6.47	74.2
4/15/2008	19:06:40	13.7	238	7.75	6.65	75.9
4/15/2008	19:21:40	13.6	238	7.75	6.49	73.8
4/15/2008	19:36:40	13.5	237	7.74	6.55	74.4
4/15/2008	19:51:40	13.4	237	7.74	6.51	73.7
4/15/2008	20:06:40	13.3	238	7.73	6.56	74.1
4/15/2008	20:21:40	13.3	237	7.72	6.69	75.6
4/15/2008	20:36:40	13.2	238	7.73	6.65	74.9
4/15/2008	20:51:40	13.1	238	7.73	6.52	73.3
4/15/2008	21:06:40	12.9	238	7.72	6.51	73.0
4/15/2008	21:21:40	12.8	237	7.72	6.64	74.3
4/15/2008	21:36:40	12.8	237	7.72	6.52	72.9
4/15/2008	21:51:40	12.7	237	7.72	6.59	73.5
4/15/2008	22:06:40	12.6	238	7.71	6.54	72.8
4/15/2008	22:21:40	12.5	238	7.72	6.64	73.7
4/15/2008	22:36:40	12.4	237	7.72	6.69	74.1
4/15/2008	22:51:40	12.3	238	7.71	6.74	74.5
4/15/2008	23:06:40	12.3	237	7.72	6.74	74.5
4/15/2008	23:21:40	12.2	237	7.71	6.66	73.4

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/15/2008	23:36:40	12.2	237	7.71	6.41	70.6
4/15/2008	23:51:40	12.1	237	7.71	6.60	72.6
4/16/2008	0:06:40	12.0	237	7.71	6.72	73.7
4/16/2008	0:21:40	11.9	237	7.71	6.64	72.7
4/16/2008	0:36:40	11.8	238	7.72	6.58	71.9
4/16/2008	0:51:40	11.7	237	7.71	6.55	71.4
4/16/2008	1:06:40	11.6	237	7.71	6.63	72.1
4/16/2008	1:21:40	11.5	237	7.71	6.50	70.5
4/16/2008	1:36:40	11.5	237	7.71	6.51	70.6
4/16/2008	1:51:40	11.4	237	7.71	6.80	73.7
4/16/2008	2:06:40	11.3	237	7.71	6.56	71.0
4/16/2008	2:21:40	11.2	237	7.71	6.59	71.0
4/16/2008	2:36:40	11.2	237	7.71	6.56	70.6
4/16/2008	2:51:40	11.1	237	7.71	6.75	72.5
4/16/2008	3:06:40	11.0	236	7.71	6.68	71.6
4/16/2008	3:21:40	11.0	236	7.71	6.68	71.6
4/16/2008	3:36:40	10.8	236	7.71	6.90	73.7
4/16/2008	3:51:40	10.8	236	7.71	6.58	70.2
4/16/2008	4:06:40	10.7	236	7.71	6.68	71.1
4/16/2008	4:21:40	10.6	236	7.71	6.77	71.9
4/16/2008	4:36:40	10.6	236	7.70	6.80	72.2
4/16/2008	4:51:40	10.5	236	7.71	6.80	72.1
4/16/2008	5:06:40	10.5	236	7.71	6.79	72.0
4/16/2008	5:21:40	10.4	236	7.71	6.65	70.3
4/16/2008	5:36:40	10.4	236	7.71	6.91	73.0
4/16/2008	5:51:40	10.3	236	7.71	6.85	72.3
4/16/2008	6:06:40	10.2	236	7.71	6.80	71.6
4/16/2008	6:21:40	10.2	236	7.71	6.84	72.0
4/16/2008	6:36:40	10.1	236	7.71	6.70	70.5
4/16/2008	6:51:40	10.1	236	7.71	6.93	72.8
4/16/2008	7:06:40	10.2	235	7.71	6.98	73.4
4/16/2008	7:21:40	10.2	236	7.71	6.96	73.2
4/16/2008	7:36:40	10.3	235	7.72	6.92	73.0
4/16/2008	7:51:40	10.4	236	7.72	6.96	73.6
4/16/2008	8:06:40	10.6	236	7.74	7.00	74.3
4/16/2008	8:21:40	10.8	235	7.74	7.02	75.1
4/16/2008	8:36:40	11.0	236	7.75	6.83	73.4
4/16/2008	8:51:40	11.4	236	7.76	6.89	74.6
4/16/2008	9:06:40	11.8	236	7.77	6.85	74.9
4/16/2008	9:21:40	12.2	237	7.78	7.00	77.2
4/16/2008	9:36:40	12.5	237	7.79	6.92	76.9
4/16/2008	9:51:40	12.8	236	7.79	6.77	75.7
4/16/2008	10:06:40	13.2	237	7.80	6.77	76.3
4/16/2008	10:21:40	13.5	238	7.80	6.95	78.9
4/16/2008	10:36:40	13.9	238	7.81	6.94	79.5

Table 5.68. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/16/2008	10:51:40	14.2	239	7.81	6.77	78.0
4/16/2008	11:06:40	14.6	239	7.81	6.80	79.0
4/16/2008	11:21:40	14.8	239	7.82	6.83	79.8
4/16/2008	11:36:40	15.0	240	7.82	6.68	78.4
4/16/2008	11:51:40	15.3	240	7.82	6.59	77.7
4/16/2008	12:06:40	15.4	240	7.83	6.75	79.9
4/16/2008	12:21:40	15.7	240	7.83	6.68	79.4
4/16/2008	12:36:40	15.9	240	7.82	6.61	79.0
4/16/2008	12:51:40	15.9	241	7.83	6.58	78.7
4/16/2008	13:06:40	15.9	242	7.83	6.28	75.0
4/16/2008	13:21:40	16.3	241	7.83	6.60	79.5
4/16/2008	13:36:40	16.4	241	7.82	6.40	77.4
4/16/2008	13:51:40	16.5	241	7.82	6.45	78.2
4/16/2008	14:06:40	16.6	241	7.82	6.48	78.7
4/16/2008	14:21:40	16.6	241	7.82	6.30	76.5
4/16/2008	14:36:40	16.5	242	7.81	6.37	77.2
4/16/2008	14:51:40	16.6	241	7.81	6.43	78.0
4/16/2008	15:06:40	16.6	241	7.81	6.46	78.5
4/16/2008	15:21:40	16.6	241	7.80	6.49	78.7

Table 5.69. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Athena**
Log File		**Name**	**:**	**Site4_4-7-08atha**
Setup Date		**(MMDDYY)**	**:**	**4/7/2008**
Setup Time		**(HHMMSS)**	**:**	**15:24:32**
Starting Date		**(MMDDYY)**	**:**	**4/7/2008**
Starting Time		**(HHMMSS)**	**:**	**16:00:00**
Stopping Date		**(MMDDYY)**	**:**	**4/11/2008**
Stopping Time		**(HHMMSS)**	**:**	**13:42:26**
Measurement Interval		**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/7/2008	16:00:00	15.2	8.46	101.0
4/7/2008	16:15:00	15.3	8.49	101.4
4/7/2008	16:30:00	15.3	8.48	101.5
4/7/2008	16:45:00	15.3	8.48	101.4
4/7/2008	17:00:00	15.3	8.46	101.3
4/7/2008	17:15:00	15.3	8.45	101.2
4/7/2008	17:30:00	15.4	8.43	101.0
4/7/2008	17:45:00	15.4	8.42	100.9
4/7/2008	18:00:00	15.3	8.41	100.6
4/7/2008	18:15:00	15.3	8.39	100.4
4/7/2008	18:30:00	15.2	8.37	100.0
4/7/2008	18:45:00	15.1	8.36	99.7
4/7/2008	19:00:00	15.0	8.34	99.2
4/7/2008	19:15:00	15.0	8.33	98.9
4/7/2008	19:30:00	14.9	8.32	98.6
4/7/2008	19:45:00	14.8	8.30	98.3
4/7/2008	20:00:00	14.8	8.29	98.0
4/7/2008	20:15:00	14.7	8.06	95.1
4/7/2008	20:30:00	14.6	8.13	95.8
4/7/2008	20:45:00	14.6	8.15	96.1
4/7/2008	21:00:00	14.6	8.07	95.2
4/7/2008	21:15:00	14.6	7.95	93.7
4/7/2008	21:30:00	14.6	7.79	91.8
4/7/2008	21:45:00	14.6	7.61	89.8
4/7/2008	22:00:00	14.6	7.66	90.3
4/7/2008	22:15:00	14.6	7.57	89.3
4/7/2008	22:30:00	14.6	7.52	88.7
4/7/2008	22:45:00	14.6	7.50	88.4
4/7/2008	23:00:00	14.6	7.42	87.5
4/7/2008	23:15:00	14.6	7.23	85.3
4/7/2008	23:30:00	14.6	7.16	84.4
4/7/2008	23:45:00	14.6	6.75	79.6
4/8/2008	0:00:00	14.6	6.59	77.7
4/8/2008	0:15:00	14.6	6.49	76.5
4/8/2008	0:30:00	14.5	6.54	77.0

Table 5.69. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	0:45:00	14.5	6.47	76.2
4/8/2008	1:00:00	14.5	6.41	75.4
4/8/2008	1:15:00	14.5	6.39	75.1
4/8/2008	1:30:00	14.5	6.37	74.9
4/8/2008	1:45:00	14.5	6.37	74.9
4/8/2008	2:00:00	14.5	6.19	72.7
4/8/2008	2:15:00	14.5	5.75	67.6
4/8/2008	2:30:00	14.5	5.49	64.5
4/8/2008	2:45:00	13.7	5.54	63.9
4/8/2008	3:00:00	12.9	5.96	67.9
4/8/2008	3:15:00	13.0	5.83	66.3
4/8/2008	3:30:00	13.5	6.42	73.8
4/8/2008	3:45:00	13.7	6.97	80.4
4/8/2008	4:00:00	13.8	7.07	81.8
4/8/2008	4:15:00	13.8	6.97	80.8
4/8/2008	4:30:00	13.9	6.95	80.6
4/8/2008	4:45:00	13.9	6.80	79.0
4/8/2008	5:00:00	13.9	6.53	75.7
4/8/2008	5:15:00	13.9	6.61	76.6
4/8/2008	5:30:00	13.9	6.69	77.5
4/8/2008	5:45:00	13.9	6.57	76.2
4/8/2008	6:00:00	13.9	6.46	75.0
4/8/2008	6:15:00	13.9	6.47	75.0
4/8/2008	6:30:00	13.9	6.37	73.9
4/8/2008	6:45:00	13.9	6.20	71.9
4/8/2008	7:00:00	13.9	6.35	73.6
4/8/2008	7:15:00	13.9	6.35	73.7
4/8/2008	7:30:00	13.9	6.27	72.8
4/8/2008	7:45:00	13.9	6.15	71.4
4/8/2008	8:00:00	13.9	6.06	70.3
4/8/2008	8:15:00	13.9	6.03	69.9
4/8/2008	8:30:00	13.9	6.03	69.8
4/8/2008	8:45:00	13.8	5.90	68.4
4/8/2008	9:00:00	13.8	5.81	67.3
4/8/2008	9:15:00	13.8	5.80	67.1
4/8/2008	9:30:00	13.8	5.74	66.6
4/8/2008	9:45:00	13.9	5.69	65.9
4/8/2008	10:00:00	13.9	5.65	65.5
4/8/2008	10:15:00	13.8	5.53	64.1
4/8/2008	10:30:00	13.8	5.04	58.3
4/8/2008	10:45:00	13.8	4.65	53.9
4/8/2008	11:00:00	13.8	4.80	55.6
4/8/2008	11:15:00	13.8	4.54	52.5
4/8/2008	11:30:00	13.7	4.52	52.2
4/8/2008	11:45:00	13.7	4.59	53.0
4/8/2008	12:00:00	13.7	4.52	52.2

Table 5.69. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	12:15:00	13.7	4.36	50.3
4/8/2008	12:30:00	13.7	4.17	48.2*
4/8/2008	12:45:00	13.7	4.14	47.9
4/8/2008	13:00:00	13.7	4.25	49.1
4/8/2008	13:15:00	13.7	4.22	48.7
4/8/2008	13:30:00	13.7	4.20	48.4
4/8/2008	13:45:00	13.7	4.22	48.8
4/8/2008	14:00:00	13.7	4.13	47.7
4/8/2008	14:15:00	13.7	3.88	44.8
4/8/2008	14:30:00	13.7	3.65	42.2
4/8/2008	14:45:00	13.7	3.61	41.7
4/8/2008	15:00:00	13.7	3.50	40.4
4/8/2008	15:15:00	13.7	3.14	36.2
4/8/2008	15:30:00	13.6	3.27	37.7
4/8/2008	15:45:00	13.6	3.07	35.5
4/8/2008	16:00:00	13.6	2.85	32.9
4/8/2008	16:15:00	13.6	2.93	33.8
4/8/2008	16:30:00	13.6	2.66	30.6
4/8/2008	16:45:00	13.6	2.21	25.5
4/8/2008	17:00:00	13.6	2.59	29.8
4/8/2008	17:15:00	13.6	2.77	31.9
4/8/2008	17:30:00	13.6	2.80	32.2
4/8/2008	17:45:00	13.6	2.49	28.6
4/8/2008	18:00:00	13.6	2.60	30.0
4/8/2008	18:15:00	13.6	2.69	30.9
4/8/2008	18:30:00	13.6	2.48	28.5
4/8/2008	18:45:00	13.6	2.65	30.6
4/8/2008	19:00:00	13.6	2.76	31.8
4/8/2008	19:15:00	13.6	2.96	34.1
4/8/2008	19:30:00	13.5	3.03	34.9
4/8/2008	19:45:00	13.5	2.83	32.6
4/8/2008	20:00:00	13.6	2.57	29.6
4/8/2008	20:15:00	13.6	2.67	30.8
4/8/2008	20:30:00	13.6	2.69	31.0
4/8/2008	20:45:00	13.6	2.70	31.1
4/8/2008	21:00:00	13.6	2.66	30.6
4/8/2008	21:15:00	13.6	2.73	31.5
4/8/2008	21:30:00	13.6	2.75	31.7
4/8/2008	21:45:00	13.6	2.59	29.9
4/8/2008	22:00:00	13.6	2.52	29.1
4/8/2008	22:15:00	13.6	2.47	28.4
4/8/2008	22:30:00	13.6	2.47	28.4
4/8/2008	22:45:00	13.6	2.57	29.6
4/8/2008	23:00:00	13.6	2.65	30.5
4/8/2008	23:15:00	13.6	2.62	30.2
4/8/2008	23:30:00	13.6	2.58	29.7

Table 5.69. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	23:45:00	13.6	2.49	28.7
4/9/2008	0:00:00	13.6	2.37	27.4
4/9/2008	0:15:00	13.6	2.43	28.0
4/9/2008	0:30:00	13.6	2.36	27.2
4/9/2008	0:45:00	13.6	2.29	26.4
4/9/2008	1:00:00	13.6	2.30	26.5
4/9/2008	1:15:00	13.6	2.37	27.3
4/9/2008	1:30:00	13.6	2.44	28.1
4/9/2008	1:45:00	13.6	2.48	28.6
4/9/2008	2:00:00	13.6	2.53	29.2
4/9/2008	2:15:00	13.6	2.22	25.6
4/9/2008	2:30:00	13.6	2.20	25.4
4/9/2008	2:45:00	13.6	2.34	26.9
4/9/2008	3:00:00	13.6	2.34	26.9
4/9/2008	3:15:00	13.6	2.02	23.3
4/9/2008	3:30:00	13.6	1.96	22.6
4/9/2008	3:45:00	13.6	2.08	24.0
4/9/2008	4:00:00	13.6	2.13	24.5
4/9/2008	4:15:00	13.6	2.13	24.5
4/9/2008	4:30:00	13.5	2.07	23.9
4/9/2008	4:45:00	13.6	1.98	22.8
4/9/2008	5:00:00	13.5	1.88	21.7
4/9/2008	5:15:00	13.5	1.95	22.4
4/9/2008	5:30:00	13.5	2.03	23.4
4/9/2008	5:45:00	13.5	2.10	24.2
4/9/2008	6:00:00	13.5	2.11	24.2
4/9/2008	6:15:00	13.5	2.08	23.9
4/9/2008	6:30:00	13.5	2.08	23.9
4/9/2008	6:45:00	13.5	2.05	23.5
4/9/2008	7:00:00	13.4	2.09	23.9
4/9/2008	7:15:00	13.4	2.00	23.0
4/9/2008	7:30:00	13.4	1.77	20.3
4/9/2008	7:45:00	13.4	1.89	21.7
4/9/2008	8:00:00	13.4	1.90	21.8
4/9/2008	8:15:00	13.4	1.84	21.1
4/9/2008	8:30:00	13.4	1.90	21.7
4/9/2008	8:45:00	13.4	1.94	22.2
4/9/2008	9:00:00	13.4	1.95	22.4
4/9/2008	9:15:00	13.3	1.95	22.4
4/9/2008	9:30:00	13.3	1.32	15.1
4/9/2008	9:45:00	13.3	0.96	11.0
4/9/2008	10:00:00	13.2	0.99	11.3
4/9/2008	10:15:00	13.2	0.93	10.7
4/9/2008	10:30:00	13.2	0.96	11.0
4/9/2008	10:45:00	13.2	1.30	14.9
4/9/2008	11:00:00	13.1	1.49	17.0

Table 5.69. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	11:15:00	13.1	1.57	17.9
4/9/2008	11:30:00	13.1	1.60	18.3
4/9/2008	11:45:00	13.0	1.59	18.1
4/9/2008	12:00:00	13.0	1.52	17.2
4/9/2008	12:15:00	13.0	1.49	16.9
4/9/2008	12:30:00	13.0	1.37	15.6
4/9/2008	12:45:00	13.0	1.34	15.2
4/9/2008	13:00:00	13.0	1.33	15.1
4/9/2008	13:15:00	13.0	1.31	14.9
4/9/2008	13:30:00	13.0	1.25	14.2
4/9/2008	13:45:00	12.9	1.15	13.1
4/9/2008	14:00:00	12.9	1.14	12.9
4/9/2008	14:15:00	12.9	0.80	9.1
4/9/2008	14:30:00	12.9	0.68	7.7
4/9/2008	14:45:00	12.9	0.89	10.0
4/9/2008	15:00:00	12.9	0.90	10.2
4/9/2008	15:15:00	12.9	0.88	9.9
4/9/2008	15:30:00	12.8	0.93	10.5
4/9/2008	15:45:00	12.8	0.93	10.6
4/9/2008	16:00:00	12.8	0.89	10.0
4/9/2008	16:15:00	12.9	0.87	9.8
4/9/2008	16:30:00	12.9	0.87	9.8
4/9/2008	16:45:00	12.8	0.97	11.0
4/9/2008	17:00:00	12.8	1.04	11.7
4/9/2008	17:15:00	12.8	1.07	12.2
4/9/2008	17:30:00	12.8	1.10	12.4
4/9/2008	17:45:00	12.8	1.11	12.5
4/9/2008	18:00:00	12.7	1.12	12.6
4/9/2008	18:15:00	12.7	1.15	12.9
4/9/2008	18:30:00	12.7	1.21	13.7
4/9/2008	18:45:00	12.7	0.82	9.2
4/9/2008	19:00:00	12.7	1.05	11.9
4/9/2008	19:15:00	12.7	1.10	12.4
4/9/2008	19:30:00	12.7	1.04	11.7
4/9/2008	19:45:00	12.7	1.05	11.8
4/9/2008	20:00:00	12.7	1.14	12.8
4/9/2008	20:15:00	12.7	0.80	9.0
4/9/2008	20:30:00	12.7	0.44	4.9
4/9/2008	20:45:00	12.7	0.48	5.4
4/9/2008	21:00:00	12.6	0.49	5.5
4/9/2008	21:15:00	12.6	0.55	6.2
4/9/2008	21:30:00	12.6	0.63	7.0
4/9/2008	21:45:00	12.6	0.61	6.9
4/9/2008	22:00:00	12.6	0.70	7.9
4/9/2008	22:15:00	12.5	0.84	9.5
4/9/2008	22:30:00	12.5	1.42	16.0

Table 5.69. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	22:45:00	12.4	1.52	17.0
4/9/2008	23:00:00	12.4	1.29	14.4
4/9/2008	23:15:00	12.4	1.32	14.8
4/9/2008	23:30:00	12.4	1.45	16.2
4/9/2008	23:45:00	12.4	1.49	16.7
4/10/2008	0:00:00	12.4	1.27	14.2
4/10/2008	0:15:00	12.4	1.06	11.8
4/10/2008	0:30:00	12.4	0.80	9.0
4/10/2008	0:45:00	12.3	0.62	6.9
4/10/2008	1:00:00	12.3	0.49	5.5
4/10/2008	1:15:00	12.3	0.90	10.1
4/10/2008	1:30:00	12.3	0.94	10.5
4/10/2008	1:45:00	12.3	1.17	13.1
4/10/2008	2:00:00	12.2	1.54	17.2
4/10/2008	2:15:00	12.3	1.75	19.6
4/10/2008	2:30:00	12.3	1.75	19.6
4/10/2008	2:45:00	12.3	1.36	15.2
4/10/2008	3:00:00	12.3	0.95	10.6
4/10/2008	3:15:00	12.3	0.58	6.5
4/10/2008	3:30:00	12.3	0.47	5.3
4/10/2008	3:45:00	12.3	0.48	5.3
4/10/2008	4:00:00	12.2	1.01	11.3
4/10/2008	4:15:00	12.2	0.91	10.1
4/10/2008	4:30:00	12.2	0.95	10.6
4/10/2008	4:45:00	12.2	0.94	10.5
4/10/2008	5:00:00	12.2	0.77	8.6
4/10/2008	5:15:00	12.2	0.75	8.4
4/10/2008	5:30:00	12.2	0.67	7.5
4/10/2008	5:45:00	12.1	0.66	7.4
4/10/2008	6:00:00	12.1	0.66	7.4
4/10/2008	6:15:00	12.1	0.55	6.1
4/10/2008	6:30:00	12.1	0.41	4.5
4/10/2008	6:45:00	12.1	0.37	4.1
4/10/2008	7:00:00	12.1	0.44	4.9
4/10/2008	7:15:00	12.1	0.48	5.3
4/10/2008	7:30:00	12.1	0.55	6.1
4/10/2008	7:45:00	12.0	0.71	7.9
4/10/2008	8:00:00	12.0	0.93	10.4
4/10/2008	8:15:00	10.7	1.46	15.7
4/10/2008	8:30:00	10.1	3.25	34.6
4/10/2008	8:45:00	10.0	4.69	49.7*
4/10/2008	9:00:00	9.8	6.42	67.8
4/10/2008	9:15:00	9.7	5.37	56.5
4/10/2008	9:30:00	9.7	3.53	37.2
4/10/2008	9:45:00	9.8	3.86	40.7
4/10/2008	10:00:00	9.9	5.17	54.7

Table 5.69. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/10/2008	10:15:00	10.1	6.02	64.0
4/10/2008	10:30:00	10.2	5.89	62.8
4/10/2008	10:45:00	10.2	5.50	58.7
4/10/2008	11:00:00	10.2	5.16	55.1
4/10/2008	11:15:00	10.3	5.14	55.0
4/10/2008	11:30:00	10.4	5.14	55.0
4/10/2008	11:45:00	10.4	5.80	62.1
4/10/2008	12:00:00	10.4	6.19	66.3
4/10/2008	12:15:00	10.4	6.51	69.7
4/10/2008	12:30:00	10.4	6.68	71.4
4/10/2008	12:45:00	10.4	5.83	62.4
4/10/2008	13:00:00	10.4	5.86	62.8
4/10/2008	13:15:00	10.5	5.76	61.9
4/10/2008	13:30:00	10.5	5.56	59.8
4/10/2008	13:45:00	10.6	5.48	59.0
4/10/2008	14:00:00	10.6	5.90	63.5
4/10/2008	14:15:00	10.6	6.07	65.4
4/10/2008	14:30:00	10.6	6.22	67.0
4/10/2008	14:45:00	10.7	6.33	68.2
4/10/2008	15:00:00	10.7	6.42	69.1
4/10/2008	15:15:00	10.7	6.58	70.9
4/10/2008	15:30:00	10.6	6.50	70.0
4/10/2008	15:45:00	10.6	5.94	64.0
4/10/2008	16:00:00	10.7	6.01	64.8
4/10/2008	16:15:00	10.7	5.88	63.5
4/10/2008	16:30:00	10.8	6.11	66.0
4/10/2008	16:45:00	10.8	6.28	67.9
4/10/2008	17:00:00	10.8	5.76	62.2
4/10/2008	17:15:00	10.8	4.83	52.1
4/10/2008	17:30:00	10.8	4.40	47.6
4/10/2008	17:45:00	10.9	4.29	46.4
4/10/2008	18:00:00	10.9	4.12	44.6
4/10/2008	18:15:00	10.9	4.02	43.5
4/10/2008	18:30:00	10.9	4.84	52.5
4/10/2008	18:45:00	10.9	5.36	58.2
4/10/2008	19:00:00	10.9	5.32	57.7
4/10/2008	19:15:00	10.9	5.30	57.4
4/10/2008	19:30:00	10.8	4.94	53.3
4/10/2008	19:45:00	10.9	5.01	54.3
4/10/2008	20:00:00	11.0	4.82	52.4
4/10/2008	20:15:00	11.0	4.81	52.3
4/10/2008	20:30:00	11.1	4.32	47.0
4/10/2008	20:45:00	11.1	3.43	37.3
4/10/2008	21:00:00	11.1	3.53	38.3
4/10/2008	21:15:00	11.1	3.82	41.5
4/10/2008	21:30:00	10.8	6.40	69.2

Table 5.69. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/10/2008	21:45:00	10.6	8.01	86.2
4/10/2008	22:00:00	10.6	8.60	92.5
4/10/2008	22:15:00	10.6	8.44	90.9
4/10/2008	22:30:00	10.6	8.57	92.3
4/10/2008	22:45:00	10.7	8.55	92.2
4/10/2008	23:00:00	10.8	6.98	75.3
4/10/2008	23:15:00	10.8	6.52	70.5
4/10/2008	23:30:00	10.9	4.63	50.2
4/10/2008	23:45:00	10.8	4.28	46.3
4/11/2008	0:00:00	10.8	4.19	45.3
4/11/2008	0:15:00	10.8	4.69	50.7
4/11/2008	0:30:00	10.4	4.59	49.2
4/11/2008	0:45:00	10.0	5.23	55.5
4/11/2008	1:00:00	9.6	8.11	85.2
4/11/2008	1:15:00	9.6	8.63	90.7
4/11/2008	1:30:00	9.6	8.54	89.9
4/11/2008	1:45:00	9.7	8.53	89.8
4/11/2008	2:00:00	9.8	8.42	88.9
4/11/2008	2:15:00	9.7	8.50	89.5
4/11/2008	2:30:00	9.8	8.47	89.5
4/11/2008	2:45:00	9.1	9.23	95.9
4/11/2008	3:00:00	9.1	9.23	95.9
4/11/2008	3:15:00	9.2	9.19	95.7
4/11/2008	3:30:00	9.3	9.06	94.5
4/11/2008	3:45:00	9.3	8.95	93.4
4/11/2008	4:00:00	9.4	8.87	92.7
4/11/2008	4:15:00	9.4	8.80	92.2
4/11/2008	4:30:00	9.5	8.51	89.2
4/11/2008	4:45:00	9.5	8.34	87.5
4/11/2008	5:00:00	9.6	8.34	87.5
4/11/2008	5:15:00	9.6	8.29	87.1
4/11/2008	5:30:00	9.6	8.21	86.3
4/11/2008	5:45:00	9.6	8.14	85.5
4/11/2008	6:00:00	9.7	8.03	84.5
4/11/2008	6:15:00	9.7	7.98	84.0
4/11/2008	6:30:00	9.7	7.88	83.0
4/11/2008	6:45:00	9.7	7.89	83.1
4/11/2008	7:00:00	9.7	7.98	84.1
4/11/2008	7:15:00	9.8	8.02	84.6
4/11/2008	7:30:00	9.8	8.10	85.4
4/11/2008	7:45:00	9.7	8.00	84.4
4/11/2008	8:00:00	9.7	7.52	79.2
4/11/2008	8:15:00	9.7	7.05	74.2
4/11/2008	8:30:00	9.6	6.43	67.6

Table 5.70. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**SITE4-4-07-2008**
Setup	**Date**	**(MMDDYY)**	**:**	**4/7/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**74612**
Starting	**Date**	**(MMDDYY)**	**:**	**4/7/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**150000**
Stopping	**Date**	**(MMDDYY)**	**:**	**4/18/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
4/7/2008	16:00:00	15.1	278	7.78	6.77	80.4
4/7/2008	16:15:00	15.1	278	7.82	6.54	77.6
4/7/2008	16:30:00	15.1	278	7.82	6.59	78.3
4/7/2008	16:45:00	15.1	278	7.86	6.44	76.5
4/7/2008	17:00:00	15.1	278	7.85	6.26	74.4
4/7/2008	17:15:00	15.1	278	7.86	6.63	78.8
4/7/2008	17:30:00	15.1	278	7.86	6.53	77.7
4/7/2008	17:45:00	15.1	278	7.85	6.68	79.5
4/7/2008	18:00:00	15.1	279	7.83	6.51	77.4
4/7/2008	18:15:00	15.1	279	7.83	6.53	77.6
4/7/2008	18:30:00	15.0	279	7.85	6.40	75.9
4/7/2008	18:45:00	14.9	280	7.86	6.25	74.0
4/7/2008	19:00:00	14.9	280	7.83	6.27	74.2
4/7/2008	19:15:00	14.8	281	7.80	6.35	74.9
4/7/2008	19:30:00	14.7	281	7.85	6.48	76.4
4/7/2008	19:45:00	14.6	281	7.87	6.63	78.1
4/7/2008	20:00:00	14.6	281	7.98	6.18	72.6
4/7/2008	20:15:00	14.5	280	8.07	5.55	65.2
4/7/2008	20:30:00	14.4	281	8.09	5.50	64.4
4/7/2008	20:45:00	14.4	281	8.08	5.66	66.2
4/7/2008	21:00:00	14.3	281	8.09	5.71	66.7
4/7/2008	21:15:00	14.2	281	8.09	5.21	60.8
4/7/2008	21:30:00	14.1	282	8.09	5.15	59.9
4/7/2008	21:45:00	14.1	281	8.08	5.07	58.9
4/7/2008	22:00:00	14.1	282	8.04	5.10	59.3
4/7/2008	22:15:00	14.0	282	7.99	4.78	55.5
4/7/2008	22:30:00	14.0	282	7.97	4.72	54.7
4/7/2008	22:45:00	14.0	281	7.97	4.68	54.2
4/7/2008	23:00:00	13.9	282	7.95	4.60	53.3
4/7/2008	23:15:00	13.9	282	7.92	4.46	51.6
4/7/2008	23:30:00	13.9	283	7.91	4.34	50.2

Table 5.70. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/7/2008	23:45:00	13.9	283	7.91	4.33	50.2
4/8/2008	0:00:00	13.9	285	7.92	4.36	50.5
4/8/2008	0:15:00	13.9	284	7.90	4.34	50.2
4/8/2008	0:30:00	13.9	285	7.92	4.45	51.5
4/8/2008	0:45:00	13.7	283	7.91	4.21	48.6
4/8/2008	1:00:00	13.7	284	7.90	4.26	49.1
4/8/2008	1:15:00	13.6	284	7.89	4.14	47.6
4/8/2008	1:30:00	13.6	284	7.88	3.78	43.5
4/8/2008	1:45:00	13.6	285	7.87	3.76	43.3
4/8/2008	2:00:00	13.5	285	7.86	3.69	42.4
4/8/2008	2:15:00	13.5	286	7.85	3.60	41.3
4/8/2008	2:30:00	13.5	288	7.84	3.61	41.5
4/8/2008	2:45:00	13.6	290	7.83	3.73	42.9
4/8/2008	3:00:00	13.6	289	7.83	3.83	44.0
4/8/2008	3:15:00	13.6	289	7.84	3.82	43.9
4/8/2008	3:30:00	13.5	289	7.84	3.79	43.5
4/8/2008	3:45:00	13.5	290	7.84	3.68	42.2
4/8/2008	4:00:00	13.5	290	7.82	3.48	40.0
4/8/2008	4:15:00	13.5	290	7.83	3.28	37.6
4/8/2008	4:30:00	13.5	288	7.83	2.71	31.1
4/8/2008	4:45:00	13.4	293	7.80	2.52	28.8
4/8/2008	5:00:00	13.4	293	7.80	3.15	36.1
4/8/2008	5:15:00	13.4	292	7.80	3.32	38.0
4/8/2008	5:30:00	13.4	292	7.80	3.20	36.6
4/8/2008	5:45:00	13.3	292	7.79	3.04	34.8
4/8/2008	6:00:00	13.3	292	7.79	3.11	35.5
4/8/2008	6:15:00	13.3	293	7.79	3.32	37.9
4/8/2008	6:30:00	13.3	294	7.78	3.56	40.7
4/8/2008	6:45:00	13.3	294	7.78	3.57	40.8
4/8/2008	7:00:00	13.3	294	7.78	3.76	43.1
4/8/2008	7:15:00	13.4	295	7.78	3.95	45.2
4/8/2008	7:30:00	13.3	295	7.79	3.85	44.1
4/8/2008	7:45:00	13.3	296	7.79	3.69	42.2
4/8/2008	8:00:00	13.3	295	7.76	3.17	36.3
4/8/2008	8:15:00	13.3	297	7.74	2.88	32.9
4/8/2008	8:30:00	13.3	294	7.74	3.25	37.2
4/8/2008	8:45:00	13.3	297	7.76	3.67	42.0
4/8/2008	9:00:00	13.2	298	7.79	3.44	39.3
4/8/2008	9:15:00	13.0	296	7.77	1.86	21.2
4/8/2008	9:30:00	12.2	298	7.76	1.95	21.7
4/8/2008	9:45:00	11.9	292	7.75	2.64	29.2
4/8/2008	10:00:00	11.9	290	7.72	3.44	38.1
4/8/2008	10:15:00	11.9	290	7.71	4.20	46.5
4/8/2008	10:30:00	12.0	291	7.71	4.50	49.9
4/8/2008	10:45:00	12.0	293	7.71	4.48	49.7

Table 5.70. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	11:00:00	12.1	293	7.72	4.37	48.7
4/8/2008	11:15:00	12.2	293	7.73	4.29	47.8
4/8/2008	11:30:00	12.1	294	7.74	4.22	46.9
4/8/2008	11:45:00	12.0	294	7.74	3.89	43.2
4/8/2008	12:00:00	12.0	294	7.74	3.61	40.1
4/8/2008	12:15:00	11.9	293	7.74	3.63	40.2
4/8/2008	12:30:00	11.9	293	7.74	3.50	38.8
4/8/2008	12:45:00	11.9	292	7.72	3.38	37.5
4/8/2008	13:00:00	11.9	298	7.71	3.45	38.3
4/8/2008	13:15:00	12.0	300	7.72	3.82	42.4
4/8/2008	13:30:00	12.1	302	7.73	3.86	42.9
4/8/2008	13:45:00	12.1	300	7.74	3.80	42.3
4/8/2008	14:00:00	12.1	300	7.74	3.23	36.0
4/8/2008	14:15:00	12.1	299	7.73	2.59	28.8
4/8/2008	14:30:00	12.1	298	7.71	2.67	29.7
4/8/2008	14:45:00	12.2	299	7.72	2.66	29.7
4/8/2008	15:00:00	12.2	302	7.73	2.53	28.2
4/8/2008	15:15:00	12.2	302	7.70	2.51	28.0
4/8/2008	15:30:00	12.3	305	7.72	2.47	27.6
4/8/2008	15:45:00	12.3	303	7.72	2.39	26.7
4/8/2008	16:00:00	12.4	303	7.71	2.14	24.0
4/8/2008	16:15:00	12.4	304	7.70	2.13	23.9
4/8/2008	16:30:00	12.5	305	7.70	2.15	24.1
4/8/2008	16:45:00	12.5	306	7.71	2.10	23.5
4/8/2008	17:00:00	12.6	307	7.71	2.04	23.0
4/8/2008	17:15:00	12.6	307	7.69	2.01	22.7
4/8/2008	17:30:00	12.7	308	7.71	2.03	22.8
4/8/2008	17:45:00	12.7	305	7.71	1.95	22.0
4/8/2008	18:00:00	12.7	306	7.71	1.72	19.4
4/8/2008	18:15:00	12.8	307	7.70	1.64	18.5
4/8/2008	18:30:00	12.8	309	7.71	1.70	19.2
4/8/2008	18:45:00	12.9	309	7.70	1.65	18.7
4/8/2008	19:00:00	12.9	308	7.69	1.53	17.4
4/8/2008	19:15:00	13.0	309	7.69	1.47	16.7
4/8/2008	19:30:00	13.0	310	7.68	1.43	16.2
4/8/2008	19:45:00	13.0	306	7.67	1.41	16.0
4/8/2008	20:00:00	13.1	311	7.70	1.46	16.6
4/8/2008	20:15:00	13.1	310	7.69	1.44	16.4
4/8/2008	20:30:00	13.1	311	7.70	1.38	15.7
4/8/2008	20:45:00	13.2	311	7.69	1.30	14.8
4/8/2008	21:00:00	13.2	310	7.66	1.35	15.3
4/8/2008	21:15:00	13.2	308	7.66	1.49	17.0
4/8/2008	21:30:00	13.2	308	7.67	1.70	19.4
4/8/2008	21:45:00	13.2	312	7.69	1.78	20.3
4/8/2008	22:00:00	13.2	311	7.68	1.55	17.7

Table 5.70. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	22:15:00	13.3	310	7.67	1.14	13.0
4/8/2008	22:30:00	13.3	311	7.67	0.79	9.0
4/8/2008	22:45:00	13.3	311	7.66	0.68	7.7
4/8/2008	23:00:00	13.3	309	7.65	0.68	7.7
4/8/2008	23:15:00	13.3	308	7.64	0.88	10.1
4/8/2008	23:30:00	13.3	307	7.63	1.13	12.9
4/8/2008	23:45:00	13.3	308	7.65	1.40	16.0
4/9/2008	0:00:00	13.3	314	7.66	1.45	16.6
4/9/2008	0:15:00	13.3	313	7.66	1.15	13.1
4/9/2008	0:30:00	13.3	314	7.65	0.85	9.7
4/9/2008	0:45:00	13.3	312	7.65	0.57	6.5
4/9/2008	1:00:00	13.3	314	7.64	0.44	5.0
4/9/2008	1:15:00	13.3	315	7.64	0.35	4.0
4/9/2008	1:30:00	13.3	307	7.61	0.42	4.8
4/9/2008	1:45:00	13.3	308	7.61	0.68	7.8
4/9/2008	2:00:00	13.3	313	7.64	0.91	10.4
4/9/2008	2:15:00	13.3	313	7.64	0.69	7.9
4/9/2008	2:30:00	13.3	311	7.64	0.38	4.4
4/9/2008	2:45:00	13.3	303	7.63	0.42	4.7
4/9/2008	3:00:00	13.2	307	7.64	0.71	8.1
4/9/2008	3:15:00	13.2	309	7.64	0.99	11.3
4/9/2008	3:30:00	13.1	311	7.64	0.90	10.2
4/9/2008	3:45:00	13.1	313	7.64	0.83	9.4
4/9/2008	4:00:00	13.1	314	7.63	0.76	8.6
4/9/2008	4:15:00	13.1	314	7.63	0.72	8.1
4/9/2008	4:30:00	13.0	314	7.63	0.62	7.1
4/9/2008	4:45:00	13.0	310	7.63	0.41	4.7
4/9/2008	5:00:00	13.0	310	7.63	0.31	3.6
4/9/2008	5:15:00	13.0	308	7.62	0.35	4.0
4/9/2008	5:30:00	12.9	305	7.62	0.43	4.8
4/9/2008	5:45:00	12.9	305	7.62	0.43	4.9
4/9/2008	6:00:00	12.9	314	7.64	0.46	5.2
4/9/2008	6:15:00	12.9	317	7.63	0.48	5.4
4/9/2008	6:30:00	12.9	314	7.62	0.44	4.9
4/9/2008	6:45:00	12.9	306	7.62	0.46	5.2
4/9/2008	7:00:00	12.8	306	7.62	0.46	5.2
4/9/2008	7:15:00	12.8	306	7.63	0.51	5.7
4/9/2008	7:30:00	12.8	316	7.63	0.67	7.6
4/9/2008	7:45:00	12.8	319	7.63	0.74	8.4
4/9/2008	8:00:00	12.8	319	7.62	0.63	7.2
4/9/2008	8:15:00	12.8	318	7.62	0.49	5.5
4/9/2008	8:30:00	12.8	312	7.62	0.37	4.2
4/9/2008	8:45:00	12.7	301	7.61	0.46	5.2
4/9/2008	9:00:00	12.2	305	7.59	0.91	10.2
4/9/2008	9:15:00	11.8	301	7.59	2.09	23.1

Table 5.70. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	9:30:00	11.7	304	7.61	2.71	29.9
4/9/2008	9:45:00	11.7	296	7.62	3.01	33.2
4/9/2008	10:00:00	11.7	295	7.63	3.10	34.1
4/9/2008	10:15:00	11.7	296	7.64	3.08	33.9
4/9/2008	10:30:00	11.7	297	7.65	2.96	32.6
4/9/2008	10:45:00	11.7	298	7.64	2.85	31.4
4/9/2008	11:00:00	11.7	299	7.64	2.64	29.1
4/9/2008	11:15:00	11.7	299	7.63	2.43	26.8
4/9/2008	11:30:00	11.7	299	7.63	2.30	25.3
4/9/2008	11:45:00	11.7	299	7.63	2.31	25.5
4/9/2008	12:00:00	11.7	299	7.64	2.38	26.2
4/9/2008	12:15:00	11.8	304	7.65	2.41	26.6
4/9/2008	12:30:00	11.8	308	7.66	2.21	24.4
4/9/2008	12:45:00	11.8	310	7.65	1.84	20.4
4/9/2008	13:00:00	11.9	310	7.64	1.53	16.9
4/9/2008	13:15:00	11.9	310	7.64	1.36	15.1
4/9/2008	13:30:00	11.9	310	7.63	1.25	13.9
4/9/2008	13:45:00	11.9	303	7.62	1.45	16.1
4/9/2008	14:00:00	11.9	302	7.62	1.62	17.9
4/9/2008	14:15:00	11.9	303	7.62	1.69	18.8
4/9/2008	14:30:00	11.9	305	7.63	1.71	18.9
4/9/2008	14:45:00	12.0	309	7.64	1.72	19.1
4/9/2008	15:00:00	12.0	315	7.64	1.62	18.0
4/9/2008	15:15:00	12.0	318	7.63	1.39	15.4
4/9/2008	15:30:00	12.0	314	7.62	1.29	14.3
4/9/2008	15:45:00	12.0	308	7.62	1.30	14.4
4/9/2008	16:00:00	12.0	315	7.63	1.30	14.4
4/9/2008	16:15:00	12.0	321	7.63	1.11	12.3
4/9/2008	16:30:00	12.0	320	7.62	0.83	9.2
4/9/2008	16:45:00	12.1	318	7.62	0.72	8.0
4/9/2008	17:00:00	12.1	319	7.63	0.74	8.2
4/9/2008	17:15:00	12.1	319	7.63	0.67	7.4
4/9/2008	17:30:00	12.1	317	7.62	0.66	7.3
4/9/2008	17:45:00	12.1	305	7.61	0.67	7.4
4/9/2008	18:00:00	12.0	302	7.61	0.70	7.8
4/9/2008	18:15:00	12.0	304	7.60	0.88	9.8
4/9/2008	18:30:00	12.1	305	7.60	1.03	11.5
4/9/2008	18:45:00	12.1	311	7.62	1.10	12.2
4/9/2008	19:00:00	12.1	316	7.63	1.06	11.8
4/9/2008	19:15:00	12.1	315	7.62	0.79	8.8
4/9/2008	19:30:00	12.0	304	7.61	0.54	6.0
4/9/2008	19:45:00	11.8	302	7.60	0.50	5.6
4/9/2008	20:00:00	11.6	303	7.57	0.74	8.1
4/9/2008	20:15:00	11.6	299	7.60	1.55	17.0
4/9/2008	20:30:00	11.5	299	7.60	2.21	24.2

Table 5.70. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	20:45:00	11.5	301	7.59	2.49	27.4
4/9/2008	21:00:00	11.5	302	7.59	2.67	29.3
4/9/2008	21:15:00	11.5	303	7.60	2.69	29.5
4/9/2008	21:30:00	11.6	304	7.61	2.72	29.9
4/9/2008	21:45:00	11.5	306	7.62	2.54	27.9
4/9/2008	22:00:00	11.5	308	7.60	2.13	23.4
4/9/2008	22:15:00	11.5	307	7.60	2.00	21.9
4/9/2008	22:30:00	11.4	300	7.59	1.76	19.2
4/9/2008	22:45:00	11.3	298	7.59	1.71	18.7
4/9/2008	23:00:00	11.3	296	7.59	1.73	18.9
4/9/2008	23:15:00	11.3	297	7.60	1.76	19.3
4/9/2008	23:30:00	11.3	298	7.61	1.86	20.3
4/9/2008	23:45:00	11.3	302	7.62	1.92	20.9
4/10/2008	0:00:00	11.3	303	7.63	1.94	21.2
4/10/2008	0:15:00	11.2	308	7.63	1.80	19.6
4/10/2008	0:30:00	11.2	310	7.61	1.67	18.2
4/10/2008	0:45:00	11.2	309	7.60	1.63	17.7
4/10/2008	1:00:00	10.9	281	7.59	1.66	17.9
4/10/2008	1:15:00	10.5	290	7.65	2.08	22.3
4/10/2008	1:30:00	10.4	294	7.64	2.86	30.6
4/10/2008	1:45:00	10.4	294	7.63	3.17	33.9
4/10/2008	2:00:00	10.4	294	7.64	3.30	35.4
4/10/2008	2:15:00	10.4	294	7.66	3.22	34.5
4/10/2008	2:30:00	10.4	294	7.65	3.03	32.4
4/10/2008	2:45:00	10.4	294	7.65	2.97	31.8
4/10/2008	3:00:00	10.4	295	7.65	2.95	31.5
4/10/2008	3:15:00	10.4	300	7.66	2.88	30.9
4/10/2008	3:30:00	10.4	300	7.65	2.86	30.6
4/10/2008	3:45:00	10.5	299	7.65	2.87	30.7
4/10/2008	4:00:00	10.5	299	7.65	2.83	30.4
4/10/2008	4:15:00	10.5	299	7.65	2.79	30.0
4/10/2008	4:30:00	10.5	300	7.65	2.74	29.4
4/10/2008	4:45:00	10.6	303	7.65	2.69	28.9
4/10/2008	5:00:00	10.6	304	7.64	2.54	27.3
4/10/2008	5:15:00	10.6	302	7.64	2.45	26.3
4/10/2008	5:30:00	10.6	298	7.63	2.43	26.1
4/10/2008	5:45:00	10.6	298	7.64	2.41	25.9
4/10/2008	6:00:00	10.6	299	7.64	2.37	25.4
4/10/2008	6:15:00	10.6	300	7.64	2.34	25.2
4/10/2008	6:30:00	10.6	308	7.65	2.31	24.8
4/10/2008	6:45:00	10.7	311	7.64	2.23	24.0
4/10/2008	7:00:00	10.7	312	7.64	2.15	23.1
4/10/2008	7:15:00	10.7	313	7.64	2.04	22.0
4/10/2008	7:30:00	10.7	313	7.64	1.90	20.4
4/10/2008	7:45:00	10.7	312	7.64	1.84	19.8

Table 5.70. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/10/2008	8:00:00	10.5	296	7.63	2.06	22.1
4/10/2008	8:15:00	9.4	298	7.74	3.01	31.4
4/10/2008	8:30:00	8.8	278	7.84	5.67	58.4
4/10/2008	8:45:00	8.7	272	7.89	5.44	55.9
4/10/2008	9:00:00	8.7	284	7.84	4.93	50.7
4/10/2008	9:15:00	8.7	292	7.74	4.81	49.5
4/10/2008	9:30:00	8.7	291	7.71	4.73	48.7
4/10/2008	9:45:00	8.8	290	7.71	4.57	47.1
4/10/2008	10:00:00	8.8	291	7.71	4.45	45.9
4/10/2008	10:15:00	8.9	289	7.72	4.34	44.7
4/10/2008	10:30:00	8.9	289	7.72	4.28	44.2
4/10/2008	10:45:00	8.9	288	7.73	4.20	43.3
4/10/2008	11:00:00	8.9	287	7.74	4.06	41.8
4/10/2008	11:15:00	8.9	283	7.75	3.96	40.8
4/10/2008	11:30:00	9.0	286	7.74	4.05	41.9
4/10/2008	11:45:00	9.0	287	7.74	4.05	42.0
4/10/2008	12:00:00	9.1	288	7.72	4.07	42.2
4/10/2008	12:15:00	9.2	289	7.69	4.19	43.6
4/10/2008	12:30:00	9.4	291	7.65	4.27	44.6
4/10/2008	12:45:00	9.4	289	7.66	4.13	43.2
4/10/2008	13:00:00	9.5	289	7.67	4.06	42.5
4/10/2008	13:15:00	9.5	289	7.68	3.98	41.7
4/10/2008	13:30:00	9.5	288	7.69	3.86	40.4
4/10/2008	13:45:00	9.6	282	7.74	3.60	37.8
4/10/2008	14:00:00	9.7	276	7.73	3.93	41.3
4/10/2008	14:15:00	9.8	277	7.73	4.10	43.2
4/10/2008	14:30:00	9.9	290	7.70	4.05	42.8
4/10/2008	14:45:00	9.9	288	7.68	3.97	41.9
4/10/2008	15:00:00	9.9	287	7.68	3.94	41.7
4/10/2008	15:15:00	9.9	288	7.69	3.87	40.9
4/10/2008	15:30:00	10.0	289	7.68	3.89	41.2
4/10/2008	15:45:00	10.0	288	7.70	3.87	41.0
4/10/2008	16:00:00	10.0	288	7.69	3.83	40.6
4/10/2008	16:15:00	10.0	286	7.71	3.74	39.7
4/10/2008	16:30:00	10.2	279	7.71	3.78	40.3
4/10/2008	16:45:00	10.3	285	7.77	4.57	48.9
4/10/2008	17:00:00	10.5	287	7.78	4.84	51.9
4/10/2008	17:15:00	10.5	284	7.79	4.78	51.3
4/10/2008	17:30:00	10.5	274	7.80	4.63	49.7
4/10/2008	17:45:00	10.5	272	7.79	4.43	47.5
4/10/2008	18:00:00	10.6	275	7.77	4.53	48.6
4/10/2008	18:15:00	10.6	268	7.77	4.72	50.7
4/10/2008	18:30:00	10.6	268	7.76	4.74	50.9
4/10/2008	18:45:00	10.5	267	7.76	4.93	52.9
4/10/2008	19:00:00	10.5	269	7.85	5.64	60.5

Table 5.70. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/10/2008	19:15:00	10.4	268	7.90	5.54	59.3
4/10/2008	19:30:00	10.4	269	7.90	5.15	55.1
4/10/2008	19:45:00	10.4	271	7.89	4.78	51.1
4/10/2008	20:00:00	10.4	277	7.87	4.65	49.6
4/10/2008	20:15:00	10.4	276	7.83	4.54	48.6
4/10/2008	20:30:00	10.3	273	7.79	4.41	47.1
4/10/2008	20:45:00	10.3	274	7.79	4.37	46.7
4/10/2008	21:00:00	10.3	275	7.79	4.32	46.1
4/10/2008	21:15:00	10.3	275	7.78	4.23	45.1
4/10/2008	21:30:00	10.3	275	7.77	4.22	44.9
4/10/2008	21:45:00	10.2	272	7.78	4.52	48.1
4/10/2008	22:00:00	10.2	273	7.77	4.42	47.0
4/10/2008	22:15:00	10.1	270	7.79	4.72	50.1
4/10/2008	22:30:00	10.0	275	7.79	5.27	55.9
4/10/2008	22:45:00	10.0	278	7.80	4.70	49.7
4/10/2008	23:00:00	9.7	270	7.89	5.98	63.0
4/10/2008	23:15:00	9.7	269	7.90	5.65	59.4
4/10/2008	23:30:00	9.6	271	7.89	5.54	58.2
4/10/2008	23:45:00	9.5	269	7.89	5.68	59.5
4/11/2008	0:00:00	9.5	269	7.93	5.45	57.1
4/11/2008	0:15:00	9.4	270	7.92	5.42	56.6
4/11/2008	0:30:00	9.3	269	7.93	5.14	53.6
4/11/2008	0:45:00	9.3	270	7.94	5.04	52.5
4/11/2008	1:00:00	9.2	269	7.93	4.81	50.1
4/11/2008	1:15:00	9.2	269	7.94	4.92	51.1
4/11/2008	1:30:00	9.1	269	7.94	4.42	45.9
4/11/2008	1:45:00	9.1	269	7.93	4.81	49.9
4/11/2008	2:00:00	9.1	269	7.93	4.53	47.0
4/11/2008	2:15:00	9.0	269	7.92	4.29	44.5
4/11/2008	2:30:00	9.0	270	7.88	4.02	41.6
4/11/2008	2:45:00	9.0	269	7.90	4.69	48.5
4/11/2008	3:00:00	9.0	269	7.90	4.76	49.2
4/11/2008	3:15:00	8.9	269	7.91	4.64	48.0
4/11/2008	3:30:00	8.9	269	7.91	4.22	43.6
4/11/2008	3:45:00	8.9	269	7.91	4.09	42.2
4/11/2008	4:00:00	8.8	270	7.90	3.89	40.1
4/11/2008	4:15:00	8.8	271	7.89	3.72	38.3
4/11/2008	4:30:00	8.8	270	7.89	3.65	37.6
4/11/2008	4:45:00	8.7	269	7.91	3.80	39.1
4/11/2008	5:00:00	8.7	270	7.90	4.13	42.4
4/11/2008	5:15:00	8.6	269	7.91	3.95	40.5
4/11/2008	5:30:00	8.6	269	7.90	3.83	39.2
4/11/2008	5:45:00	8.6	269	7.90	4.11	42.1
4/11/2008	6:00:00	8.5	270	7.90	3.87	39.6
4/11/2008	6:15:00	8.5	270	7.89	3.56	36.4

Table 5.70. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/11/2008	6:30:00	8.5	270	7.90	4.13	42.1
4/11/2008	6:45:00	8.3	270	7.92	4.01	40.8
4/11/2008	7:00:00	8.2	270	7.92	4.04	41.1
4/11/2008	7:15:00	8.2	271	7.93	3.88	39.3
4/11/2008	7:30:00	8.1	271	7.92	3.49	35.4
4/11/2008	7:45:00	8.1	271	7.93	2.61	26.4
4/11/2008	8:00:00	8.1	271	7.93	2.26	22.9
4/11/2008	8:15:00	8.1	271	7.93	2.02	20.5
4/11/2008	8:30:00	8.1	272	7.94	1.89	19.1

Table 5.71. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	45476	**Name**	**:**	**Apollo**
Log	**File**	**Name**	**:**	site5_4-7-2008Ap
Setup	**Date**	**(MMDDYY)**	**:**	**4/7/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**12:17:43**
Starting	**Date**	**(MMDDYY)**	**:**	**4/7/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**13:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**4/7/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**13:18:36**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
4/7/2008	14:03:36	14.4	8.32	96.6
4/7/2008	14:18:36	14.5	8.34	97.2
4/7/2008	14:33:36	14.6	8.34	97.4
4/7/2008	14:48:36	14.7	8.35	97.6
4/7/2008	15:03:36	14.8	8.35	97.8
4/7/2008	15:18:36	14.8	8.34	97.8
4/7/2008	15:33:36	14.9	8.34	97.9
4/7/2008	15:48:36	14.9	8.33	97.9
4/7/2008	16:03:36	15.0	8.32	97.9
4/7/2008	16:18:36	15.0	8.31	97.9
4/7/2008	16:33:36	15.1	8.30	97.9
4/7/2008	16:48:36	15.1	8.29	97.8
4/7/2008	17:03:36	15.2	8.28	97.8
4/7/2008	17:18:36	15.3	8.27	97.9
4/7/2008	17:33:36	15.4	8.25	97.9
4/7/2008	17:48:36	15.4	8.24	97.9
4/7/2008	18:03:36	15.5	8.23	97.9
4/7/2008	18:18:36	15.5	8.22	97.8
4/7/2008	18:33:36	15.5	8.21	97.7
4/7/2008	18:48:36	15.5	8.20	97.5
4/7/2008	19:03:36	15.5	8.18	97.4
4/7/2008	19:18:36	15.5	8.17	97.3
4/7/2008	19:33:36	15.5	8.16	97.1
4/7/2008	19:48:36	15.5	8.15	96.9
4/7/2008	20:03:36	15.5	8.13	96.8
4/7/2008	20:18:36	15.4	8.12	96.6
4/7/2008	20:33:36	15.4	8.12	96.4
4/7/2008	20:48:36	15.4	8.11	96.2
4/7/2008	21:03:36	15.3	8.10	96.0
4/7/2008	21:18:36	15.2	8.10	95.8
4/7/2008	21:33:36	15.2	8.09	95.6
4/7/2008	21:48:36	15.1	8.09	95.4
4/7/2008	22:03:36	15.0	8.09	95.2
4/7/2008	22:18:36	14.9	8.09	95.0
4/7/2008	22:33:36	14.8	8.09	94.8

Table 5.71. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/7/2008	22:48:36	14.7	8.09	94.7
4/7/2008	23:03:36	14.7	8.08	94.5
4/7/2008	23:18:36	14.6	8.08	94.4
4/7/2008	23:33:36	14.5	8.08	94.2
4/7/2008	23:48:36	14.5	8.08	94.1
4/8/2008	0:03:36	14.4	8.08	93.9
4/8/2008	0:18:36	14.3	8.08	93.8
4/8/2008	0:33:36	14.3	8.08	93.7
4/8/2008	0:48:36	14.2	8.09	93.6
4/8/2008	1:03:36	14.1	8.09	93.4
4/8/2008	1:18:36	14.1	8.09	93.3
4/8/2008	1:33:36	14.0	8.09	93.2
4/8/2008	1:48:36	14.0	8.09	93.1
4/8/2008	2:03:36	13.9	8.09	92.9
4/8/2008	2:18:36	13.8	8.10	92.9
4/8/2008	2:33:36	13.7	8.10	92.8
4/8/2008	2:48:36	13.7	8.10	92.7
4/8/2008	3:03:36	13.6	8.11	92.6
4/8/2008	3:18:36	13.6	8.11	92.5
4/8/2008	3:33:36	13.5	8.12	92.5
4/8/2008	3:48:36	13.4	8.13	92.4
4/8/2008	4:03:36	13.4	8.13	92.4
4/8/2008	4:18:36	13.4	8.14	92.4
4/8/2008	4:33:36	13.3	8.14	92.3
4/8/2008	4:48:36	13.3	8.15	92.3
4/8/2008	5:03:36	13.2	8.15	92.3
4/8/2008	5:18:36	13.2	8.16	92.3
4/8/2008	5:33:36	13.1	8.17	92.2
4/8/2008	5:48:36	13.1	8.17	92.2
4/8/2008	6:03:36	13.0	8.18	92.2
4/8/2008	6:18:36	13.0	8.19	92.1
4/8/2008	6:33:36	12.9	8.19	92.1
4/8/2008	6:48:36	12.9	8.20	92.1
4/8/2008	7:03:36	12.8	8.21	92.1
4/8/2008	7:18:36	12.8	8.22	92.1
4/8/2008	7:33:36	12.8	8.22	92.1
4/8/2008	7:48:36	12.7	8.23	92.1
4/8/2008	8:03:36	12.7	8.24	92.2
4/8/2008	8:18:36	12.7	8.25	92.2
4/8/2008	8:33:36	12.7	8.26	92.3
4/8/2008	8:48:36	12.6	8.27	92.4
4/8/2008	9:03:36	12.6	8.28	92.5
4/8/2008	9:18:36	12.6	8.30	92.7
4/8/2008	9:33:36	12.7	8.31	92.9
4/8/2008	9:48:36	12.7	8.32	93.0
4/8/2008	10:03:36	12.7	8.34	93.3

Table 5.71. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	10:18:36	12.7	8.35	93.5
4/8/2008	10:33:36	12.8	8.36	93.7
4/8/2008	10:48:36	12.8	8.37	94.0
4/8/2008	11:03:36	12.9	8.39	94.2
4/8/2008	11:18:36	13.0	8.40	94.5
4/8/2008	11:33:36	13.1	8.41	94.8
4/8/2008	11:48:36	13.1	8.42	95.1
4/8/2008	12:03:36	13.2	8.43	95.4
4/8/2008	12:18:36	13.3	8.43	95.7
4/8/2008	12:33:36	13.4	8.44	96.0
4/8/2008	12:48:36	13.6	8.44	96.3
4/8/2008	13:03:36	13.7	8.45	96.6
4/8/2008	13:18:36	13.8	8.45	96.9
4/8/2008	13:33:36	13.9	8.45	97.2
4/8/2008	13:48:36	14.0	8.45	97.5
4/8/2008	14:03:36	14.2	8.46	97.7
4/8/2008	14:18:36	14.3	8.46	98.0
4/8/2008	14:33:36	14.4	8.45	98.2
4/8/2008	14:48:36	14.5	8.45	98.5
4/8/2008	15:03:36	14.7	8.45	98.7
4/8/2008	15:18:36	14.8	8.45	98.9
4/8/2008	15:33:36	14.9	8.44	99.1
4/8/2008	15:48:36	15.0	8.44	99.2
4/8/2008	16:03:36	15.1	8.43	99.4
4/8/2008	16:18:36	15.2	8.42	99.5
4/8/2008	16:33:36	15.2	8.41	99.5
4/8/2008	16:48:36	15.3	8.40	99.6
4/8/2008	17:03:36	15.4	8.39	99.6
4/8/2008	17:18:36	15.4	8.38	99.6
4/8/2008	17:33:36	15.5	8.37	99.5
4/8/2008	17:48:36	15.5	8.36	99.4
4/8/2008	18:03:36	15.5	8.34	99.2
4/8/2008	18:18:36	15.5	8.33	99.1
4/8/2008	18:33:36	15.4	8.32	98.9
4/8/2008	18:48:36	15.4	8.31	98.7
4/8/2008	19:03:36	15.4	8.30	98.5
4/8/2008	19:18:36	15.3	8.28	98.3
4/8/2008	19:33:36	15.3	8.27	98.0
4/8/2008	19:48:36	15.3	8.26	97.8
4/8/2008	20:03:36	15.3	8.24	97.6
4/8/2008	20:18:36	15.3	8.23	97.4
4/8/2008	20:33:36	15.2	8.22	97.2
4/8/2008	20:48:36	15.2	8.21	97.0
4/8/2008	21:03:36	15.1	8.20	96.8
4/8/2008	21:18:36	15.1	8.18	96.6
4/8/2008	21:33:36	15.1	8.18	96.4

Table 5.71. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	21:48:36	15.0	8.16	96.2
4/8/2008	22:03:36	15.0	8.15	96.0
4/8/2008	22:18:36	14.9	8.15	95.8
4/8/2008	22:33:36	14.9	8.14	95.6
4/8/2008	22:48:36	14.9	8.13	95.4
4/8/2008	23:03:36	14.8	8.13	95.3
4/8/2008	23:18:36	14.8	8.12	95.1
4/8/2008	23:33:36	14.7	8.12	95.0
4/8/2008	23:48:36	14.6	8.12	94.8
4/9/2008	0:03:36	14.6	8.11	94.6
4/9/2008	0:18:36	14.5	8.11	94.5
4/9/2008	0:33:36	14.4	8.11	94.3
4/9/2008	0:48:36	14.4	8.11	94.2
4/9/2008	1:03:36	14.3	8.11	94.1
4/9/2008	1:18:36	14.2	8.11	93.9
4/9/2008	1:33:36	14.2	8.11	93.8
4/9/2008	1:48:36	14.1	8.12	93.7
4/9/2008	2:03:36	14.1	8.12	93.6
4/9/2008	2:18:36	14.0	8.12	93.6
4/9/2008	2:33:36	14.0	8.12	93.5
4/9/2008	2:48:36	13.9	8.12	93.3
4/9/2008	3:03:36	13.9	8.12	93.3
4/9/2008	3:18:36	13.8	8.12	93.2
4/9/2008	3:33:36	13.8	8.12	93.1
4/9/2008	3:48:36	13.8	8.12	93.0
4/9/2008	4:03:36	13.7	8.12	93.0
4/9/2008	4:18:36	13.7	8.12	92.9
4/9/2008	4:33:36	13.6	8.12	92.8
4/9/2008	4:48:36	13.6	8.13	92.7
4/9/2008	5:03:36	13.6	8.13	92.7
4/9/2008	5:18:36	13.5	8.13	92.7
4/9/2008	5:33:36	13.5	8.13	92.5
4/9/2008	5:48:36	13.5	8.13	92.5
4/9/2008	6:03:36	13.4	8.13	92.5
4/9/2008	6:18:36	13.4	8.13	92.4
4/9/2008	6:33:36	13.4	8.14	92.4
4/9/2008	6:48:36	13.3	8.14	92.3
4/9/2008	7:03:36	13.3	8.14	92.3
4/9/2008	7:18:36	13.3	8.14	92.3
4/9/2008	7:33:36	13.3	8.14	92.2
4/9/2008	7:48:36	13.2	8.15	92.2
4/9/2008	8:03:36	13.2	8.15	92.2
4/9/2008	8:18:36	13.2	8.16	92.3
4/9/2008	8:33:36	13.2	8.16	92.3
4/9/2008	8:48:36	13.2	8.17	92.4
4/9/2008	9:03:36	13.2	8.18	92.4

Table 5.71. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	9:18:36	13.1	8.19	92.5
4/9/2008	9:33:36	13.1	8.20	92.7
4/9/2008	9:48:36	13.1	8.21	92.8
4/9/2008	10:03:36	13.1	8.22	92.9
4/9/2008	10:18:36	13.1	8.24	93.1
4/9/2008	10:33:36	13.2	8.25	93.3
4/9/2008	10:48:36	13.2	8.26	93.4
4/9/2008	11:03:36	13.2	8.27	93.6
4/9/2008	11:18:36	13.2	8.28	93.7
4/9/2008	11:33:36	13.2	8.30	93.9
4/9/2008	11:48:36	13.2	8.31	94.1
4/9/2008	12:03:36	13.3	8.33	94.3
4/9/2008	12:18:36	13.3	8.34	94.5
4/9/2008	12:33:36	13.3	8.35	94.7
4/9/2008	12:48:36	13.3	8.36	94.8
4/9/2008	13:03:36	13.3	8.37	94.9
4/9/2008	13:18:36	13.3	8.38	95.1
4/9/2008	13:33:36	13.3	8.38	95.2
4/9/2008	13:48:36	13.3	8.39	95.3
4/9/2008	14:03:36	13.3	8.40	95.4
4/9/2008	14:18:36	13.3	8.41	95.4
4/9/2008	14:33:36	13.3	8.42	95.5
4/9/2008	14:48:36	13.3	8.42	95.6
4/9/2008	15:03:36	13.3	8.43	95.6
4/9/2008	15:18:36	13.3	8.43	95.6
4/9/2008	15:33:36	13.3	8.44	95.6
4/9/2008	15:48:36	13.3	8.44	95.6
4/9/2008	16:03:36	13.2	8.45	95.6
4/9/2008	16:18:36	13.2	8.45	95.6
4/9/2008	16:33:36	13.2	8.45	95.5
4/9/2008	16:48:36	13.1	8.45	95.5
4/9/2008	17:03:36	13.1	8.46	95.5
4/9/2008	17:18:36	13.1	8.46	95.5
4/9/2008	17:33:36	13.1	8.46	95.5
4/9/2008	17:48:36	13.1	8.47	95.5
4/9/2008	18:03:36	13.0	8.46	95.4
4/9/2008	18:18:36	13.0	8.46	95.4
4/9/2008	18:33:36	13.0	8.46	95.3
4/9/2008	18:48:36	13.0	8.46	95.2
4/9/2008	19:03:36	12.9	8.46	95.1
4/9/2008	19:18:36	12.9	8.46	95.1
4/9/2008	19:33:36	12.9	8.46	95.0
4/9/2008	19:48:36	12.8	8.46	94.9
4/9/2008	20:03:36	12.8	8.46	94.8
4/9/2008	20:18:36	12.8	8.46	94.7
4/9/2008	20:33:36	12.7	8.46	94.7

Table 5.71. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	20:48:36	12.7	8.46	94.6
4/9/2008	21:03:36	12.6	8.46	94.5
4/9/2008	21:18:36	12.6	8.46	94.5
4/9/2008	21:33:36	12.6	8.47	94.4
4/9/2008	21:48:36	12.5	8.47	94.4
4/9/2008	22:03:36	12.5	8.48	94.3
4/9/2008	22:18:36	12.4	8.48	94.3
4/9/2008	22:33:36	12.4	8.49	94.2
4/9/2008	22:48:36	12.3	8.49	94.1
4/9/2008	23:03:36	12.2	8.50	94.1
4/9/2008	23:18:36	12.2	8.50	94.0
4/9/2008	23:33:36	12.1	8.50	93.9
4/9/2008	23:48:36	12.1	8.51	93.8
4/10/2008	0:03:36	12.0	8.51	93.7
4/10/2008	0:18:36	12.0	8.52	93.7
4/10/2008	0:33:36	11.9	8.52	93.6
4/10/2008	0:48:36	11.9	8.53	93.6
4/10/2008	1:03:36	11.8	8.53	93.5
4/10/2008	1:18:36	11.8	8.53	93.4
4/10/2008	1:33:36	11.7	8.53	93.3
4/10/2008	1:48:36	11.7	8.49	92.8
4/10/2008	2:03:36	11.6	8.01	87.4
4/10/2008	2:18:36	11.6	7.35	80.1
4/10/2008	2:33:36	11.5	6.88	75.0
4/10/2008	2:48:36	11.5	6.91	75.2
4/10/2008	3:03:36	11.5	6.91	75.2
4/10/2008	3:18:36	11.4	6.77	73.5
4/10/2008	3:33:36	11.4	6.64	72.1
4/10/2008	3:48:36	11.3	6.60	71.5
4/10/2008	4:03:36	11.3	6.31	68.3
4/10/2008	4:18:36	11.2	5.40	58.4
4/10/2008	4:33:36	11.2	4.65	50.2
4/10/2008	4:48:36	11.1	3.79	40.8
4/10/2008	5:03:36	11.1	3.54	38.1
4/10/2008	5:18:36	11.0	3.83	41.2
4/10/2008	5:33:36	11.0	8.02	86.2
4/10/2008	5:48:36	10.9	8.60	92.3
4/10/2008	6:03:36	10.9	8.59	92.1
4/10/2008	6:18:36	10.8	8.64	92.5
4/10/2008	6:33:36	10.7	8.66	92.5
4/10/2008	6:48:36	10.7	8.66	92.5
4/10/2008	7:03:36	10.6	8.67	92.5
4/10/2008	7:18:36	10.6	8.68	92.4
4/10/2008	7:33:36	10.5	8.69	92.4
4/10/2008	7:48:36	10.5	8.70	92.4
4/10/2008	8:03:36	10.4	8.71	92.4

Table 5.71. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/10/2008	8:18:36	10.4	8.72	92.4
4/10/2008	8:33:36	10.3	8.72	92.4
4/10/2008	8:48:36	10.3	8.74	92.4
4/10/2008	9:03:36	10.2	8.75	92.5
4/10/2008	9:18:36	10.2	8.76	92.6
4/10/2008	9:33:36	10.2	8.78	92.7
4/10/2008	9:48:36	10.2	8.80	92.9
4/10/2008	10:03:36	10.2	8.82	93.2
4/10/2008	10:18:36	10.2	8.84	93.4
4/10/2008	10:33:36	10.3	8.86	93.6
4/10/2008	10:48:36	10.3	8.88	93.9

Table 5.72. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36754**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**SITE4-4-07-2008**
Setup	**Date**	**(MMDDYY)**	**:**	**4/7/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**74612**
Starting	**Date**	**(MMDDYY)**	**:**	**4/7/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**150000**
Stopping	**Date**	**(MMDDYY)**	**:**	**4/18/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**100**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
4/7/2008	14:00:00	14.2	297	7.70	6.59	76.1
4/7/2008	14:15:00	14.3	297	7.71	6.55	75.8
4/7/2008	14:30:00	14.4	297	7.71	6.53	75.7
4/7/2008	14:45:00	14.5	297	7.72	6.50	75.5
4/7/2008	15:00:00	14.5	296	7.73	6.52	75.8
4/7/2008	15:15:00	14.6	297	7.73	6.54	76.1
4/7/2008	15:30:00	14.6	295	7.72	6.54	76.2
4/7/2008	15:45:00	14.7	296	7.73	6.58	76.7
4/7/2008	16:00:00	14.7	295	7.73	6.54	76.4
4/7/2008	16:15:00	14.8	297	7.73	6.58	77.0
4/7/2008	16:30:00	14.8	297	7.73	6.53	76.4
4/7/2008	16:45:00	14.9	295	7.74	6.63	77.7
4/7/2008	17:00:00	15.0	297	7.73	6.57	77.1
4/7/2008	17:15:00	15.1	295	7.73	6.59	77.6
4/7/2008	17:30:00	15.1	296	7.74	6.54	77.0
4/7/2008	17:45:00	15.2	296	7.74	6.52	76.9
4/7/2008	18:00:00	15.2	298	7.73	6.49	76.6
4/7/2008	18:15:00	15.2	297	7.72	6.51	76.8
4/7/2008	18:30:00	15.2	298	7.72	6.48	76.5
4/7/2008	18:45:00	15.2	296	7.72	6.50	76.7
4/7/2008	19:00:00	15.2	297	7.71	6.48	76.4
4/7/2008	19:15:00	15.2	298	7.71	6.45	76.1
4/7/2008	19:30:00	15.2	296	7.71	6.45	76.1
4/7/2008	19:45:00	15.2	297	7.71	6.40	75.5
4/7/2008	20:00:00	15.2	296	7.71	6.37	75.1
4/7/2008	20:15:00	15.1	297	7.70	6.43	75.7
4/7/2008	20:30:00	15.1	297	7.70	6.38	75.1
4/7/2008	20:45:00	15.0	297	7.70	6.40	75.3
4/7/2008	21:00:00	14.9	298	7.69	6.42	75.3
4/7/2008	21:15:00	14.9	296	7.69	6.42	75.3
4/7/2008	21:30:00	14.8	297	7.70	6.41	75.0

Table 5.72. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/7/2008	21:45:00	14.7	299	7.70	6.42	75.0
4/7/2008	22:00:00	14.6	298	7.69	6.40	74.6
4/7/2008	22:15:00	14.5	298	7.70	6.39	74.3
4/7/2008	22:30:00	14.5	298	7.69	6.33	73.5
4/7/2008	22:45:00	14.4	297	7.69	6.34	73.5
4/7/2008	23:00:00	14.3	297	7.68	6.41	74.2
4/7/2008	23:15:00	14.2	298	7.68	6.42	74.2
4/7/2008	23:30:00	14.2	297	7.68	6.39	73.7
4/7/2008	23:45:00	14.1	298	7.68	6.43	74.0
4/8/2008	0:00:00	14.0	298	7.67	6.47	74.5
4/8/2008	0:15:00	14.0	297	7.67	6.42	73.8
4/8/2008	0:30:00	13.9	298	7.67	6.42	73.7
4/8/2008	0:45:00	13.8	297	7.67	6.41	73.4
4/8/2008	1:00:00	13.8	298	7.66	6.44	73.7
4/8/2008	1:15:00	13.7	297	7.66	6.48	74.1
4/8/2008	1:30:00	13.6	297	7.66	6.43	73.3
4/8/2008	1:45:00	13.6	297	7.67	6.49	73.9
4/8/2008	2:00:00	13.5	294	7.66	6.52	74.1
4/8/2008	2:15:00	13.4	292	7.66	6.48	73.6
4/8/2008	2:30:00	13.4	292	7.66	6.49	73.6
4/8/2008	2:45:00	13.3	296	7.65	6.49	73.5
4/8/2008	3:00:00	13.2	292	7.65	6.48	73.3
4/8/2008	3:15:00	13.2	291	7.66	6.46	72.9
4/8/2008	3:30:00	13.1	273	7.66	6.44	72.7
4/8/2008	3:45:00	13.1	289	7.66	6.44	72.6
4/8/2008	4:00:00	13.1	287	7.65	6.46	72.7
4/8/2008	4:15:00	13.0	290	7.65	6.51	73.2
4/8/2008	4:30:00	13.0	274	7.65	6.48	72.8
4/8/2008	4:45:00	12.9	218	7.65	6.45	72.3
4/8/2008	5:00:00	12.9	178	7.65	6.48	72.6
4/8/2008	5:15:00	12.8	158	7.65	6.49	72.6
4/8/2008	5:30:00	12.8	135	7.65	6.49	72.5
4/8/2008	5:45:00	12.7	125	7.65	6.45	72.0
4/8/2008	6:00:00	12.7	124	7.64	6.47	72.1
4/8/2008	6:15:00	12.6	125	7.65	6.48	72.2
4/8/2008	6:30:00	12.6	123	7.66	6.44	71.7
4/8/2008	6:45:00	12.5	122	7.63	6.54	72.7
4/8/2008	7:00:00	12.5	122	7.64	6.54	72.6
4/8/2008	7:15:00	12.4	122	7.64	6.45	71.5
4/8/2008	7:30:00	12.4	123	7.64	6.55	72.7
4/8/2008	7:45:00	12.4	123	7.64	6.57	72.8
4/8/2008	8:00:00	12.4	122	7.64	6.59	73.0
4/8/2008	8:15:00	12.3	122	7.64	6.62	73.3
4/8/2008	8:30:00	12.3	121	7.63	6.64	73.5
4/8/2008	8:45:00	12.3	121	7.64	6.63	73.4

Table 5.72. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	9:00:00	12.3	120	7.63	6.71	74.2
4/8/2008	9:15:00	12.3	119	7.64	6.64	73.6
4/8/2008	9:30:00	12.4	118	7.63	6.60	73.1
4/8/2008	9:45:00	12.4	118	7.63	6.64	73.6
4/8/2008	10:00:00	12.4	118	7.63	6.56	72.8
4/8/2008	10:15:00	12.5	117	7.63	6.60	73.3
4/8/2008	10:30:00	12.5	117	7.63	6.56	72.9
4/8/2008	10:45:00	12.6	117	7.63	6.60	73.5
4/8/2008	11:00:00	12.7	117	7.63	6.58	73.3
4/8/2008	11:15:00	12.7	117	7.64	6.61	73.9
4/8/2008	11:30:00	12.8	116	7.64	6.60	73.9
4/8/2008	11:45:00	12.9	116	7.64	6.67	74.9
4/8/2008	12:00:00	13.0	117	7.63	6.67	75.0
4/8/2008	12:15:00	13.1	116	7.63	6.71	75.7
4/8/2008	12:30:00	13.2	116	7.64	6.69	75.6
4/8/2008	12:45:00	13.4	116	7.64	6.61	74.8
4/8/2008	13:00:00	13.5	116	7.64	6.71	76.2
4/8/2008	13:15:00	13.6	116	7.64	6.62	75.4
4/8/2008	13:30:00	13.7	115	7.64	6.66	76.1
4/8/2008	13:45:00	13.9	115	7.65	6.61	75.7
4/8/2008	14:00:00	14.0	115	7.64	6.63	76.1
4/8/2008	14:15:00	14.1	115	7.65	6.64	76.5
4/8/2008	14:30:00	14.2	115	7.65	6.68	77.1
4/8/2008	14:45:00	14.3	115	7.64	6.64	76.8
4/8/2008	15:00:00	14.4	115	7.65	6.63	77.0
4/8/2008	15:15:00	14.6	115	7.64	6.70	77.9
4/8/2008	15:30:00	14.7	114	7.65	6.59	76.8
4/8/2008	15:45:00	14.8	115	7.64	6.63	77.4
4/8/2008	16:00:00	14.8	114	7.64	6.61	77.3
4/8/2008	16:15:00	14.9	114	7.64	6.58	77.1
4/8/2008	16:30:00	15.0	114	7.65	6.56	77.0
4/8/2008	16:45:00	15.1	114	7.64	6.54	76.9
4/8/2008	17:00:00	15.1	114	7.65	6.56	77.2
4/8/2008	17:15:00	15.2	114	7.65	6.59	77.6
4/8/2008	17:30:00	15.2	114	7.64	6.56	77.3
4/8/2008	17:45:00	15.2	114	7.65	6.50	76.6
4/8/2008	18:00:00	15.1	114	7.65	6.52	76.8
4/8/2008	18:15:00	15.1	114	7.65	6.53	76.8
4/8/2008	18:30:00	15.1	113	7.65	6.51	76.6
4/8/2008	18:45:00	15.1	113	7.65	6.46	76.0
4/8/2008	19:00:00	15.0	113	7.65	6.52	76.6
4/8/2008	19:15:00	15.0	113	7.66	6.50	76.3
4/8/2008	19:30:00	15.0	113	7.65	6.47	75.9
4/8/2008	19:45:00	15.0	113	7.65	6.44	75.6
4/8/2008	20:00:00	14.9	113	7.65	6.45	75.6

Table 5.72. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	20:15:00	14.9	113	7.65	6.48	75.9
4/8/2008	20:30:00	14.9	113	7.65	6.41	75.1
4/8/2008	20:45:00	14.8	113	7.65	6.47	75.6
4/8/2008	21:00:00	14.8	113	7.65	6.48	75.8
4/8/2008	21:15:00	14.8	113	7.65	6.48	75.7
4/8/2008	21:30:00	14.7	113	7.65	6.38	74.5
4/8/2008	21:45:00	14.7	113	7.64	6.45	75.2
4/8/2008	22:00:00	14.7	113	7.65	6.45	75.1
4/8/2008	22:15:00	14.6	113	7.65	6.45	75.0
4/8/2008	22:30:00	14.6	113	7.65	6.46	75.1
4/8/2008	22:45:00	14.5	113	7.64	6.43	74.7
4/8/2008	23:00:00	14.5	113	7.64	6.45	74.9
4/8/2008	23:15:00	14.4	113	7.64	6.46	74.8
4/8/2008	23:30:00	14.3	113	7.64	6.44	74.5
4/8/2008	23:45:00	14.3	113	7.64	6.50	75.1
4/9/2008	0:00:00	14.2	113	7.64	6.49	74.9
4/9/2008	0:15:00	14.1	113	7.63	6.47	74.5
4/9/2008	0:30:00	14.1	113	7.63	6.43	74.0
4/9/2008	0:45:00	14.0	113	7.63	6.39	73.5
4/9/2008	1:00:00	13.9	114	7.64	6.45	74.1
4/9/2008	1:15:00	13.9	114	7.62	6.42	73.6
4/9/2008	1:30:00	13.8	114	7.63	6.45	73.8
4/9/2008	1:45:00	13.8	113	7.63	6.44	73.6
4/9/2008	2:00:00	13.7	114	7.63	6.46	73.7
4/9/2008	2:15:00	13.7	114	7.63	6.45	73.6
4/9/2008	2:30:00	13.6	114	7.62	6.47	73.8
4/9/2008	2:45:00	13.6	114	7.63	6.46	73.5
4/9/2008	3:00:00	13.5	114	7.62	6.49	73.8
4/9/2008	3:15:00	13.5	114	7.63	6.46	73.3
4/9/2008	3:30:00	13.4	114	7.63	6.49	73.7
4/9/2008	3:45:00	13.4	114	7.63	6.47	73.4
4/9/2008	4:00:00	13.4	114	7.63	6.49	73.5
4/9/2008	4:15:00	13.3	114	7.63	6.44	72.9
4/9/2008	4:30:00	13.3	114	7.62	6.48	73.3
4/9/2008	4:45:00	13.2	114	7.63	6.46	73.0
4/9/2008	5:00:00	13.2	114	7.63	6.40	72.2
4/9/2008	5:15:00	13.2	114	7.62	6.47	73.0
4/9/2008	5:30:00	13.1	114	7.62	6.50	73.3
4/9/2008	5:45:00	13.1	114	7.63	6.46	72.8
4/9/2008	6:00:00	13.1	114	7.62	6.50	73.2
4/9/2008	6:15:00	13.1	114	7.62	6.51	73.3
4/9/2008	6:30:00	13.0	114	7.62	6.47	72.8
4/9/2008	6:45:00	13.0	114	7.63	6.50	73.1
4/9/2008	7:00:00	13.0	114	7.62	6.49	72.9
4/9/2008	7:15:00	12.9	115	7.62	6.53	73.3

Table 5.72. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	7:30:00	12.9	115	7.63	6.53	73.2
4/9/2008	7:45:00	12.9	115	7.62	6.53	73.2
4/9/2008	8:00:00	12.9	114	7.62	6.53	73.1
4/9/2008	8:15:00	12.9	115	7.62	6.58	73.8
4/9/2008	8:30:00	12.9	115	7.62	6.56	73.5
4/9/2008	8:45:00	12.8	115	7.62	6.58	73.7
4/9/2008	9:00:00	12.8	114	7.62	6.55	73.4
4/9/2008	9:15:00	12.8	114	7.62	6.57	73.6
4/9/2008	9:30:00	12.8	114	7.62	6.58	73.7
4/9/2008	9:45:00	12.8	114	7.62	6.54	73.3
4/9/2008	10:00:00	12.8	114	7.62	6.60	73.9
4/9/2008	10:15:00	12.8	114	7.63	6.60	74.0
4/9/2008	10:30:00	12.8	114	7.62	6.59	73.9
4/9/2008	10:45:00	12.9	113	7.64	6.48	72.6
4/9/2008	11:00:00	12.9	112	7.62	6.56	73.6
4/9/2008	11:15:00	12.9	111	7.63	6.33	71.0
4/9/2008	11:30:00	12.9	111	7.69	6.50	72.9
4/9/2008	11:45:00	12.9	111	7.71	6.39	71.7
4/9/2008	12:00:00	13.0	111	7.72	6.43	72.2
4/9/2008	12:15:00	13.0	111	7.70	6.42	72.1
4/9/2008	12:30:00	13.0	111	7.70	6.45	72.5
4/9/2008	12:45:00	13.0	111	7.71	6.57	73.8
4/9/2008	13:00:00	13.0	111	7.70	6.57	73.9
4/9/2008	13:15:00	13.0	111	7.71	6.44	72.4
4/9/2008	13:30:00	13.0	112	7.70	6.57	73.9
4/9/2008	13:45:00	13.0	111	7.70	6.46	72.6
4/9/2008	14:00:00	13.0	111	7.70	6.43	72.3
4/9/2008	14:15:00	13.0	111	7.69	6.58	74.0
4/9/2008	14:30:00	13.0	110	7.69	6.51	73.2
4/9/2008	14:45:00	13.0	110	7.69	6.62	74.4
4/9/2008	15:00:00	13.0	110	7.68	6.66	74.8
4/9/2008	15:15:00	13.0	110	7.68	6.54	73.5
4/9/2008	15:30:00	12.9	110	7.67	6.56	73.6
4/9/2008	15:45:00	12.9	110	7.67	6.69	75.0
4/9/2008	16:00:00	12.9	110	7.67	6.61	74.1
4/9/2008	16:15:00	12.9	110	7.67	6.61	74.1
4/9/2008	16:30:00	12.8	110	7.67	6.66	74.5
4/9/2008	16:45:00	12.8	110	7.66	6.51	72.9
4/9/2008	17:00:00	12.8	110	7.66	6.55	73.2
4/9/2008	17:15:00	12.8	110	7.65	6.56	73.3
4/9/2008	17:30:00	12.8	110	7.65	6.52	72.8
4/9/2008	17:45:00	12.7	110	7.65	6.52	72.8
4/9/2008	18:00:00	12.7	110	7.65	6.58	73.4
4/9/2008	18:15:00	12.7	110	7.65	6.62	73.9
4/9/2008	18:30:00	12.7	111	7.65	6.54	72.9

Table 5.72. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	18:45:00	12.6	111	7.64	6.53	72.8
4/9/2008	19:00:00	12.6	111	7.64	6.52	72.6
4/9/2008	19:15:00	12.6	111	7.64	6.57	73.1
4/9/2008	19:30:00	12.5	111	7.64	6.64	73.9
4/9/2008	19:45:00	12.5	111	7.64	6.59	73.2
4/9/2008	20:00:00	12.5	111	7.65	6.65	73.8
4/9/2008	20:15:00	12.4	111	7.64	6.60	73.2
4/9/2008	20:30:00	12.4	111	7.65	6.62	73.3
4/9/2008	20:45:00	12.3	111	7.63	6.63	73.5
4/9/2008	21:00:00	12.3	111	7.63	6.67	73.8
4/9/2008	21:15:00	12.2	111	7.63	6.64	73.4
4/9/2008	21:30:00	12.2	111	7.62	6.58	72.7
4/9/2008	21:45:00	12.2	111	7.62	6.79	74.9
4/9/2008	22:00:00	12.1	111	7.63	6.66	73.4
4/9/2008	22:15:00	12.1	111	7.64	6.66	73.3
4/9/2008	22:30:00	12.0	111	7.62	6.59	72.4
4/9/2008	22:45:00	11.9	111	7.62	6.54	71.7
4/9/2008	23:00:00	11.9	111	7.62	6.24	68.4
4/9/2008	23:15:00	11.8	111	7.61	5.93	64.9
4/9/2008	23:30:00	11.7	111	7.61	5.76	62.9
4/9/2008	23:45:00	11.7	111	7.61	6.16	67.2
4/10/2008	0:00:00	11.6	111	7.60	6.18	67.4
4/10/2008	0:15:00	11.6	111	7.60	6.28	68.4
4/10/2008	0:30:00	11.6	111	7.60	6.11	66.5
4/10/2008	0:45:00	11.5	111	7.60	6.04	65.6
4/10/2008	1:00:00	11.5	111	7.61	6.18	67.1
4/10/2008	1:15:00	11.4	111	7.61	5.84	63.3
4/10/2008	1:30:00	11.4	111	7.61	5.56	60.2
4/10/2008	1:45:00	11.3	111	7.61	5.60	60.6
4/10/2008	2:00:00	11.3	111	7.62	5.34	57.7
4/10/2008	2:15:00	11.2	111	7.62	5.49	59.3
4/10/2008	2:30:00	11.2	112	7.62	5.27	56.8
4/10/2008	2:45:00	11.1	112	7.62	5.18	55.8
4/10/2008	3:00:00	11.1	112	7.62	5.21	56.0
4/10/2008	3:15:00	11.1	112	7.63	5.48	59.0
4/10/2008	3:30:00	11.0	112	7.62	5.52	59.3
4/10/2008	3:45:00	11.0	111	7.62	5.71	61.3
4/10/2008	4:00:00	10.9	111	7.62	5.79	62.0
4/10/2008	4:15:00	10.8	111	7.61	5.68	60.8
4/10/2008	4:30:00	10.8	111	7.61	3.59	38.4
4/10/2008	4:45:00	10.7	111	7.61	4.47	47.7
4/10/2008	5:00:00	10.7	112	7.61	4.52	48.2
4/10/2008	5:15:00	10.6	111	7.62	3.77	40.2
4/10/2008	5:30:00	10.6	111	7.62	4.37	46.5
4/10/2008	5:45:00	10.5	112	7.62	4.03	42.8

Table 5.72. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/10/2008	6:00:00	10.5	112	7.63	3.74	39.7
4/10/2008	6:15:00	10.4	112	7.63	3.90	41.3
4/10/2008	6:30:00	10.4	112	7.63	4.45	47.1
4/10/2008	6:45:00	10.3	112	7.63	4.79	50.6
4/10/2008	7:00:00	10.2	112	7.62	3.81	40.2
4/10/2008	7:15:00	10.2	112	7.62	4.08	43.0
4/10/2008	7:30:00	10.1	112	7.62	4.39	46.2
4/10/2008	7:45:00	10.1	112	7.61	4.14	43.6
4/10/2008	8:00:00	10.0	112	7.61	4.22	44.4
4/10/2008	8:15:00	10.0	112	7.61	4.56	47.8
4/10/2008	8:30:00	10.0	112	7.62	4.60	48.2
4/10/2008	8:45:00	9.9	112	7.62	4.99	52.2
4/10/2008	9:00:00	9.9	112	7.63	4.43	46.4
4/10/2008	9:15:00	9.9	112	7.63	3.79	39.7
4/10/2008	9:30:00	9.9	112	7.62	3.52	36.9
4/10/2008	9:45:00	9.9	112	7.64	3.79	39.6
4/10/2008	10:00:00	9.9	112	7.63	3.59	37.6
4/10/2008	10:15:00	9.9	112	7.63	3.76	39.3
4/10/2008	10:30:00	10.0	111	7.63	4.06	42.6
4/10/2008	10:45:00	10.0	111	7.64	3.79	39.8

Table 5.73. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45473**	**Name**	**:**	**Nike**
Log File Name			**:**	**site6_4-7-08Nike**
Setup Date (MMDDYY)			**:**	**4/7/2008**
Setup Time (HHMMSS)			**:**	**10:08:42**
Starting Date (MMDDYY)			**:**	**4/7/2008**
Starting Time (HHMMSS)			**:**	**11:00:00**
Stopping Date (MMDDYY)			**:**	**4/11/2008**
Stopping Time (HHMMSS)			**:**	**8:44:49**
Measurement Interval (HHMMSS)			**:**	**1500**
Date (MMDDYYYY)	**Time (HHMMSS)**	**Temperature (C)**	**DO (mg/L)**	**DO Saturation (%)**
4/7/2008	11:45:00	15.0	8.32	97.3
4/7/2008	12:00:00	15.2	8.30	97.6
4/7/2008	12:15:00	15.4	8.29	97.9
4/7/2008	12:30:00	15.5	8.28	97.9
4/7/2008	12:45:00	15.5	8.27	97.8
4/7/2008	13:00:00	15.5	8.27	97.8
4/7/2008	13:15:00	15.6	8.25	97.8
4/7/2008	13:30:00	15.8	8.24	98.1
4/7/2008	13:45:00	16.1	8.22	98.5
4/7/2008	14:00:00	16.3	8.20	98.6
4/7/2008	14:15:00	16.4	8.19	98.8
4/7/2008	14:30:00	16.5	8.18	98.8
4/7/2008	14:45:00	16.6	8.16	98.8
4/7/2008	15:00:00	16.7	8.15	98.9
4/7/2008	15:15:00	16.8	8.13	98.8
4/7/2008	15:30:00	16.7	8.12	98.6
4/7/2008	15:45:00	16.7	8.11	98.4
4/7/2008	16:00:00	16.8	8.10	98.5
4/7/2008	16:15:00	16.8	8.09	98.4
4/7/2008	16:30:00	16.8	8.08	98.3
4/7/2008	16:45:00	16.8	8.06	98.1
4/7/2008	17:00:00	16.8	8.05	97.9
4/7/2008	17:15:00	16.7	8.04	97.5
4/7/2008	17:30:00	16.6	8.04	97.3
4/7/2008	17:45:00	16.5	8.03	97.0
4/7/2008	18:00:00	16.4	8.03	96.7
4/7/2008	18:15:00	16.3	8.02	96.5
4/7/2008	18:30:00	16.2	8.02	96.3
4/7/2008	18:45:00	16.2	8.01	96.1
4/7/2008	19:00:00	16.1	8.01	95.9
4/7/2008	19:15:00	15.9	8.01	95.6
4/7/2008	19:30:00	15.8	8.01	95.3
4/7/2008	19:45:00	15.7	8.02	95.2
4/7/2008	20:00:00	15.5	8.02	94.9
4/7/2008	20:15:00	15.4	8.03	94.7

Table 5.73. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/7/2008	20:30:00	15.3	8.04	94.6
4/7/2008	20:45:00	15.2	8.04	94.5
4/7/2008	21:00:00	15.1	8.05	94.3
4/7/2008	21:15:00	14.9	8.06	94.1
4/7/2008	21:30:00	14.8	8.07	94.0
4/7/2008	21:45:00	14.7	8.08	93.9
4/7/2008	22:00:00	14.5	8.10	93.8
4/7/2008	22:15:00	14.4	8.11	93.7
4/7/2008	22:30:00	14.3	8.13	93.6
4/7/2008	22:45:00	14.2	8.14	93.6
4/7/2008	23:00:00	14.1	8.15	93.6
4/7/2008	23:15:00	14.0	8.16	93.5
4/7/2008	23:30:00	13.9	8.17	93.4
4/7/2008	23:45:00	13.8	8.19	93.3
4/8/2008	0:00:00	13.7	8.20	93.3
4/8/2008	0:15:00	13.6	8.22	93.3
4/8/2008	0:30:00	13.6	8.23	93.2
4/8/2008	0:45:00	13.5	8.24	93.2
4/8/2008	1:00:00	13.4	8.25	93.2
4/8/2008	1:15:00	13.3	8.26	93.1
4/8/2008	1:30:00	13.2	8.27	93.1
4/8/2008	1:45:00	13.2	8.28	93.0
4/8/2008	2:00:00	13.1	8.29	92.9
4/8/2008	2:15:00	13.0	8.30	92.9
4/8/2008	2:30:00	12.9	8.31	92.8
4/8/2008	2:45:00	12.9	8.32	92.9
4/8/2008	3:00:00	12.8	8.33	92.9
4/8/2008	3:15:00	12.8	8.34	92.9
4/8/2008	3:30:00	12.7	8.35	92.8
4/8/2008	3:45:00	12.7	8.35	92.8
4/8/2008	4:00:00	12.6	8.36	92.8
4/8/2008	4:15:00	12.6	8.37	92.8
4/8/2008	4:30:00	12.5	8.38	92.7
4/8/2008	4:45:00	12.5	8.38	92.8
4/8/2008	5:00:00	12.5	8.39	92.8
4/8/2008	5:15:00	12.5	8.39	92.8
4/8/2008	5:30:00	12.4	8.40	92.8
4/8/2008	5:45:00	12.4	8.40	92.8
4/8/2008	6:00:00	12.4	8.41	92.8
4/8/2008	6:15:00	12.4	8.41	92.8
4/8/2008	6:30:00	12.4	8.42	92.9
4/8/2008	6:45:00	12.4	8.43	93.0
4/8/2008	7:00:00	12.4	8.43	93.2
4/8/2008	7:15:00	12.5	8.44	93.4
4/8/2008	7:30:00	12.6	8.44	93.6
4/8/2008	7:45:00	12.7	8.45	93.8

Table 5.73. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	8:00:00	12.8	8.45	94.1
4/8/2008	8:15:00	12.9	8.45	94.4
4/8/2008	8:30:00	13.0	8.46	94.6
4/8/2008	8:45:00	13.1	8.46	94.9
4/8/2008	9:00:00	13.2	8.46	95.1
4/8/2008	9:15:00	13.3	8.46	95.4
4/8/2008	9:30:00	13.5	8.46	95.7
4/8/2008	9:45:00	13.6	8.46	96.0
4/8/2008	10:00:00	13.8	8.46	96.4
4/8/2008	10:15:00	14.0	8.45	96.7
4/8/2008	10:30:00	14.2	8.45	97.1
4/8/2008	10:45:00	14.4	8.45	97.4
4/8/2008	11:00:00	14.5	8.44	97.8
4/8/2008	11:15:00	14.7	8.43	98.1
4/8/2008	11:30:00	14.9	8.42	98.4
4/8/2008	11:45:00	15.2	8.42	98.8
4/8/2008	12:00:00	15.4	8.41	99.1
4/8/2008	12:15:00	15.5	8.39	99.3
4/8/2008	12:30:00	15.7	8.38	99.6
4/8/2008	12:45:00	15.9	8.37	99.8
4/8/2008	13:00:00	16.0	8.36	99.9
4/8/2008	13:15:00	16.2	8.34	100.1
4/8/2008	13:30:00	16.3	8.33	100.2
4/8/2008	13:45:00	16.4	8.31	100.3
4/8/2008	14:00:00	16.5	8.29	100.3
4/8/2008	14:15:00	16.6	8.28	100.3
4/8/2008	14:30:00	16.7	8.26	100.2
4/8/2008	14:45:00	16.8	8.24	100.1
4/8/2008	15:00:00	16.8	8.22	100.0
4/8/2008	15:15:00	16.8	8.21	99.9
4/8/2008	15:30:00	16.8	8.19	99.6
4/8/2008	15:45:00	16.7	8.18	99.3
4/8/2008	16:00:00	16.7	8.17	99.2
4/8/2008	16:15:00	16.7	8.16	98.9
4/8/2008	16:30:00	16.6	8.15	98.7
4/8/2008	16:45:00	16.5	8.13	98.1
4/8/2008	17:00:00	16.3	8.12	97.7
4/8/2008	17:15:00	16.2	8.11	97.3
4/8/2008	17:30:00	16.1	8.10	97.0
4/8/2008	17:45:00	16.0	8.10	96.8
4/8/2008	18:00:00	15.9	8.10	96.5
4/8/2008	18:15:00	15.7	8.09	96.1
4/8/2008	18:30:00	15.6	8.09	95.8
4/8/2008	18:45:00	15.4	8.10	95.5
4/8/2008	19:00:00	15.2	8.10	95.2
4/8/2008	19:15:00	15.1	8.11	95.1

Table 5.73. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/8/2008	19:30:00	15.0	8.12	94.9
4/8/2008	19:45:00	14.9	8.13	94.8
4/8/2008	20:00:00	14.8	8.14	94.7
4/8/2008	20:15:00	14.7	8.15	94.7
4/8/2008	20:30:00	14.6	8.15	94.5
4/8/2008	20:45:00	14.5	8.16	94.4
4/8/2008	21:00:00	14.4	8.17	94.4
4/8/2008	21:15:00	14.3	8.18	94.3
4/8/2008	21:30:00	14.3	8.19	94.3
4/8/2008	21:45:00	14.2	8.20	94.3
4/8/2008	22:00:00	14.2	8.20	94.3
4/8/2008	22:15:00	14.1	8.21	94.3
4/8/2008	22:30:00	14.1	8.22	94.3
4/8/2008	22:45:00	14.0	8.22	94.2
4/8/2008	23:00:00	14.0	8.23	94.1
4/8/2008	23:15:00	13.9	8.23	94.0
4/8/2008	23:30:00	13.8	8.24	93.9
4/8/2008	23:45:00	13.8	8.24	93.8
4/9/2008	0:00:00	13.7	8.25	93.7
4/9/2008	0:15:00	13.6	8.25	93.6
4/9/2008	0:30:00	13.5	8.26	93.5
4/9/2008	0:45:00	13.5	8.27	93.5
4/9/2008	1:00:00	13.4	8.27	93.4
4/9/2008	1:15:00	13.3	8.28	93.4
4/9/2008	1:30:00	13.3	8.28	93.3
4/9/2008	1:45:00	13.3	8.29	93.4
4/9/2008	2:00:00	13.3	8.29	93.4
4/9/2008	2:15:00	13.3	8.29	93.4
4/9/2008	2:30:00	13.2	8.30	93.4
4/9/2008	2:45:00	13.2	8.30	93.3
4/9/2008	3:00:00	13.2	8.30	93.3
4/9/2008	3:15:00	13.2	8.30	93.2
4/9/2008	3:30:00	13.1	8.30	93.2
4/9/2008	3:45:00	13.1	8.30	93.2
4/9/2008	4:00:00	13.1	8.30	93.2
4/9/2008	4:15:00	13.1	8.30	93.1
4/9/2008	4:30:00	13.1	8.31	93.1
4/9/2008	4:45:00	13.0	8.31	93.1
4/9/2008	5:00:00	13.0	8.31	93.0
4/9/2008	5:15:00	12.9	8.31	92.9
4/9/2008	5:30:00	12.9	8.32	92.9
4/9/2008	5:45:00	12.9	8.32	92.9
4/9/2008	6:00:00	12.9	8.33	92.9
4/9/2008	6:15:00	12.8	8.33	92.9
4/9/2008	6:30:00	12.8	8.34	92.9
4/9/2008	6:45:00	12.8	8.34	92.9

Table 5.73. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	7:00:00	12.8	8.35	93.1
4/9/2008	7:15:00	12.8	8.36	93.2
4/9/2008	7:30:00	12.9	8.36	93.3
4/9/2008	7:45:00	12.9	8.37	93.4
4/9/2008	8:00:00	12.9	8.38	93.6
4/9/2008	8:15:00	13.0	8.39	93.9
4/9/2008	8:30:00	13.1	8.39	94.2
4/9/2008	8:45:00	13.3	8.39	94.5
4/9/2008	9:00:00	13.4	8.39	94.6
4/9/2008	9:15:00	13.4	8.38	94.7
4/9/2008	9:30:00	13.5	8.38	94.8
4/9/2008	9:45:00	13.6	8.38	95.0
4/9/2008	10:00:00	13.7	8.38	95.2
4/9/2008	10:15:00	13.8	8.38	95.3
4/9/2008	10:30:00	13.9	8.37	95.5
4/9/2008	10:45:00	14.0	8.37	95.7
4/9/2008	11:00:00	14.0	8.37	95.8
4/9/2008	11:15:00	14.2	8.37	96.1
4/9/2008	11:30:00	14.3	8.36	96.2
4/9/2008	11:45:00	14.3	8.35	96.3
4/9/2008	12:00:00	14.4	8.35	96.3
4/9/2008	12:15:00	14.4	8.34	96.2
4/9/2008	12:30:00	14.3	8.34	96.0
4/9/2008	12:45:00	14.3	8.34	96.0
4/9/2008	13:00:00	14.3	8.33	96.0
4/9/2008	13:15:00	14.3	8.33	95.8
4/9/2008	13:30:00	14.2	8.33	95.8
4/9/2008	13:45:00	14.2	8.33	95.7
4/9/2008	14:00:00	14.1	8.34	95.6
4/9/2008	14:15:00	14.0	8.34	95.4
4/9/2008	14:30:00	13.9	8.34	95.4
4/9/2008	14:45:00	13.9	8.35	95.4
4/9/2008	15:00:00	13.9	8.35	95.4
4/9/2008	15:15:00	13.9	8.35	95.3
4/9/2008	15:30:00	13.9	8.35	95.3
4/9/2008	15:45:00	13.9	8.35	95.2
4/9/2008	16:00:00	13.8	8.35	95.2
4/9/2008	16:15:00	13.8	8.35	95.2
4/9/2008	16:30:00	13.7	8.35	94.9
4/9/2008	16:45:00	13.6	8.35	94.8
4/9/2008	17:00:00	13.6	8.36	94.7
4/9/2008	17:15:00	13.5	8.37	94.7
4/9/2008	17:30:00	13.5	8.37	94.7
4/9/2008	17:45:00	13.4	8.37	94.5
4/9/2008	18:00:00	13.3	8.38	94.4
4/9/2008	18:15:00	13.2	8.38	94.3

Table 5.73. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/9/2008	18:30:00	13.2	8.39	94.2
4/9/2008	18:45:00	13.1	8.40	94.2
4/9/2008	19:00:00	13.0	8.40	94.0
4/9/2008	19:15:00	12.9	8.41	93.9
4/9/2008	19:30:00	12.8	8.41	93.8
4/9/2008	19:45:00	12.8	8.42	93.7
4/9/2008	20:00:00	12.7	8.42	93.6
4/9/2008	20:15:00	12.6	8.43	93.5
4/9/2008	20:30:00	12.5	8.43	93.4
4/9/2008	20:45:00	12.5	8.44	93.4
4/9/2008	21:00:00	12.4	8.45	93.3
4/9/2008	21:15:00	12.4	8.46	93.3
4/9/2008	21:30:00	12.3	8.47	93.4
4/9/2008	21:45:00	12.3	8.47	93.4
4/9/2008	22:00:00	12.3	8.48	93.4
4/9/2008	22:15:00	12.2	8.49	93.4
4/9/2008	22:30:00	12.2	8.50	93.4
4/9/2008	22:45:00	12.2	8.51	93.4
4/9/2008	23:00:00	12.1	8.51	93.4
4/9/2008	23:15:00	12.1	8.52	93.3
4/9/2008	23:30:00	12.0	8.52	93.2
4/9/2008	23:45:00	11.9	8.53	93.2
4/10/2008	0:00:00	11.9	8.54	93.1
4/10/2008	0:15:00	11.8	8.55	93.1
4/10/2008	0:30:00	11.8	8.56	93.1
4/10/2008	0:45:00	11.7	8.56	93.1
4/10/2008	1:00:00	11.7	8.57	93.2
4/10/2008	1:15:00	11.7	8.58	93.2
4/10/2008	1:30:00	11.6	8.59	93.1
4/10/2008	1:45:00	11.5	8.59	93.0
4/10/2008	2:00:00	11.5	8.60	93.0
4/10/2008	2:15:00	11.4	8.61	92.9
4/10/2008	2:30:00	11.3	8.62	92.8
4/10/2008	2:45:00	11.2	8.62	92.7
4/10/2008	3:00:00	11.1	8.63	92.6
4/10/2008	3:15:00	11.1	8.64	92.5
4/10/2008	3:30:00	11.0	8.65	92.5
4/10/2008	3:45:00	10.9	8.67	92.5
4/10/2008	4:00:00	10.9	8.68	92.5
4/10/2008	4:15:00	10.9	8.69	92.6
4/10/2008	4:30:00	10.8	8.69	92.6
4/10/2008	4:45:00	10.8	8.70	92.6
4/10/2008	5:00:00	10.8	8.71	92.6
4/10/2008	5:15:00	10.7	8.71	92.6
4/10/2008	5:30:00	10.7	8.72	92.6
4/10/2008	5:45:00	10.7	8.72	92.5

Table 5.73. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during April 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

4/10/2008	6:00:00	10.6	8.73	92.5
4/10/2008	6:15:00	10.6	8.74	92.5
4/10/2008	6:30:00	10.6	8.75	92.5
4/10/2008	6:45:00	10.5	8.76	92.6
4/10/2008	7:00:00	10.5	8.77	92.7
4/10/2008	7:15:00	10.5	8.78	92.9
4/10/2008	7:30:00	10.6	8.79	93.0
4/10/2008	7:45:00	10.6	8.80	93.2
4/10/2008	8:00:00	10.6	8.81	93.4
4/10/2008	8:15:00	10.7	8.82	93.6
4/10/2008	8:30:00	10.8	8.83	93.9
4/10/2008	8:45:00	10.8	8.84	94.1
4/10/2008	9:00:00	10.9	8.84	94.3
4/10/2008	9:15:00	11.0	8.85	94.7
4/10/2008	9:30:00	11.2	8.86	95.0
4/10/2008	9:45:00	11.3	8.86	95.3
4/10/2008	10:00:00	11.4	8.86	95.6
4/10/2008	10:15:00	11.5	8.87	96.0
4/10/2008	10:30:00	11.6	8.87	96.2
4/10/2008	10:45:00	11.7	8.88	96.6
4/10/2008	11:00:00	11.9	8.88	96.8
4/10/2008	11:15:00	12.0	8.88	97.1

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**SITE1-7-11-08**
Setup	**Date**	**(MMDDYY)**	**:**	**7/11/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**134058**
Starting	**Date**	**(MMDDYY)**	**:**	**7/11/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**140000**
Stopping	**Date**	**(MMDDYY)**	**:**	**7/17/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**110000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
7/11/2008	14:00:00	21.4	266	7.74	7.24	97.6
7/11/2008	14:15:00	21.6	266	7.79	7.04	95.3
7/11/2008	14:30:00	21.8	244**	7.80	7.04	95.6
7/11/2008	14:45:00	21.9	181**	7.83	7.08	96.3
7/11/2008	15:00:00	22.1	74.4**	7.82	7.04	96.0
7/11/2008	15:15:00	22.3	56.1**	7.85	7.03	96.3
7/11/2008	15:30:00	22.4	28.7**	7.85	7.00	96.2
7/11/2008	15:45:00	22.6	27.9**	7.86	6.93	95.4
7/11/2008	16:00:00	22.6	11.6**	7.88	7.00	96.5
7/11/2008	16:15:00	22.6	0.6**	7.89	7.01	96.5
7/11/2008	16:30:00	22.5	82.3**	7.88	7.05	96.9
7/11/2008	16:45:00	22.4	51.0**	7.88	6.96	95.6
7/11/2008	17:00:00	22.4	38.5**	7.89	6.87	94.3
7/11/2008	17:15:00	22.4	21.6**	7.89	6.88	94.3
7/11/2008	17:30:00	22.3	18.1**	7.92	6.86	94.0
7/11/2008	17:45:00	22.3	12.0**	7.90	6.82	93.4
7/11/2008	18:00:00	22.3	12.2**	7.91	6.81	93.2
7/11/2008	18:15:00	22.3	5.0**	7.92	6.73	92.2
7/11/2008	18:30:00	22.3	6.9**	7.93	6.68	91.5
7/11/2008	18:45:00	22.3	6.6**	7.94	6.64	91.0
7/11/2008	19:00:00	22.3	4.1**	7.95	6.70	91.7
7/11/2008	19:15:00	22.3	5.5**	7.94	6.68	91.5
7/11/2008	19:30:00	22.3	2.2**	7.97	6.62	90.7
7/11/2008	19:45:00	22.3	2.0**	7.98	6.67	91.3
7/11/2008	20:00:00	22.3	3.1**	7.99	6.61	90.5
7/11/2008	20:15:00	22.3	2.4**	8.00	6.56	89.9
7/11/2008	20:30:00	22.3	1.4**	8.01	6.59	90.3
7/11/2008	20:45:00	22.3	1.4**	8.01	6.54	89.6
7/11/2008	21:00:00	22.3	1.4**	8.03	6.54	89.7
7/11/2008	21:15:00	22.3	1.0**	8.03	6.55	89.7
7/11/2008	21:30:00	22.3	1.7**	8.03	6.53	89.5
7/11/2008	21:45:00	22.3	0.6**	8.03	6.54	89.5

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/11/2008	22:00:00	22.3	0.4**	8.04	6.55	89.7
7/11/2008	22:15:00	22.2	0.7**	8.04	6.52	89.3
7/11/2008	22:30:00	22.2	0.4**	8.04	6.46	88.4
7/11/2008	22:45:00	22.2	0.3**	8.03	6.42	87.7
7/11/2008	23:00:00	22.1	0.3**	8.03	6.43	87.8
7/11/2008	23:15:00	22.1	0.4**	8.03	6.39	87.3
7/11/2008	23:30:00	22.1	0.4**	8.04	6.42	87.6
7/11/2008	23:45:00	22.0	0.4**	8.04	6.39	87.1
7/12/2008	0:00:00	22.0	0.3**	8.04	6.41	87.2
7/12/2008	0:15:00	21.9	0.4**	8.05	6.41	87.2
7/12/2008	0:30:00	21.9	0.3**	8.05	6.34	86.2
7/12/2008	0:45:00	21.9	0.1**	8.04	6.39	86.8
7/12/2008	1:00:00	21.8	0.4**	8.04	6.43	87.3
7/12/2008	1:15:00	21.8	0.3**	8.04	6.35	86.1
7/12/2008	1:30:00	21.7	0.1**	8.04	6.39	86.5
7/12/2008	1:45:00	21.7	0.1**	8.03	6.42	86.9
7/12/2008	2:00:00	21.6	0.3**	8.03	6.40	86.6
7/12/2008	2:15:00	21.6	0.3**	8.02	6.42	86.8
7/12/2008	2:30:00	21.6	0.1**	8.02	6.44	87.0
7/12/2008	2:45:00	21.5	0.3**	8.02	6.36	85.9
7/12/2008	3:00:00	21.5	0.1**	8.01	6.46	87.1
7/12/2008	3:15:00	21.4	0.1**	8.00	6.38	85.9
7/12/2008	3:30:00	21.4	0.1**	8.00	6.38	85.9
7/12/2008	3:45:00	21.3	0.3**	7.98	6.37	85.6
7/12/2008	4:00:00	21.2	0.1**	7.97	6.44	86.4
7/12/2008	4:15:00	21.1	0.1**	7.95	6.45	86.3
7/12/2008	4:30:00	21.1	0.1**	7.93	6.39	85.5
7/12/2008	4:45:00	21.0	0.4**	7.92	6.44	86.0
7/12/2008	5:00:00	20.9	0.4**	7.90	6.41	85.4
7/12/2008	5:15:00	20.8	0.4**	7.88	6.40	85.1
7/12/2008	5:30:00	20.7	0.3**	7.88	6.51	86.4
7/12/2008	5:45:00	20.6	0.3**	7.84	6.49	86.0
7/12/2008	6:00:00	20.5	0.3**	7.82	6.49	85.8
7/12/2008	6:15:00	20.3	0.4**	7.81	6.51	85.8
7/12/2008	6:30:00	20.2	0.3**	7.79	6.49	85.3
7/12/2008	6:45:00	20.1	0.4**	7.77	6.54	85.8
7/12/2008	7:00:00	20.0	0.4**	7.76	6.52	85.4
7/12/2008	7:15:00	19.8	0.1**	7.75	6.58	85.9
7/12/2008	7:30:00	19.7	0.3**	7.75	6.64	86.5
7/12/2008	7:45:00	19.7	0.3**	7.72	6.64	86.4
7/12/2008	8:00:00	19.6	0.3**	7.73	6.63	86.1
7/12/2008	8:15:00	19.6	0.1**	7.72	6.73	87.4
7/12/2008	8:30:00	19.5	0.3**	7.72	6.74	87.5
7/12/2008	8:45:00	19.5	0.3**	7.72	6.79	88.2
7/12/2008	9:00:00	19.6	0.3**	7.73	6.83	88.7
7/12/2008	9:15:00	19.6	0.1**	7.72	6.81	88.5

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/12/2008	9:30:00	19.7	0.1**	7.73	6.95	90.6
7/12/2008	9:45:00	19.8	0.1**	7.74	6.94	90.5
7/12/2008	10:00:00	19.9	3.5**	7.74	6.90	90.2
7/12/2008	10:15:00	20.0	4.3**	7.75	6.96	91.2
7/12/2008	10:30:00	20.1	2.1**	7.75	7.05	92.6
7/12/2008	10:45:00	20.2	1.4**	7.76	7.02	92.4
7/12/2008	11:00:00	20.4	0.7**	7.78	6.99	92.3
7/12/2008	11:15:00	20.5	1.2**	7.79	6.96	92.1
7/12/2008	11:30:00	20.7	0.6**	7.79	7.07	93.9
7/12/2008	11:45:00	20.8	0.4**	7.80	7.11	94.7
7/12/2008	12:00:00	21.0	0.4**	7.79	7.12	95.1
7/12/2008	12:15:00	21.2	0.4**	7.80	7.09	95.1
7/12/2008	12:30:00	21.3	0.3**	7.81	7.04	94.7
7/12/2008	12:45:00	21.5	0.3**	7.83	6.96	93.9
7/12/2008	13:00:00	21.6	0.3**	7.83	7.05	95.4
7/12/2008	13:15:00	21.8	0.1**	7.83	7.09	96.1
7/12/2008	13:30:00	21.9	0.3**	7.85	7.09	96.5
7/12/2008	13:45:00	22.1	0.1**	7.85	7.08	96.6
7/12/2008	14:00:00	22.2	0.1**	7.86	7.01	96.0
7/12/2008	14:15:00	22.5	0.1**	7.88	7.00	96.2
7/12/2008	14:30:00	22.6	0**	7.88	6.99	96.4
7/12/2008	14:45:00	22.6	0.1**	7.89	6.99	96.4
7/12/2008	15:00:00	22.7	0.1**	7.90	7.04	97.2
7/12/2008	15:15:00	22.7	18.5**	7.90	7.00	96.7
7/12/2008	15:30:00	22.7	21.3**	7.90	6.91	95.4
7/12/2008	15:45:00	22.7	16.1**	7.92	6.92	95.5
7/12/2008	16:00:00	22.6	16.3**	7.92	6.97	96.1
7/12/2008	16:15:00	22.6	12.6**	7.92	6.90	95.0
7/12/2008	16:30:00	22.6	14.9**	7.93	6.96	95.8
7/12/2008	16:45:00	22.6	13.2**	7.92	6.88	94.8
7/12/2008	17:00:00	22.7	8.1**	7.94	6.88	95.0
7/12/2008	17:15:00	22.8	6.9**	7.95	6.91	95.7
7/12/2008	17:30:00	22.9	6.0**	7.96	6.80	94.3
7/12/2008	17:45:00	23.1	6.3**	7.99	6.87	95.7
7/12/2008	18:00:00	23.2	5.3**	8.00	6.87	95.8
7/12/2008	18:15:00	23.3	4.8**	8.01	6.79	95.0
7/12/2008	18:30:00	23.4	2.0**	8.01	6.73	94.2
7/12/2008	18:45:00	23.4	3.0**	8.02	6.72	94.0
7/12/2008	19:00:00	23.3	1.7**	8.02	6.70	93.7
7/12/2008	19:15:00	23.3	0.8**	8.02	6.68	93.2
7/12/2008	19:30:00	23.2	0.7**	8.03	6.63	92.4
7/12/2008	19:45:00	23.1	1.3**	8.03	6.62	92.1
7/12/2008	20:00:00	23.1	0.6**	8.06	6.55	91.1
7/12/2008	20:15:00	23.1	0.6**	8.05	6.50	90.4
7/12/2008	20:30:00	23.1	0.4**	8.06	6.57	91.3
7/12/2008	20:45:00	23.1	0.8**	8.07	6.46	89.9

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/12/2008	21:00:00	23.1	0.6**	8.07	6.42	89.3
7/12/2008	21:15:00	23.1	0.4**	8.08	6.40	89.0
7/12/2008	21:30:00	23.1	0.4**	8.09	6.38	88.7
7/12/2008	21:45:00	23.1	0.4**	8.09	6.33	88.1
7/12/2008	22:00:00	23.1	0.3**	8.09	6.30	87.6
7/12/2008	22:15:00	23.1	0.4**	8.10	6.34	88.2
7/12/2008	22:30:00	23.1	0.3**	8.11	6.27	87.2
7/12/2008	22:45:00	23.1	0.4**	8.13	6.27	87.2
7/12/2008	23:00:00	23.1	0.3**	8.12	6.19	86.1
7/12/2008	23:15:00	23.0	0.3**	8.13	6.20	86.2
7/12/2008	23:30:00	23.0	0.3**	8.14	6.21	86.3
7/12/2008	23:45:00	23.0	0.1**	8.14	6.24	86.6
7/13/2008	0:00:00	23.0	0.4**	8.14	6.19	85.9
7/13/2008	0:15:00	23.0	0.4**	8.15	6.26	86.9
7/13/2008	0:30:00	22.9	0.3**	8.15	6.09	84.4
7/13/2008	0:45:00	22.8	0.3**	8.15	6.19	85.7
7/13/2008	1:00:00	22.8	0.3**	8.14	6.14	84.9
7/13/2008	1:15:00	22.7	0.1**	8.14	6.20	85.6
7/13/2008	1:30:00	22.6	0.3**	8.13	6.17	85.1
7/13/2008	1:45:00	22.6	0.3**	8.12	6.19	85.2
7/13/2008	2:00:00	22.5	0.1**	8.11	6.22	85.5
7/13/2008	2:15:00	22.4	0.1**	8.11	6.19	85.0
7/13/2008	2:30:00	22.3	0.3**	8.08	6.17	84.6
7/13/2008	2:45:00	22.2	0.3**	8.08	6.22	85.1
7/13/2008	3:00:00	22.1	0.3**	8.06	6.23	85.1
7/13/2008	3:15:00	22.1	0.1**	8.05	6.24	85.1
7/13/2008	3:30:00	22.0	0.3**	8.04	6.21	84.6
7/13/2008	3:45:00	21.9	0.3**	8.02	6.21	84.4
7/13/2008	4:00:00	21.8	0.1**	8.01	6.26	84.9
7/13/2008	4:15:00	21.7	0.1**	8.00	6.29	85.1
7/13/2008	4:30:00	21.5	0.4**	7.97	6.32	85.4
7/13/2008	4:45:00	21.4	0.04**	7.97	6.32	85.2
7/13/2008	5:00:00	21.3	0.3**	7.94	6.41	86.1
7/13/2008	5:15:00	21.2	0.3**	7.94	6.31	84.6
7/13/2008	5:30:00	21.1	0.1**	7.92	6.32	84.6
7/13/2008	5:45:00	21.0	0.1**	7.90	6.37	85.1
7/13/2008	6:00:00	20.9	0.3**	7.88	6.34	84.6
7/13/2008	6:15:00	20.8	0.1**	7.87	6.42	85.5
7/13/2008	6:30:00	20.7	0.1**	7.86	6.42	85.3
7/13/2008	6:45:00	20.6	0.3**	7.85	6.44	85.4
7/13/2008	7:00:00	20.5	0.3**	7.83	6.51	86.2
7/13/2008	7:15:00	20.4	0.1**	7.82	6.47	85.5
7/13/2008	7:30:00	20.3	0.1**	7.80	6.44	84.9
7/13/2008	7:45:00	20.2	0.1**	7.79	6.50	85.6
7/13/2008	8:00:00	20.1	31.4**	7.78	6.54	85.9
7/13/2008	8:15:00	20.1	31.4**	7.77	6.47	84.8

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/13/2008	8:30:00	20.0	28.1**	7.76	6.58	86.1
7/13/2008	8:45:00	19.9	28.4**	7.75	6.66	87.0
7/13/2008	9:00:00	19.8	29.5**	7.75	6.63	86.5
7/13/2008	9:15:00	19.7	26.3**	7.74	6.67	86.9
7/13/2008	9:30:00	19.7	27.7**	7.74	6.67	86.8
7/13/2008	9:45:00	19.6	25.9**	7.74	6.76	87.9
7/13/2008	10:00:00	19.6	25.4**	7.73	6.79	88.3
7/13/2008	10:15:00	19.6	27.4**	7.73	6.78	88.2
7/13/2008	10:30:00	19.6	23.2**	7.75	6.81	88.5
7/13/2008	10:45:00	19.6	24.2**	7.75	6.85	89.1
7/13/2008	11:00:00	19.7	23.4**	7.76	6.91	89.9
7/13/2008	11:15:00	19.7	22**	7.75	6.89	89.7
7/13/2008	11:30:00	19.7	21.9**	7.76	6.95	90.5
7/13/2008	11:45:00	19.8	17.4**	7.76	6.98	91.0
7/13/2008	12:00:00	19.9	20.2**	7.77	6.96	90.9
7/13/2008	12:15:00	20.0	15.6**	7.78	6.95	91.0
7/13/2008	12:30:00	20.2	18.8**	7.79	6.93	91.2
7/13/2008	12:45:00	20.4	12.6**	7.80	6.97	92.0
7/13/2008	13:00:00	20.6	12.2**	7.81	7.01	92.9
7/13/2008	13:15:00	20.8	10.4**	7.82	7.05	93.8
7/13/2008	13:30:00	20.9	10**	7.82	7.04	93.8
7/13/2008	13:45:00	21.1	6.7**	7.83	7.01	93.8
7/13/2008	14:00:00	21.3	7.0**	7.85	7.05	94.6
7/13/2008	14:15:00	21.5	4.7**	7.86	6.97	94.0
7/13/2008	14:30:00	21.6	4.7**	7.86	7.01	94.8
7/13/2008	14:45:00	21.8	1.3**	7.88	7.01	95.0
7/13/2008	15:00:00	21.9	1.0**	7.89	7.08	96.2
7/13/2008	15:15:00	21.9	0.7**	7.89	6.95	94.5
7/13/2008	15:30:00	22.0	0.7**	7.89	7.04	95.8
7/13/2008	15:45:00	22.0	0.4**	7.91	6.99	95.2
7/13/2008	16:00:00	22.1	0.7**	7.92	7.01	95.8
7/13/2008	16:15:00	22.3	0.4**	7.92	7.00	95.8
7/13/2008	16:30:00	22.3	0.4**	7.93	6.91	94.8
7/13/2008	16:45:00	22.3	0.3**	7.93	7.00	96.0
7/13/2008	17:00:00	22.4	0.4**	7.94	7.00	96.1
7/13/2008	17:15:00	22.4	0.3**	7.95	6.87	94.4
7/13/2008	17:30:00	22.5	0.1**	7.95	6.93	95.3
7/13/2008	17:45:00	22.6	0.3**	7.96	6.86	94.5
7/13/2008	18:00:00	22.6	0.1**	7.97	6.88	94.8
7/13/2008	18:15:00	22.6	0.1**	7.97	6.88	94.7
7/13/2008	18:30:00	22.5	0.3**	7.98	6.83	94.0
7/13/2008	18:45:00	22.5	0.3**	7.99	6.87	94.5
7/13/2008	19:00:00	22.4	0.4**	8.00	6.84	94.0
7/13/2008	19:15:00	22.4	0.1**	8.01	6.80	93.3
7/13/2008	19:30:00	22.3	0.1**	8.01	6.75	92.5
7/13/2008	19:45:00	22.3	0.1**	8.03	6.77	92.6

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/13/2008	20:00:00	22.2	0.1**	8.03	6.71	91.8
7/13/2008	20:15:00	22.2	0.1**	8.03	6.64	90.8
7/13/2008	20:30:00	22.2	0.1**	8.04	6.60	90.2
7/13/2008	20:45:00	22.2	0.1**	8.05	6.54	89.4
7/13/2008	21:00:00	22.1	42.8**	8.05	6.53	89.3
7/13/2008	21:15:00	22.1	39.6**	8.05	6.58	89.9
7/13/2008	21:30:00	22.1	38.4**	8.05	6.49	88.6
7/13/2008	21:45:00	22.1	41.1**	8.06	6.47	88.3
7/13/2008	22:00:00	22.1	37.2**	8.06	6.39	87.2
7/13/2008	22:15:00	22.1	39.8**	8.07	6.41	87.5
7/13/2008	22:30:00	22.1	41.5**	8.07	6.34	86.6
7/13/2008	22:45:00	22.1	37.0**	8.08	6.29	85.8
7/13/2008	23:00:00	22.1	37.6**	8.08	6.24	85.1
7/13/2008	23:15:00	22.1	35.1**	8.07	6.26	85.4
7/13/2008	23:30:00	22.1	34.5**	8.08	6.32	86.3
7/13/2008	23:45:00	22.1	34.3**	8.08	6.23	85.2
7/14/2008	0:00:00	22.2	31.5**	8.08	6.29	86.0
7/14/2008	0:15:00	22.2	33.4**	8.07	6.18	84.4
7/14/2008	0:30:00	22.2	30.5**	8.07	6.30	86.1
7/14/2008	0:45:00	22.1	32.7**	8.07	6.28	85.8
7/14/2008	1:00:00	22.1	29.8**	8.07	6.24	85.2
7/14/2008	1:15:00	22.1	33.8**	8.07	6.17	84.1
7/14/2008	1:30:00	22.0	41.4**	8.08	6.16	83.9
7/14/2008	1:45:00	22.0	35.6**	8.07	6.13	83.5
7/14/2008	2:00:00	22.0	36.3**	8.08	6.12	83.4
7/14/2008	2:15:00	21.9	33.2**	8.08	6.14	83.6
7/14/2008	2:30:00	21.9	36.7**	8.08	6.14	83.5
7/14/2008	2:45:00	21.9	36.3**	8.07	6.15	83.6
7/14/2008	3:00:00	21.8	34.1**	8.08	6.11	83.0
7/14/2008	3:15:00	21.8	38.9**	8.07	6.18	83.9
7/14/2008	3:30:00	21.8	36.7**	8.05	6.21	84.2
7/14/2008	3:45:00	21.7	35.6**	8.06	6.25	84.8
7/14/2008	4:00:00	21.7	31.7**	8.05	6.21	84.1
7/14/2008	4:15:00	21.7	29.8**	8.04	6.25	84.5
7/14/2008	4:30:00	21.6	27.6**	8.03	6.09	82.4
7/14/2008	4:45:00	21.6	32.2**	8.02	6.15	83.0
7/14/2008	5:00:00	21.5	30.2**	8.01	6.18	83.4
7/14/2008	5:15:00	21.4	31.1**	7.99	6.17	83.1
7/14/2008	5:30:00	21.3	30.1**	7.98	6.12	82.3
7/14/2008	5:45:00	21.3	29.0**	7.96	6.19	83.1
7/14/2008	6:00:00	21.2	27.4**	7.95	6.16	82.5
7/14/2008	6:15:00	21.1	28.4**	7.93	6.20	82.9
7/14/2008	6:30:00	21.0	27.0**	7.91	6.26	83.6
7/14/2008	6:45:00	20.9	24.9**	7.90	6.28	83.7
7/14/2008	7:00:00	20.8	24.4**	7.89	6.25	83.2
7/14/2008	7:15:00	20.7	22.6**	7.87	6.29	83.5

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/14/2008	7:30:00	20.6	20.4**	7.85	6.35	84.3
7/14/2008	7:45:00	20.5	20.0**	7.84	6.35	84.1
7/14/2008	8:00:00	20.5	18.2**	7.82	6.32	83.7
7/14/2008	8:15:00	20.4	18.0**	7.82	6.33	83.6
7/14/2008	8:30:00	20.4	15.8**	7.80	6.34	83.7
7/14/2008	8:45:00	20.4	13.7**	7.79	6.35	83.8
7/14/2008	9:00:00	20.3	13.3**	7.79	6.43	84.8
7/14/2008	9:15:00	20.3	12.2**	7.77	6.37	84.0
7/14/2008	9:30:00	20.3	9.1**	7.77	6.40	84.3
7/14/2008	9:45:00	20.3	9.4**	7.77	6.44	84.9
7/14/2008	10:00:00	20.3	6.9**	7.75	6.42	84.6
7/14/2008	10:15:00	20.3	6.5**	7.76	6.46	85.1
7/14/2008	10:30:00	20.3	5.8**	7.75	6.46	85.2
7/14/2008	10:45:00	20.4	4.6**	7.74	6.50	85.8
7/14/2008	11:00:00	20.5	3.2**	7.75	6.47	85.6
7/14/2008	11:15:00	20.5	2.1**	7.74	6.52	86.3
7/14/2008	11:30:00	20.7	1.8**	7.75	6.52	86.6
7/14/2008	11:45:00	20.8	1.4**	7.74	6.57	87.4
7/14/2008	12:00:00	20.9	0.8**	7.74	6.56	87.5
7/14/2008	12:15:00	21.0	0.7**	7.76	6.60	88.1
7/14/2008	12:30:00	21.1	0.7**	7.76	6.63	88.8
7/14/2008	12:45:00	21.2	0.4**	7.76	6.49	87.1
7/14/2008	13:00:00	21.3	2.4**	7.77	6.59	88.5
7/14/2008	13:15:00	21.5	2.6**	7.77	6.57	88.5
7/14/2008	13:30:00	21.7	2.7**	7.78	6.64	89.8
7/14/2008	13:45:00	21.8	2.0**	7.78	6.50	88.2
7/14/2008	14:00:00	22.0	1.1**	7.79	6.59	89.9
7/14/2008	14:15:00	22.2	1.0**	7.80	6.66	91.0
7/14/2008	14:30:00	22.4	0.7**	7.81	6.61	90.7
7/14/2008	14:45:00	22.5	0.7**	7.82	6.56	90.2
7/14/2008	15:00:00	22.5	0.6**	7.82	6.61	90.8
7/14/2008	15:15:00	22.5	0.4**	7.83	6.63	91.2
7/14/2008	15:30:00	22.5	0.4**	7.84	6.56	90.1
7/14/2008	15:45:00	22.4	0.3**	7.85	6.55	89.9
7/14/2008	16:00:00	22.4	9.8**	7.86	6.60	90.5
7/14/2008	16:15:00	22.3	8.1**	7.87	6.57	90.1
7/14/2008	16:30:00	22.3	7.4**	7.87	6.49	88.9
7/14/2008	16:45:00	22.3	7.0**	7.87	6.50	89.0
7/14/2008	17:00:00	22.2	6.0**	7.90	6.51	89.1
7/14/2008	17:15:00	22.2	4.6**	7.89	6.52	89.1
7/14/2008	17:30:00	22.1	5.7**	7.90	6.52	88.9
7/14/2008	17:45:00	22.1	3.1**	7.90	6.52	89.0
7/14/2008	18:00:00	22.2	2.4**	7.92	6.43	87.8
7/14/2008	18:15:00	22.2	1.8**	7.93	6.51	89.0
7/14/2008	18:30:00	22.2	1.0**	7.93	6.41	87.6
7/14/2008	18:45:00	22.2	1.3**	7.95	6.54	89.5

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/14/2008	19:00:00	22.3	0.8**	7.95	6.50	89.0
7/14/2008	19:15:00	22.3	1.0**	7.97	6.44	88.2
7/14/2008	19:30:00	22.3	0.7**	7.98	6.46	88.5
7/14/2008	19:45:00	22.3	0.7**	7.99	6.38	87.4
7/14/2008	20:00:00	22.3	0.6**	8.01	6.38	87.4
7/14/2008	20:15:00	22.3	0.4**	8.01	6.44	88.2
7/14/2008	20:30:00	22.3	0.6**	8.02	6.35	87.0
7/14/2008	20:45:00	22.3	0.6**	8.03	6.31	86.5
7/14/2008	21:00:00	22.3	0.7**	8.02	6.24	85.4
7/14/2008	21:15:00	22.3	0.6**	8.04	6.31	86.3
7/14/2008	21:30:00	22.3	0.4**	8.03	6.19	84.8
7/14/2008	21:45:00	22.3	0.6**	8.05	6.20	85.0
7/14/2008	22:00:00	22.3	0.6**	8.04	6.18	84.6
7/14/2008	22:15:00	22.3	0.6**	8.05	6.24	85.5
7/14/2008	22:30:00	22.3	0.4**	8.05	6.18	84.7
7/14/2008	22:45:00	22.3	0.4**	8.06	6.21	85.1
7/14/2008	23:00:00	22.3	0.4**	8.06	6.15	84.2
7/14/2008	23:15:00	22.2	0.6**	8.07	6.21	85.0
7/14/2008	23:30:00	22.2	0.4**	8.07	6.18	84.5
7/14/2008	23:45:00	22.2	0.4**	8.09	6.16	84.1
7/15/2008	0:00:00	22.2	0.3**	8.08	6.00	81.9
7/15/2008	0:15:00	22.1	0.3**	8.08	6.13	83.7
7/15/2008	0:30:00	22.1	0.4**	8.09	6.12	83.5
7/15/2008	0:45:00	22.1	0.4**	8.09	6.13	83.7
7/15/2008	1:00:00	22.1	0.4**	8.10	6.03	82.2
7/15/2008	1:15:00	22.0	0.4**	8.09	6.14	83.7
7/15/2008	1:30:00	22.0	0.6**	8.08	6.05	82.4
7/15/2008	1:45:00	21.9	0.6**	8.09	6.05	82.4
7/15/2008	2:00:00	21.9	0.3**	8.09	6.11	83.1
7/15/2008	2:15:00	21.9	0.4**	8.07	6.09	82.7
7/15/2008	2:30:00	21.8	0.6**	8.07	6.11	82.9
7/15/2008	2:45:00	21.8	0.6**	8.07	6.13	83.1
7/15/2008	3:00:00	21.7	0.6**	8.07	6.11	82.8
7/15/2008	3:15:00	21.7	0.4**	8.04	6.18	83.7
7/15/2008	3:30:00	21.6	0.4**	8.04	6.08	82.2
7/15/2008	3:45:00	21.5	0.7**	8.02	6.07	81.9
7/15/2008	4:00:00	21.5	0.4**	8.03	6.19	83.4
7/15/2008	4:15:00	21.4	0.6**	8.00	6.13	82.5
7/15/2008	4:30:00	21.3	0.6**	7.98	6.16	82.8
7/15/2008	4:45:00	21.2	0.4**	7.96	6.13	82.2
7/15/2008	5:00:00	21.1	0.6**	7.95	6.19	82.8
7/15/2008	5:15:00	21.0	0.4**	7.94	6.23	83.2
7/15/2008	5:30:00	20.9	0.4**	7.92	6.22	82.9
7/15/2008	5:45:00	20.7	0.6**	7.90	6.17	82.0
7/15/2008	6:00:00	20.6	0.6**	7.88	6.27	83.1
7/15/2008	6:15:00	20.5	0.7**	7.87	6.22	82.3

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/15/2008	6:30:00	20.4	0.6**	7.84	6.33	83.5
7/15/2008	6:45:00	20.2	0.7**	7.84	6.31	83.0
7/15/2008	7:00:00	20.1	0.7**	7.81	6.32	82.9
7/15/2008	7:15:00	20.0	0.7**	7.81	6.33	83.0
7/15/2008	7:30:00	19.9	0.6**	7.78	6.35	83.1
7/15/2008	7:45:00	19.9	0.6**	7.77	6.41	83.7
7/15/2008	8:00:00	19.8	0.7**	7.76	6.40	83.5
7/15/2008	8:15:00	19.8	0.7**	7.76	6.45	84.2
7/15/2008	8:30:00	19.8	0.7**	7.74	6.47	84.3
7/15/2008	8:45:00	19.8	0.7**	7.75	6.45	84.1
7/15/2008	9:00:00	19.8	0.7**	7.75	6.50	84.8
7/15/2008	9:15:00	19.9	0.6**	7.74	6.52	85.2
7/15/2008	9:30:00	19.9	0.6**	7.73	6.61	86.4
7/15/2008	9:45:00	20.0	0.6**	7.73	6.59	86.4
7/15/2008	10:00:00	20.1	0.7**	7.74	6.59	86.5
7/15/2008	10:15:00	20.2	0.4**	7.75	6.67	87.7
7/15/2008	10:30:00	20.4	0.4**	7.75	6.63	87.4
7/15/2008	10:45:00	20.5	0.6**	7.76	6.66	88.0
7/15/2008	11:00:00	20.6	0.4**	7.76	6.62	87.9
7/15/2008	11:15:00	20.8	0.4**	7.77	6.68	88.8
7/15/2008	11:30:00	20.9	0.4**	7.77	6.74	90.0
7/15/2008	11:45:00	21.1	0.4**	7.77	6.73	90.1
7/15/2008	12:00:00	21.3	0.4**	7.78	6.72	90.3
7/15/2008	12:15:00	21.4	0.3**	7.78	6.74	90.8
7/15/2008	12:30:00	21.6	0.3**	7.79	6.69	90.5
7/15/2008	12:45:00	21.8	0.3**	7.80	6.74	91.4
7/15/2008	13:00:00	22.0	0.3**	7.81	6.69	91.0
7/15/2008	13:15:00	22.1	0.3**	7.81	6.70	91.5
7/15/2008	13:30:00	22.3	0.4**	7.82	6.75	92.5
7/15/2008	13:45:00	22.4	0.4**	7.83	6.74	92.5
7/15/2008	14:00:00	22.6	0.3**	7.83	6.71	92.5
7/15/2008	14:15:00	22.8	0.3**	7.84	6.74	93.1
7/15/2008	14:30:00	22.9	3.5**	7.85	6.69	92.8
7/15/2008	14:45:00	23.1	2.1**	7.86	6.72	93.5
7/15/2008	15:00:00	23.2	2.0**	7.87	6.73	93.9
7/15/2008	15:15:00	23.4	1.8**	7.88	6.66	93.1
7/15/2008	15:30:00	23.5	1.4**	7.90	6.72	94.1
7/15/2008	15:45:00	23.6	1.1**	7.90	6.64	93.2
7/15/2008	16:00:00	23.7	1.1**	7.92	6.63	93.4
7/15/2008	16:15:00	23.9	0.9**	7.92	6.61	93.3
7/15/2008	16:30:00	24.0	0.7**	7.93	6.54	92.5
7/15/2008	16:45:00	24.1	0.6**	7.94	6.45	91.4
7/15/2008	17:00:00	24.1	0.7**	7.95	6.51	92.4
7/15/2008	17:15:00	24.2	0.4**	7.96	6.48	92.1
7/15/2008	17:30:00	24.3	0.7**	7.96	6.40	91.1
7/15/2008	17:45:00	24.3	0.6**	7.97	6.36	90.5

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/15/2008	18:00:00	24.4	0.6**	7.98	6.39	91.0
7/15/2008	18:15:00	24.4	0.6**	7.99	6.31	90.0
7/15/2008	18:30:00	24.4	0.4**	8.00	6.33	90.3
7/15/2008	18:45:00	24.4	0.3**	8.01	6.31	89.9
7/15/2008	19:00:00	24.3	0.6**	8.02	6.13	87.3
7/15/2008	19:15:00	24.3	0.4**	8.02	6.17	87.7
7/15/2008	19:30:00	24.2	0.4**	8.03	6.09	86.6
7/15/2008	19:45:00	24.2	0.6**	8.04	6.14	87.2
7/15/2008	20:00:00	24.1	0.4**	8.05	6.08	86.3
7/15/2008	20:15:00	24.0	0.4**	8.03	6.06	85.7
7/15/2008	20:30:00	24.0	0.6**	8.05	6.08	86.0
7/15/2008	20:45:00	23.9	0.6**	8.05	6.02	85.1
7/15/2008	21:00:00	23.9	0.4**	8.06	5.88	83.0
7/15/2008	21:15:00	23.9	0.4**	8.07	5.87	82.9
7/15/2008	21:30:00	23.9	0.6**	8.07	5.87	82.9
7/15/2008	21:45:00	23.9	0.4**	8.08	5.84	82.4
7/15/2008	22:00:00	23.9	0.4**	8.09	5.83	82.3
7/15/2008	22:15:00	23.8	0.6**	8.10	5.79	81.6
7/15/2008	22:30:00	23.8	0.6**	8.11	5.76	81.2
7/15/2008	22:45:00	23.8	0.6**	8.12	5.73	80.8
7/15/2008	23:00:00	23.7	0.6**	8.12	5.72	80.5
7/15/2008	23:15:00	23.7	0.6**	8.12	5.67	79.8
7/15/2008	23:30:00	23.7	0.4**	8.12	5.66	79.6
7/15/2008	23:45:00	23.6	0.4**	8.14	5.69	79.9
7/16/2008	0:00:00	23.5	0.6**	8.14	5.76	80.8
7/16/2008	0:15:00	23.5	0.4**	8.14	5.71	80.0
7/16/2008	0:30:00	23.4	0.7**	8.13	5.61	78.5
7/16/2008	0:45:00	23.4	0.6**	8.14	5.64	78.9
7/16/2008	1:00:00	23.3	0.7**	8.14	5.59	78.1
7/16/2008	1:15:00	23.3	0.7**	8.14	5.62	78.4
7/16/2008	1:30:00	23.3	0.7**	8.15	5.59	78.0
7/16/2008	1:45:00	23.2	0.7**	8.15	5.67	79.1
7/16/2008	2:00:00	23.2	0.7**	8.15	5.61	78.3
7/16/2008	2:15:00	23.2	0.6**	8.16	5.63	78.4
7/16/2008	2:30:00	23.2	0.6**	8.16	5.61	78.1
7/16/2008	2:45:00	23.1	0.7**	8.15	5.60	77.9
7/16/2008	3:00:00	23.1	0.8**	8.15	5.62	78.2
7/16/2008	3:15:00	23.1	0.7**	8.15	5.70	79.3
7/16/2008	3:30:00	23.0	0.7**	8.14	5.67	78.7
7/16/2008	3:45:00	23.0	0.8**	8.13	5.69	79.0
7/16/2008	4:00:00	22.9	0.8**	8.13	5.68	78.8
7/16/2008	4:15:00	22.9	1.0**	8.11	5.70	78.9
7/16/2008	4:30:00	22.8	1.1**	8.11	5.72	79.1
7/16/2008	4:45:00	22.8	1.3**	8.10	5.72	79.0
7/16/2008	5:00:00	22.7	1.3**	8.08	5.71	78.8
7/16/2008	5:15:00	22.6	1.3**	8.07	5.78	79.6

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/16/2008	5:30:00	22.5	1.5**	8.07	5.75	79.1
7/16/2008	5:45:00	22.4	1.4**	8.05	5.80	79.6
7/16/2008	6:00:00	22.3	1.1**	8.03	5.81	79.6
7/16/2008	6:15:00	22.2	1.7**	8.01	5.78	79.0
7/16/2008	6:30:00	22.0	1.3**	7.99	5.78	78.9
7/16/2008	6:45:00	21.9	1.7**	7.96	5.81	79.0
7/16/2008	7:00:00	21.8	1.8**	7.94	5.87	79.7
7/16/2008	7:15:00	21.6	1.7**	7.93	5.91	80.0
7/16/2008	7:30:00	21.5	1.8**	7.90	5.87	79.2
7/16/2008	7:45:00	21.4	1.7**	7.88	5.93	79.8
7/16/2008	8:00:00	21.3	2.0**	7.86	6.02	80.9
7/16/2008	8:15:00	21.2	1.5**	7.84	6.06	81.3
7/16/2008	8:30:00	21.2	2.1**	7.82	6.11	81.8
7/16/2008	8:45:00	21.1	1.8**	7.80	6.07	81.3
7/16/2008	9:00:00	21.1	1.7**	7.80	6.15	82.3
7/16/2008	9:15:00	21.1	1.8**	7.78	6.19	82.8
7/16/2008	9:30:00	21.1	1.7**	7.78	6.20	82.9
7/16/2008	9:45:00	21.1	272	7.76	6.46	86.6
7/16/2008	10:00:00	21.2	271	7.76	6.50	87.1
7/16/2008	10:15:00	21.2	271	7.76	6.55	88.0
7/16/2008	10:30:00	21.3	271	7.76	6.63	89.1
7/16/2008	10:45:00	21.4	271	7.75	6.59	88.8
7/16/2008	11:00:00	21.5	270	7.75	6.62	89.4
7/16/2008	11:15:00	21.6	270	7.75	6.61	89.4
7/16/2008	11:30:00	21.7	270	7.73	6.56	89.0
7/16/2008	11:45:00	21.8	269	7.73	6.60	89.7
7/16/2008	12:00:00	21.9	269	7.72	6.54	89.1
7/16/2008	12:15:00	22.1	269	7.72	6.52	89.0
7/16/2008	12:30:00	22.2	268	7.72	6.47	88.6
7/16/2008	12:45:00	22.4	268	7.72	6.55	89.9
7/16/2008	13:00:00	22.5	269	7.72	6.55	90.3
7/16/2008	13:15:00	22.7	269	7.73	6.57	90.8
7/16/2008	13:30:00	22.8	269	7.74	6.56	91.0
7/16/2008	13:45:00	23.0	270	7.75	6.60	91.7
7/16/2008	14:00:00	23.2	270	7.77	6.64	92.6
7/16/2008	14:15:00	23.4	271	7.78	6.63	92.9
7/16/2008	14:30:00	23.5	271	7.80	6.61	92.8
7/16/2008	14:45:00	23.7	272	7.81	6.63	93.4
7/16/2008	15:00:00	23.9	272	7.83	6.51	92.0
7/16/2008	15:15:00	24.0	273	7.84	6.57	93.1
7/16/2008	15:30:00	24.1	274	7.85	6.58	93.4
7/16/2008	15:45:00	24.3	275	7.87	6.59	93.9
7/16/2008	16:00:00	24.4	275	7.89	6.52	93.1
7/16/2008	16:15:00	24.5	275	7.90	6.56	93.7
7/16/2008	16:30:00	24.6	276	7.91	6.55	93.7
7/16/2008	16:45:00	24.6	276	7.92	6.41	91.8

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/16/2008	17:00:00	24.6	276	7.93	6.42	92.0
7/16/2008	17:15:00	24.6	276	7.95	6.45	92.4
7/16/2008	17:30:00	24.6	276	7.95	6.38	91.4
7/16/2008	17:45:00	24.7	275	7.96	6.35	91.1
7/16/2008	18:00:00	24.7	275	7.97	6.37	91.4
7/16/2008	18:15:00	24.7	274	7.98	6.35	91.2
7/16/2008	18:30:00	24.7	274	7.99	6.31	90.6
7/16/2008	18:45:00	24.7	274	7.99	6.32	90.6
7/16/2008	19:00:00	24.6	275	8.00	6.27	89.8
7/16/2008	19:15:00	24.6	275	8.01	6.25	89.6
7/16/2008	19:30:00	24.5	275	8.02	6.21	88.8
7/16/2008	19:45:00	24.4	274	8.02	6.17	88.1
7/16/2008	20:00:00	24.3	275	8.03	6.10	86.9
7/16/2008	20:15:00	24.3	275	8.04	6.12	87.1
7/16/2008	20:30:00	24.2	274	8.04	6.06	86.3
7/16/2008	20:45:00	24.2	274	8.06	5.96	84.7
7/16/2008	21:00:00	24.1	275	8.07	6.02	85.5
7/16/2008	21:15:00	24.0	274	8.07	5.95	84.3
7/16/2008	21:30:00	24.0	274	8.08	5.95	84.1
7/16/2008	21:45:00	23.9	274	8.08	6.00	84.8
7/16/2008	22:00:00	23.9	274	8.08	5.87	82.9
7/16/2008	22:15:00	23.8	274	8.10	5.79	81.8
7/16/2008	22:30:00	23.8	274	8.09	5.91	83.5
7/16/2008	22:45:00	23.8	274	8.09	5.78	81.7
7/16/2008	23:00:00	23.8	274	8.10	5.85	82.5
7/16/2008	23:15:00	23.8	274	8.10	5.77	81.5
7/16/2008	23:30:00	23.8	274	8.10	5.76	81.3
7/16/2008	23:45:00	23.8	274	8.10	5.75	81.1
7/17/2008	0:00:00	23.8	274	8.11	5.83	82.3
7/17/2008	0:15:00	23.7	273	8.10	5.74	80.8
7/17/2008	0:30:00	23.7	274	8.11	5.76	81.1
7/17/2008	0:45:00	23.6	273	8.11	5.76	81.0
7/17/2008	1:00:00	23.5	273	8.12	5.71	80.2
7/17/2008	1:15:00	23.5	274	8.12	5.74	80.5
7/17/2008	1:30:00	23.5	274	8.12	5.79	81.1
7/17/2008	1:45:00	23.4	273	8.12	5.74	80.3
7/17/2008	2:00:00	23.3	273	8.12	5.72	80.1
7/17/2008	2:15:00	23.3	274	8.13	5.77	80.6
7/17/2008	2:30:00	23.3	273	8.12	5.72	79.9
7/17/2008	2:45:00	23.3	273	8.13	5.76	80.4
7/17/2008	3:00:00	23.2	273	8.13	5.74	80.1
7/17/2008	3:15:00	23.2	273	8.12	5.71	79.7
7/17/2008	3:30:00	23.1	272	8.13	5.71	79.6
7/17/2008	3:45:00	23.1	272	8.13	5.71	79.5
7/17/2008	4:00:00	23.0	272	8.12	5.74	79.8
7/17/2008	4:15:00	22.9	272	8.12	5.78	80.2

Table 5.74. Water quality measurements at Site 1, Rio Grande at Bernalillo, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; ** specific conductivity readings are unreliable; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/17/2008	4:30:00	22.9	272	8.11	5.70	79.0
7/17/2008	4:45:00	22.8	272	8.10	5.70	78.8
7/17/2008	5:00:00	22.7	273	8.09	5.77	79.7
7/17/2008	5:15:00	22.6	273	8.07	5.81	80.2
7/17/2008	5:30:00	22.5	273	8.06	5.79	79.8
7/17/2008	5:45:00	22.4	273	8.05	5.80	79.7
7/17/2008	6:00:00	22.3	273	8.03	5.80	79.7
7/17/2008	6:15:00	22.2	273	8.00	5.81	79.6
7/17/2008	6:30:00	22.1	273	7.99	5.78	79.0
7/17/2008	6:45:00	22.1	273	7.96	5.87	80.1
7/17/2008	7:00:00	22.0	273	7.94	5.86	79.9
7/17/2008	7:15:00	21.9	273	7.92	5.92	80.5
7/17/2008	7:30:00	21.8	273	7.91	5.92	80.4
7/17/2008	7:45:00	21.8	273	7.90	5.90	80.1
7/17/2008	8:00:00	21.7	273	7.88	6.02	81.6
7/17/2008	8:15:00	21.7	273	7.87	5.94	80.5
7/17/2008	8:30:00	21.6	273	7.86	6.09	82.4
7/17/2008	8:45:00	21.6	273	7.84	6.07	82.1
7/17/2008	9:00:00	21.6	273	7.84	6.05	81.8
7/17/2008	9:15:00	21.6	273	7.83	6.19	83.7
7/17/2008	9:30:00	21.6	273	7.82	6.13	83.0
7/17/2008	9:45:00	21.6	273	7.82	6.20	84.0
7/17/2008	10:00:00	21.7	273	7.81	6.22	84.2

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Athena**
Log	**File**	**Name**	**:**	**Site5_7-7-08**
Setup	**Date**	**(MMDDYY)**	**:**	**7/7/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**10:43:33**
Starting	**Date**	**(MMDDYY)**	**:**	**7/7/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**12:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**7/17/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO (mg/L)	DO Saturation (%)
7/11/2008	15:15:00	24.0	7.07	99.5
7/11/2008	15:30:00	24.1	7.09	100.0
7/11/2008	15:45:00	24.2	7.07	99.8
7/11/2008	16:00:00	24.2	7.04	99.3
7/11/2008	16:15:00	24.1	7.02	98.9
7/11/2008	16:30:00	24.0	7.00	98.5
7/11/2008	16:45:00	23.9	6.97	97.9
7/11/2008	17:00:00	23.7	6.91	96.7
7/11/2008	17:15:00	23.6	6.93	96.6
7/11/2008	17:30:00	23.4	6.88	95.7
7/11/2008	17:45:00	23.2	6.86	95.1
7/11/2008	18:00:00	23.1	6.88	95.2
7/11/2008	18:15:00	23.1	6.94	96.0
7/11/2008	18:30:00	23.1	6.93	95.7
7/11/2008	18:45:00	23.0	6.91	95.5
7/11/2008	19:00:00	23.0	6.93	95.7
7/11/2008	19:15:00	22.9	6.96	95.9
7/11/2008	19:30:00	22.9	6.93	95.5
7/11/2008	19:45:00	22.8	6.92	95.2
7/11/2008	20:00:00	22.8	6.91	94.9
7/11/2008	20:15:00	22.7	6.94	95.2
7/11/2008	20:30:00	22.7	6.94	95.1
7/11/2008	20:45:00	22.6	6.88	94.2
7/11/2008	21:00:00	22.6	6.86	94.0
7/11/2008	21:15:00	22.6	6.86	93.8
7/11/2008	21:30:00	22.5	6.86	93.8
7/11/2008	21:45:00	22.5	6.86	93.7
7/11/2008	22:00:00	22.5	6.83	93.3
7/11/2008	22:15:00	22.4	6.80	92.8
7/11/2008	22:30:00	22.4	6.72	91.6
7/11/2008	22:45:00	22.3	6.68	91.0
7/11/2008	23:00:00	22.3	6.62	90.0
7/11/2008	23:15:00	22.2	6.58	89.4
7/11/2008	23:30:00	22.1	6.53	88.6

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/11/2008	23:45:00	22.1	6.49	87.9
7/12/2008	0:00:00	22.0	6.46	87.5
7/12/2008	0:15:00	22.0	6.45	87.3
7/12/2008	0:30:00	22.0	6.41	86.7
7/12/2008	0:45:00	22.0	6.43	87.0
7/12/2008	1:00:00	21.9	6.43	86.9
7/12/2008	1:15:00	21.9	6.41	86.7
7/12/2008	1:30:00	21.9	6.39	86.3
7/12/2008	1:45:00	21.9	6.41	86.6
7/12/2008	2:00:00	21.8	6.45	87.0
7/12/2008	2:15:00	21.8	6.46	87.0
7/12/2008	2:30:00	21.7	6.46	87.0
7/12/2008	2:45:00	21.7	6.44	86.7
7/12/2008	3:00:00	21.6	6.48	87.2
7/12/2008	3:15:00	21.6	6.48	87.0
7/12/2008	3:30:00	21.5	6.45	86.5
7/12/2008	3:45:00	21.5	6.51	87.2
7/12/2008	4:00:00	21.5	6.52	87.4
7/12/2008	4:15:00	21.4	6.53	87.3
7/12/2008	4:30:00	21.4	6.55	87.7
7/12/2008	4:45:00	21.4	6.55	87.5
7/12/2008	5:00:00	21.3	6.58	88.0
7/12/2008	5:15:00	21.3	6.60	88.1
7/12/2008	5:30:00	21.2	6.60	88.0
7/12/2008	5:45:00	21.2	6.62	88.2
7/12/2008	6:00:00	21.1	6.62	88.1
7/12/2008	6:15:00	21.1	6.62	88.0
7/12/2008	6:30:00	21.0	6.67	88.6
7/12/2008	6:45:00	21.0	6.67	88.6
7/12/2008	7:00:00	21.0	6.69	88.7
7/12/2008	7:15:00	21.0	6.70	88.8
7/12/2008	7:30:00	20.9	6.76	89.6
7/12/2008	7:45:00	21.0	6.73	89.2
7/12/2008	8:00:00	21.0	6.78	89.9
7/12/2008	8:15:00	21.1	6.83	90.8
7/12/2008	8:30:00	21.1	6.84	91.0
7/12/2008	8:45:00	21.2	6.87	91.6
7/12/2008	9:00:00	21.3	6.92	92.5
7/12/2008	9:15:00	21.5	6.98	93.5
7/12/2008	9:30:00	21.6	6.99	93.8
7/12/2008	9:45:00	21.7	7.02	94.6
7/12/2008	10:00:00	21.9	7.02	94.9
7/12/2008	10:15:00	22.1	7.07	95.8
7/12/2008	10:30:00	22.2	7.08	96.1
7/12/2008	10:45:00	22.3	7.11	96.8
7/12/2008	11:00:00	22.5	7.13	97.4

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/12/2008	11:15:00	22.5	7.16	97.9
7/12/2008	11:30:00	22.6	7.17	98.2
7/12/2008	11:45:00	22.7	7.20	98.8
7/12/2008	12:00:00	22.9	7.21	99.3
7/12/2008	12:15:00	23.1	7.21	99.8
7/12/2008	12:30:00	23.3	7.22	100.2
7/12/2008	12:45:00	23.5	7.28	101.5
7/12/2008	13:00:00	23.8	7.29	102.1
7/12/2008	13:15:00	23.9	7.28	102.3
7/12/2008	13:30:00	24.0	7.30	102.7
7/12/2008	13:45:00	24.0	7.33	103.2
7/12/2008	14:00:00	24.2	7.34	103.6
7/12/2008	14:15:00	24.3	7.33	103.8
7/12/2008	14:30:00	24.4	7.33	103.9
7/12/2008	14:45:00	24.5	7.37	104.5
7/12/2008	15:00:00	24.6	7.32	104.2
7/12/2008	15:15:00	24.6	7.33	104.3
7/12/2008	15:30:00	24.5	7.32	104.1
7/12/2008	15:45:00	24.5	7.30	103.7
7/12/2008	16:00:00	24.5	7.28	103.4
7/12/2008	16:15:00	24.5	7.30	103.6
7/12/2008	16:30:00	24.5	7.28	103.5
7/12/2008	16:45:00	24.6	7.27	103.5
7/12/2008	17:00:00	24.6	7.28	103.5
7/12/2008	17:15:00	24.6	7.27	103.5
7/12/2008	17:30:00	24.5	7.29	103.6
7/12/2008	17:45:00	24.6	7.25	103.1
7/12/2008	18:00:00	24.6	7.24	103.0
7/12/2008	18:15:00	24.6	7.24	103.0
7/12/2008	18:30:00	24.5	7.26	103.0
7/12/2008	18:45:00	24.5	7.23	102.7
7/12/2008	19:00:00	24.4	7.23	102.5
7/12/2008	19:15:00	24.3	7.20	101.8
7/12/2008	19:30:00	24.2	7.19	101.5
7/12/2008	19:45:00	24.0	7.19	101.2
7/12/2008	20:00:00	23.9	7.17	100.6
7/12/2008	20:15:00	23.7	7.16	100.2
7/12/2008	20:30:00	23.5	7.15	99.6
7/12/2008	20:45:00	23.4	7.16	99.4
7/12/2008	21:00:00	23.2	7.15	99.2
7/12/2008	21:15:00	23.1	7.14	98.7
7/12/2008	21:30:00	23.0	7.13	98.5
7/12/2008	21:45:00	23.0	7.12	98.2
7/12/2008	22:00:00	22.9	7.11	97.9
7/12/2008	22:15:00	22.8	7.10	97.5
7/12/2008	22:30:00	22.7	7.10	97.3

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/12/2008	22:45:00	22.6	7.10	97.1
7/12/2008	23:00:00	22.5	7.10	97.0
7/12/2008	23:15:00	22.5	7.10	97.0
7/12/2008	23:30:00	22.5	7.10	97.0
7/12/2008	23:45:00	22.5	7.08	96.7
7/13/2008	0:00:00	22.5	7.08	96.7
7/13/2008	0:15:00	22.4	7.08	96.7
7/13/2008	0:30:00	22.5	7.04	96.1
7/13/2008	0:45:00	22.4	7.02	95.8
7/13/2008	1:00:00	22.4	7.03	95.8
7/13/2008	1:15:00	22.3	7.03	95.8
7/13/2008	1:30:00	22.3	6.99	95.2
7/13/2008	1:45:00	22.3	7.00	95.3
7/13/2008	2:00:00	22.2	7.00	95.2
7/13/2008	2:15:00	22.2	7.02	95.4
7/13/2008	2:30:00	22.2	7.01	95.3
7/13/2008	2:45:00	22.2	7.00	95.2
7/13/2008	3:00:00	22.2	6.98	94.9
7/13/2008	3:15:00	22.2	6.98	94.9
7/13/2008	3:30:00	22.2	6.98	94.9
7/13/2008	3:45:00	22.2	6.97	94.8
7/13/2008	4:00:00	22.3	6.93	94.3
7/13/2008	4:15:00	22.2	6.76	92.0
7/13/2008	4:30:00	22.5	5.87	80.3
7/13/2008	4:45:00	22.8	4.73	65.1
7/13/2008	5:00:00	23.1	3.65	50.5
7/13/2008	5:15:00	23.1	2.97	41.1
7/13/2008	5:30:00	22.8	2.90	39.9
7/13/2008	5:45:00	22.4	3.30	44.9
7/13/2008	6:00:00	21.9	3.88	52.4
7/13/2008	6:15:00	21.8	4.46	60.1
7/13/2008	6:30:00	21.7	4.78	64.3
7/13/2008	6:45:00	21.6	5.02	67.5
7/13/2008	7:00:00	21.5	5.27	70.7
7/13/2008	7:15:00	21.5	5.54	74.3
7/13/2008	7:30:00	21.5	5.65	75.7
7/13/2008	7:45:00	21.5	5.74	76.9
7/13/2008	8:00:00	21.5	5.78	77.5
7/13/2008	8:15:00	21.5	5.70	76.5
7/13/2008	8:30:00	21.5	5.57	74.7
7/13/2008	8:45:00	21.5	5.52	74.0
7/13/2008	9:00:00	21.5	5.38	72.1
7/13/2008	9:15:00	21.5	5.37	72.0
7/13/2008	9:30:00	21.6	5.37	72.0
7/13/2008	9:45:00	21.6	5.21	70.0
7/13/2008	10:00:00	21.6	5.22	70.1

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/13/2008	10:15:00	21.7	5.21	70.0
7/13/2008	10:30:00	21.7	5.14	69.2
7/13/2008	10:45:00	21.8	5.13	69.1
7/13/2008	11:00:00	21.8	5.05	68.1
7/13/2008	11:15:00	21.9	4.93	66.6
7/13/2008	11:30:00	22.0	4.84	65.4
7/13/2008	11:45:00	22.0	4.84	65.5
7/13/2008	12:00:00	22.1	4.88	66.2
7/13/2008	12:15:00	22.2	4.83	65.6
7/13/2008	12:30:00	22.3	4.70	63.9
7/13/2008	12:45:00	22.3	4.58	62.3
7/13/2008	13:00:00	22.4	4.48	61.1
7/13/2008	13:15:00	22.5	4.38	59.9
7/13/2008	13:30:00	22.6	4.37	59.8
7/13/2008	13:45:00	22.6	4.32	59.2
7/13/2008	14:00:00	22.7	4.31	59.2
7/13/2008	14:15:00	22.9	4.33	59.6
7/13/2008	14:30:00	23.1	4.26	58.9
7/13/2008	14:45:00	23.3	4.20	58.2
7/13/2008	15:00:00	23.4	4.14	57.6
7/13/2008	15:15:00	23.5	4.13	57.5
7/13/2008	15:30:00	23.7	4.17	58.4
7/13/2008	15:45:00	23.9	4.16	58.5
7/13/2008	16:00:00	24.1	4.14	58.4
7/13/2008	16:15:00	24.2	4.15	58.6
7/13/2008	16:30:00	24.3	4.14	58.6
7/13/2008	16:45:00	24.3	4.15	58.7
7/13/2008	17:00:00	24.3	4.20	59.4
7/13/2008	17:15:00	24.3	4.25	60.1
7/13/2008	17:30:00	24.3	4.30	60.9
7/13/2008	17:45:00	24.3	4.32	61.2
7/13/2008	18:00:00	24.2	4.35	61.5
7/13/2008	18:15:00	24.2	4.39	62.0
7/13/2008	18:30:00	24.2	4.44	62.7
7/13/2008	18:45:00	24.1	4.48	63.1
7/13/2008	19:00:00	24.0	4.51	63.5
7/13/2008	19:15:00	23.9	4.54	63.7
7/13/2008	19:30:00	23.8	4.58	64.1
7/13/2008	19:45:00	23.6	4.62	64.5
7/13/2008	20:00:00	23.5	4.63	64.5
7/13/2008	20:15:00	23.4	4.66	64.7
7/13/2008	20:30:00	23.3	4.67	64.8
7/13/2008	20:45:00	23.2	4.72	65.4
7/13/2008	21:00:00	23.1	4.76	65.8
7/13/2008	21:15:00	23.0	4.80	66.2
7/13/2008	21:30:00	22.9	4.83	66.6

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/13/2008	21:45:00	22.8	4.87	66.9
7/13/2008	22:00:00	22.7	4.90	67.2
7/13/2008	22:15:00	22.6	4.93	67.5
7/13/2008	22:30:00	22.6	4.95	67.7
7/13/2008	22:45:00	22.5	4.96	67.8
7/13/2008	23:00:00	22.4	4.96	67.8
7/13/2008	23:15:00	22.4	4.98	68.0
7/13/2008	23:30:00	22.3	5.01	68.3
7/13/2008	23:45:00	22.3	5.02	68.3
7/14/2008	0:00:00	22.2	5.03	68.4
7/14/2008	0:15:00	22.1	5.05	68.5
7/14/2008	0:30:00	22.1	5.05	68.5
7/14/2008	0:45:00	22.0	5.07	68.7
7/14/2008	1:00:00	22.0	5.09	68.8
7/14/2008	1:15:00	21.9	5.10	69.0
7/14/2008	1:30:00	21.8	5.11	69.0
7/14/2008	1:45:00	21.8	5.13	69.1
7/14/2008	2:00:00	21.8	5.14	69.2
7/14/2008	2:15:00	21.7	5.13	69.1
7/14/2008	2:30:00	21.7	5.13	69.1
7/14/2008	2:45:00	21.7	5.14	69.2
7/14/2008	3:00:00	21.7	5.15	69.3
7/14/2008	3:15:00	21.7	5.15	69.3
7/14/2008	3:30:00	21.7	5.16	69.3
7/14/2008	3:45:00	21.7	5.17	69.5
7/14/2008	4:00:00	21.6	5.18	69.7
7/14/2008	4:15:00	21.6	5.19	69.7
7/14/2008	4:30:00	21.6	5.19	69.8
7/14/2008	4:45:00	21.6	5.18	69.7
7/14/2008	5:00:00	21.6	5.17	69.5
7/14/2008	5:15:00	21.6	5.16	69.3
7/14/2008	5:30:00	21.6	5.15	69.2
7/14/2008	5:45:00	21.6	5.13	68.9
7/14/2008	6:00:00	21.6	5.08	68.3
7/14/2008	6:15:00	21.6	5.04	67.7
7/14/2008	6:30:00	21.7	5.00	67.2
7/14/2008	6:45:00	21.7	5.02	67.4
7/14/2008	7:00:00	21.7	5.02	67.5
7/14/2008	7:15:00	21.7	5.00	67.3
7/14/2008	7:30:00	21.7	4.99	67.1
7/14/2008	7:45:00	21.7	4.95	66.6
7/14/2008	8:00:00	21.7	4.89	65.8
7/14/2008	8:15:00	21.7	4.85	65.2
7/14/2008	8:30:00	21.7	4.81	64.8
7/14/2008	8:45:00	21.7	4.80	64.6
7/14/2008	9:00:00	21.8	4.79	64.5

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/14/2008	9:15:00	21.9	4.78	64.5
7/14/2008	9:30:00	21.9	4.77	64.4
7/14/2008	9:45:00	22.0	4.76	64.4
7/14/2008	10:00:00	22.1	4.76	64.5
7/14/2008	10:15:00	22.1	4.75	64.4
7/14/2008	10:30:00	22.2	4.75	64.4
7/14/2008	10:45:00	22.3	4.73	64.4
7/14/2008	11:00:00	22.5	4.72	64.5
7/14/2008	11:15:00	22.6	4.71	64.5
7/14/2008	11:30:00	22.8	4.69	64.5
7/14/2008	11:45:00	22.9	4.68	64.5
7/14/2008	12:00:00	23.0	4.66	64.3
7/14/2008	12:15:00	23.2	4.63	64.1
7/14/2008	12:30:00	23.4	4.60	63.9
7/14/2008	12:45:00	23.5	4.57	63.6
7/14/2008	13:00:00	23.6	4.54	63.4
7/14/2008	13:15:00	23.7	4.52	63.3
7/14/2008	13:30:00	24.0	4.49	63.2
7/14/2008	13:45:00	23.9	4.47	62.8
7/14/2008	14:00:00	23.9	4.45	62.4
7/14/2008	14:15:00	23.9	4.43	62.2
7/14/2008	14:30:00	23.8	4.41	61.8
7/14/2008	14:45:00	23.9	4.38	61.5
7/14/2008	15:00:00	23.8	4.36	61.0
7/14/2008	15:15:00	23.8	4.33	60.7
7/14/2008	15:30:00	23.8	4.30	60.2
7/14/2008	15:45:00	23.6	4.26	59.5
7/14/2008	16:00:00	23.5	4.23	59.0
7/14/2008	16:15:00	23.4	4.21	58.6
7/14/2008	16:30:00	23.3	4.18	58.1
7/14/2008	16:45:00	23.2	4.16	57.7
7/14/2008	17:00:00	23.2	4.15	57.4
7/14/2008	17:15:00	23.1	4.13	57.2
7/14/2008	17:30:00	23.1	4.12	56.9
7/14/2008	17:45:00	23.0	4.11	56.8
7/14/2008	18:00:00	23.0	4.11	56.7
7/14/2008	18:15:00	22.9	4.10	56.5
7/14/2008	18:30:00	22.9	4.09	56.3
7/14/2008	18:45:00	22.8	4.08	56.1
7/14/2008	19:00:00	22.8	4.08	56.0
7/14/2008	19:15:00	22.7	4.07	55.8
7/14/2008	19:30:00	22.7	4.06	55.7
7/14/2008	19:45:00	22.6	4.05	55.5
7/14/2008	20:00:00	22.6	4.05	55.5
7/14/2008	20:15:00	22.5	4.05	55.3
7/14/2008	20:30:00	22.5	4.05	55.3

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/14/2008	20:45:00	22.4	4.04	55.2
7/14/2008	21:00:00	22.3	4.04	55.1
7/14/2008	21:15:00	22.3	4.04	55.0
7/14/2008	21:30:00	22.3	4.03	54.9
7/14/2008	21:45:00	22.2	4.03	54.8
7/14/2008	22:00:00	22.2	4.02	54.7
7/14/2008	22:15:00	22.2	4.02	54.6
7/14/2008	22:30:00	22.2	4.02	54.6
7/14/2008	22:45:00	22.1	4.02	54.5
7/14/2008	23:00:00	22.1	4.02	54.5
7/14/2008	23:15:00	22.0	4.02	54.4
7/14/2008	23:30:00	22.0	4.01	54.3
7/14/2008	23:45:00	21.9	4.01	54.2
7/15/2008	0:00:00	21.9	4.01	54.1
7/15/2008	0:15:00	21.8	4.00	54.0
7/15/2008	0:30:00	21.8	3.99	53.8
7/15/2008	0:45:00	21.8	3.98	53.7
7/15/2008	1:00:00	21.7	3.98	53.5
7/15/2008	1:15:00	21.7	3.97	53.5
7/15/2008	1:30:00	21.7	3.96	53.3
7/15/2008	1:45:00	21.7	3.96	53.2
7/15/2008	2:00:00	21.6	3.95	53.2
7/15/2008	2:15:00	21.6	3.95	53.1
7/15/2008	2:30:00	21.6	3.94	53.0
7/15/2008	2:45:00	21.6	3.94	52.9
7/15/2008	3:00:00	21.6	3.94	52.8
7/15/2008	3:15:00	21.5	3.93	52.7
7/15/2008	3:30:00	21.5	3.93	52.6
7/15/2008	3:45:00	21.5	3.93	52.6
7/15/2008	4:00:00	21.5	3.93	52.6
7/15/2008	4:15:00	21.5	3.93	52.6
7/15/2008	4:30:00	21.4	3.93	52.6
7/15/2008	4:45:00	21.4	3.93	52.6
7/15/2008	5:00:00	21.4	3.94	52.6
7/15/2008	5:15:00	21.3	3.94	52.6
7/15/2008	5:30:00	21.3	3.94	52.5
7/15/2008	5:45:00	21.3	3.94	52.5
7/15/2008	6:00:00	21.2	3.93	52.4
7/15/2008	6:15:00	21.2	3.92	52.3
7/15/2008	6:30:00	21.1	3.92	52.1
7/15/2008	6:45:00	21.1	3.91	52.1
7/15/2008	7:00:00	21.1	3.91	52.0
7/15/2008	7:15:00	21.1	3.91	52.0
7/15/2008	7:30:00	21.1	3.90	51.9
7/15/2008	7:45:00	21.1	3.90	51.9
7/15/2008	8:00:00	21.2	3.90	52.0

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/15/2008	8:15:00	21.2	3.96	52.7
7/15/2008	8:30:00	21.3	4.16	55.5
7/15/2008	8:45:00	21.4	4.29	57.4
7/15/2008	9:00:00	21.5	4.36	58.5
7/15/2008	9:15:00	21.6	4.39	59.0
7/15/2008	9:30:00	21.8	4.40	59.2
7/15/2008	9:45:00	21.9	4.38	59.2
7/15/2008	10:00:00	22.1	4.34	58.9
7/15/2008	10:15:00	22.3	4.30	58.5
7/15/2008	10:30:00	22.4	4.25	58.1
7/15/2008	10:45:00	22.6	4.21	57.6
7/15/2008	11:00:00	22.8	4.16	57.2
7/15/2008	11:15:00	23.0	4.11	56.7
7/15/2008	11:30:00	23.2	4.07	56.3
7/15/2008	11:45:00	23.3	4.03	56.0
7/15/2008	12:00:00	23.5	3.99	55.7
7/15/2008	12:15:00	23.7	3.96	55.4
7/15/2008	12:30:00	23.9	3.94	55.3
7/15/2008	12:45:00	24.1	3.96	55.7
7/15/2008	13:00:00	24.3	4.22	59.7
7/15/2008	13:15:00	24.4	4.42	62.7
7/15/2008	13:30:00	24.6	4.54	64.7
7/15/2008	13:45:00	24.8	4.61	65.8
7/15/2008	14:00:00	25.0	4.64	66.6
7/15/2008	14:15:00	25.1	4.66	67.0
7/15/2008	14:30:00	25.1	4.69	67.3
7/15/2008	14:45:00	25.1	4.70	67.5
7/15/2008	15:00:00	25.1	4.72	67.9
7/15/2008	15:15:00	25.3	4.72	68.1
7/15/2008	15:30:00	25.4	4.72	68.2
7/15/2008	15:45:00	25.5	4.71	68.2
7/15/2008	16:00:00	25.5	4.71	68.2
7/15/2008	16:15:00	25.6	4.70	68.1
7/15/2008	16:30:00	25.7	4.69	68.1
7/15/2008	16:45:00	25.8	4.67	68.0
7/15/2008	17:00:00	25.9	4.66	67.9
7/15/2008	17:15:00	26.0	4.65	67.8
7/15/2008	17:30:00	25.9	4.63	67.5
7/15/2008	17:45:00	26.0	4.62	67.5
7/15/2008	18:00:00	26.0	4.61	67.3
7/15/2008	18:15:00	25.9	4.60	67.1
7/15/2008	18:30:00	25.8	4.59	66.7
7/15/2008	18:45:00	25.7	4.58	66.5
7/15/2008	19:00:00	25.6	4.57	66.2
7/15/2008	19:15:00	25.6	4.56	66.0
7/15/2008	19:30:00	25.4	4.55	65.7

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/15/2008	19:45:00	25.3	4.55	65.6
7/15/2008	20:00:00	25.2	4.55	65.5
7/15/2008	20:15:00	25.0	4.55	65.3
7/15/2008	20:30:00	24.9	4.55	65.1
7/15/2008	20:45:00	24.8	4.55	64.9
7/15/2008	21:00:00	24.6	4.55	64.8
7/15/2008	21:15:00	24.5	4.56	64.7
7/15/2008	21:30:00	24.4	4.56	64.7
7/15/2008	21:45:00	24.2	4.55	64.3
7/15/2008	22:00:00	24.0	4.55	64.0
7/15/2008	22:15:00	23.8	4.54	63.6
7/15/2008	22:30:00	23.6	4.53	63.3
7/15/2008	22:45:00	23.5	4.51	62.8
7/15/2008	23:00:00	23.3	4.50	62.5
7/15/2008	23:15:00	23.2	4.49	62.3
7/15/2008	23:30:00	23.2	4.49	62.2
7/15/2008	23:45:00	23.2	4.49	62.2
7/16/2008	0:00:00	23.2	4.49	62.3
7/16/2008	0:15:00	23.1	4.50	62.2
7/16/2008	0:30:00	23.1	4.50	62.3
7/16/2008	0:45:00	23.0	4.51	62.3
7/16/2008	1:00:00	23.0	4.52	62.4
7/16/2008	1:15:00	22.9	4.53	62.4
7/16/2008	1:30:00	22.9	4.54	62.5
7/16/2008	1:45:00	22.9	4.54	62.5
7/16/2008	2:00:00	22.8	4.55	62.5
7/16/2008	2:15:00	22.7	4.56	62.5
7/16/2008	2:30:00	22.6	4.57	62.6
7/16/2008	2:45:00	22.5	4.58	62.6
7/16/2008	3:00:00	22.5	4.59	62.7
7/16/2008	3:15:00	22.4	4.60	62.7
7/16/2008	3:30:00	22.3	4.61	62.8
7/16/2008	3:45:00	22.3	4.62	62.9
7/16/2008	4:00:00	22.3	4.62	62.9
7/16/2008	4:15:00	22.3	4.60	62.7
7/16/2008	4:30:00	22.4	4.57	62.3
7/16/2008	4:45:00	22.4	4.51	61.6
7/16/2008	5:00:00	22.4	4.45	60.7
7/16/2008	5:15:00	22.4	4.39	59.9
7/16/2008	5:30:00	22.4	4.32	59.0
7/16/2008	5:45:00	22.4	4.26	58.1
7/16/2008	6:00:00	22.4	4.19	57.2
7/16/2008	6:15:00	22.4	4.13	56.2
7/16/2008	6:30:00	22.4	4.07	55.4
7/16/2008	6:45:00	22.3	4.02	54.7
7/16/2008	7:00:00	22.3	3.99	54.3

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/16/2008	7:15:00	22.2	3.98	54.1
7/16/2008	7:30:00	22.3	3.97	54.0
7/16/2008	7:45:00	22.3	3.98	54.1
7/16/2008	8:00:00	22.3	3.98	54.3
7/16/2008	8:15:00	22.4	4.00	54.5
7/16/2008	8:30:00	22.4	4.01	54.8
7/16/2008	8:45:00	22.5	4.03	55.1
7/16/2008	9:00:00	22.6	4.05	55.5
7/16/2008	9:15:00	22.7	4.07	55.9
7/16/2008	9:30:00	22.9	4.09	56.3
7/16/2008	9:45:00	23.1	4.11	56.8
7/16/2008	10:00:00	23.2	4.12	57.1
7/16/2008	10:15:00	23.4	4.13	57.5
7/16/2008	10:30:00	23.6	4.15	58.0
7/16/2008	10:45:00	23.8	4.16	58.4
7/16/2008	11:00:00	24.0	4.17	58.7
7/16/2008	11:15:00	24.3	4.18	59.0
7/16/2008	11:30:00	24.5	4.18	59.4
7/16/2008	11:45:00	24.7	4.19	59.7
7/16/2008	12:00:00	25.0	4.20	60.2
7/16/2008	12:15:00	25.2	4.21	60.6
7/16/2008	12:30:00	25.4	4.21	60.9
7/16/2008	12:45:00	25.6	4.20	60.9
7/16/2008	13:00:00	25.8	4.18	60.9
7/16/2008	13:15:00	26.0	4.18	61.1
7/16/2008	13:30:00	26.1	4.18	61.1
7/16/2008	13:45:00	26.3	4.15	61.0
7/16/2008	14:00:00	26.4	4.11	60.5
7/16/2008	14:15:00	26.6	4.06	59.9
7/16/2008	14:30:00	26.8	4.01	59.4
7/16/2008	14:45:00	26.9	3.96	58.8
7/16/2008	15:00:00	27.0	3.95	58.7
7/16/2008	15:15:00	27.1	3.91	58.3
7/16/2008	15:30:00	27.2	3.85	57.4
7/16/2008	15:45:00	27.2	3.79	56.6
7/16/2008	16:00:00	27.3	3.75	56.1
7/16/2008	16:15:00	27.2	3.71	55.5
7/16/2008	16:30:00	27.2	3.67	54.8
7/16/2008	16:45:00	27.1	3.63	54.1
7/16/2008	17:00:00	27.2	3.56	53.2
7/16/2008	17:15:00	27.2	3.52	52.6
7/16/2008	17:30:00	27.2	3.47	51.9
7/16/2008	17:45:00	27.0	3.44	51.2
7/16/2008	18:00:00	26.9	3.43	51.0
7/16/2008	18:15:00	26.8	3.45	51.2
7/16/2008	18:30:00	26.6	3.48	51.4

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/16/2008	18:45:00	26.4	3.50	51.5
7/16/2008	19:00:00	26.2	3.52	51.5
7/16/2008	19:15:00	25.9	3.53	51.5
7/16/2008	19:30:00	25.7	3.56	51.7
7/16/2008	19:45:00	25.5	3.57	51.7
7/16/2008	20:00:00	25.3	3.58	51.6
7/16/2008	20:15:00	25.2	3.58	51.6
7/16/2008	20:30:00	25.1	3.59	51.6
7/16/2008	20:45:00	25.0	3.59	51.5
7/16/2008	21:00:00	24.9	3.59	51.4
7/16/2008	21:15:00	24.8	3.59	51.3
7/16/2008	21:30:00	24.8	3.60	51.4
7/16/2008	21:45:00	24.7	3.60	51.3
7/16/2008	22:00:00	24.6	3.60	51.2
7/16/2008	22:15:00	24.5	3.60	51.1
7/16/2008	22:30:00	24.5	3.58	50.8
7/16/2008	22:45:00	24.4	3.56	50.5
7/16/2008	23:00:00	24.3	3.56	50.3
7/16/2008	23:15:00	24.2	3.54	50.0
7/16/2008	23:30:00	24.1	3.54	49.9
7/16/2008	23:45:00	23.9	3.56	50.0
7/17/2008	0:00:00	23.8	3.58	50.1
7/17/2008	0:15:00	23.6	3.59	50.2
7/17/2008	0:30:00	23.5	3.61	50.3
7/17/2008	0:45:00	23.4	3.62	50.4
7/17/2008	1:00:00	23.2	3.63	50.3
7/17/2008	1:15:00	23.1	3.64	50.3
7/17/2008	1:30:00	23.0	3.66	50.5
7/17/2008	1:45:00	22.9	3.67	50.6
7/17/2008	2:00:00	22.9	3.68	50.6
7/17/2008	2:15:00	22.9	3.67	50.6
7/17/2008	2:30:00	22.9	3.66	50.4
7/17/2008	2:45:00	22.9	3.64	50.1
7/17/2008	3:00:00	23.0	3.58	49.4
7/17/2008	3:15:00	23.0	3.49	48.2
7/17/2008	3:30:00	23.1	3.39	46.8
7/17/2008	3:45:00	23.1	3.28	45.4
7/17/2008	4:00:00	23.1	3.17	43.8
7/17/2008	4:15:00	23.0	3.07	42.4
7/17/2008	4:30:00	23.0	2.97	41.0
7/17/2008	4:45:00	22.9	2.88	39.6
7/17/2008	5:00:00	22.8	2.78	38.3
7/17/2008	5:15:00	22.8	2.68	36.9
7/17/2008	5:30:00	22.8	2.58	35.5
7/17/2008	5:45:00	22.8	2.46	33.8
7/17/2008	6:00:00	22.7	2.34	32.1

Table 5.75. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/17/2008	6:15:00	22.7	2.23	30.6
7/17/2008	6:30:00	22.7	2.13	29.2
7/17/2008	6:45:00	22.7	2.02	27.8
7/17/2008	7:00:00	22.6	1.92	26.2
7/17/2008	7:15:00	22.5	1.82	24.9
7/17/2008	7:30:00	22.5	1.73	23.6
7/17/2008	7:45:00	22.5	1.64	22.4
7/17/2008	8:00:00	22.5	1.55	21.2
7/17/2008	8:15:00	22.5	1.47	20.1
7/17/2008	8:30:00	22.6	1.40	19.2
7/17/2008	8:45:00	22.7	1.36	18.6
7/17/2008	9:00:00	22.8	1.33	18.2
7/17/2008	9:15:00	22.9	1.31	18.0

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	36754	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**SITE2-7-11-08**
Setup	**Date**	**(MMDDYY)**	**:**	**7/11/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**144433**
Starting	**Date**	**(MMDDYY)**	**:**	**7/11/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**150000**
Stopping	**Date**	**(MMDDYY)**	**:**	**7/17/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**110000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
7/11/2008	15:15:00	23.8	266	7.81	6.49	91.4
7/11/2008	15:30:00	23.9	264	7.82	6.34	89.4
7/11/2008	15:45:00	24.0	266	7.83	6.36	89.9
7/11/2008	16:00:00	24.0	265	7.84	6.28	88.8
7/11/2008	16:15:00	23.8	267	7.84	6.31	88.9
7/11/2008	16:30:00	23.8	267	7.84	6.28	88.4
7/11/2008	16:45:00	23.7	268	7.84	6.34	89.0
7/11/2008	17:00:00	23.5	268	7.83	6.25	87.6
7/11/2008	17:15:00	23.3	269	7.84	6.28	87.7
7/11/2008	17:30:00	23.2	269	7.84	6.25	87.0
7/11/2008	17:45:00	23.0	269	7.83	6.23	86.4
7/11/2008	18:00:00	22.9	269	7.84	6.29	87.1
7/11/2008	18:15:00	22.9	270	7.83	6.27	86.8
7/11/2008	18:30:00	22.9	270	7.83	6.22	86.2
7/11/2008	18:45:00	22.9	271	7.84	6.24	86.4
7/11/2008	19:00:00	22.8	272	7.84	6.26	86.5
7/11/2008	19:15:00	22.7	273	7.84	6.28	86.7
7/11/2008	19:30:00	22.7	272	7.84	6.23	85.9
7/11/2008	19:45:00	22.6	273	7.84	6.26	86.2
7/11/2008	20:00:00	22.6	268	7.83	6.23	85.8
7/11/2008	20:15:00	22.5	269	7.84	6.26	86.1
7/11/2008	20:30:00	22.5	269	7.85	6.24	85.7
7/11/2008	20:45:00	22.4	268	7.85	6.26	85.9
7/11/2008	21:00:00	22.4	266	7.85	6.27	86.0
7/11/2008	21:15:00	22.4	266	7.84	6.24	85.5
7/11/2008	21:30:00	22.3	266	7.85	6.20	84.9
7/11/2008	21:45:00	22.3	265	7.84	6.19	84.8
7/11/2008	22:00:00	22.3	266	7.85	6.18	84.6
7/11/2008	22:15:00	22.2	266	7.84	6.14	84.0
7/11/2008	22:30:00	22.2	262	7.83	6.08	83.1
7/11/2008	22:45:00	22.1	262	7.82	6.06	82.7
7/11/2008	23:00:00	22.0	262	7.83	5.98	81.5

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/11/2008	23:15:00	22.0	258	7.82	5.97	81.2
7/11/2008	23:30:00	21.9	259	7.81	5.93	80.6
7/11/2008	23:45:00	21.9	255	7.81	5.92	80.4
7/12/2008	0:00:00	21.8	255	7.81	5.92	80.4
7/12/2008	0:15:00	21.8	253	7.81	5.92	80.3
7/12/2008	0:30:00	21.8	252	7.81	5.86	79.4
7/12/2008	0:45:00	21.8	253	7.81	5.88	79.7
7/12/2008	1:00:00	21.8	246	7.82	5.87	79.5
7/12/2008	1:15:00	21.7	248	7.82	5.88	79.7
7/12/2008	1:30:00	21.7	247	7.83	5.88	79.6
7/12/2008	1:45:00	21.6	244	7.84	5.89	79.5
7/12/2008	2:00:00	21.6	245	7.83	5.91	79.8
7/12/2008	2:15:00	21.5	244	7.86	5.93	80.0
7/12/2008	2:30:00	21.5	241	7.85	5.93	80.0
7/12/2008	2:45:00	21.5	240	7.84	5.92	79.8
7/12/2008	3:00:00	21.4	240	7.87	5.95	80.2
7/12/2008	3:15:00	21.4	238	7.86	5.94	79.9
7/12/2008	3:30:00	21.4	238	7.85	5.97	80.3
7/12/2008	3:45:00	21.3	239	7.86	5.98	80.3
7/12/2008	4:00:00	21.3	237	7.87	5.97	80.1
7/12/2008	4:15:00	21.2	236	7.88	5.97	80.1
7/12/2008	4:30:00	21.2	236	7.88	6.02	80.6
7/12/2008	4:45:00	21.2	237	7.87	5.92	79.3
7/12/2008	5:00:00	21.1	235	7.90	6.04	80.7
7/12/2008	5:15:00	21.1	237	7.89	6.02	80.5
7/12/2008	5:30:00	21.0	236	7.90	6.01	80.4
7/12/2008	5:45:00	21.0	239	7.91	6.07	81.0
7/12/2008	6:00:00	20.9	238	7.90	6.07	81.0
7/12/2008	6:15:00	20.9	238	7.90	6.05	80.6
7/12/2008	6:30:00	20.8	238	7.91	6.08	80.9
7/12/2008	6:45:00	20.8	238	7.91	6.16	81.9
7/12/2008	7:00:00	20.8	239	7.92	6.10	81.1
7/12/2008	7:15:00	20.8	240	7.91	6.10	81.1
7/12/2008	7:30:00	20.7	240	7.92	6.19	82.2
7/12/2008	7:45:00	20.8	238	7.91	6.14	81.7
7/12/2008	8:00:00	20.8	238	7.92	6.20	82.4
7/12/2008	8:15:00	20.8	237	7.92	6.21	82.6
7/12/2008	8:30:00	20.9	240	7.93	6.22	82.9
7/12/2008	8:45:00	21.0	240	7.93	6.21	83.0
7/12/2008	9:00:00	21.1	240	7.93	6.29	84.2
7/12/2008	9:15:00	21.2	242	7.93	6.30	84.5
7/12/2008	9:30:00	21.4	242	7.94	6.31	84.8
7/12/2008	9:45:00	21.5	241	7.94	6.35	85.6
7/12/2008	10:00:00	21.7	241	7.93	6.32	85.5
7/12/2008	10:15:00	21.8	243	7.94	6.34	86.0
7/12/2008	10:30:00	22.0	241	7.93	6.32	86.0

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/12/2008	10:45:00	22.1	243	7.93	6.34	86.5
7/12/2008	11:00:00	22.3	243	7.92	6.36	87.0
7/12/2008	11:15:00	22.3	244	7.92	6.42	87.8
7/12/2008	11:30:00	22.4	245	7.91	6.38	87.6
7/12/2008	11:45:00	22.5	246	7.90	6.41	88.1
7/12/2008	12:00:00	22.7	246	7.90	6.39	88.2
7/12/2008	12:15:00	22.9	246	7.90	6.37	88.3
7/12/2008	12:30:00	23.1	247	7.89	6.42	89.2
7/12/2008	12:45:00	23.3	248	7.90	6.45	90.1
7/12/2008	13:00:00	23.5	248	7.89	6.37	89.3
7/12/2008	13:15:00	23.8	248	7.88	6.38	89.8
7/12/2008	13:30:00	23.7	249	7.88	6.41	90.2
7/12/2008	13:45:00	23.8	250	7.88	6.43	90.7
7/12/2008	14:00:00	23.9	250	7.87	6.43	90.8
7/12/2008	14:15:00	24.1	248	7.88	6.43	91.1
7/12/2008	14:30:00	24.1	249	7.87	6.46	91.6
7/12/2008	14:45:00	24.2	250	7.87	6.46	91.8
7/12/2008	15:00:00	24.4	250	7.87	6.39	91.0
7/12/2008	15:15:00	24.4	250	7.87	6.36	90.6
7/12/2008	15:30:00	24.3	250	7.87	6.43	91.5
7/12/2008	15:45:00	24.3	250	7.87	6.39	90.9
7/12/2008	16:00:00	24.3	250	7.86	6.42	91.2
7/12/2008	16:15:00	24.3	251	7.86	6.35	90.3
7/12/2008	16:30:00	24.3	251	7.87	6.37	90.7
7/12/2008	16:45:00	24.4	252	7.87	6.39	90.9
7/12/2008	17:00:00	24.4	251	7.87	6.36	90.6
7/12/2008	17:15:00	24.4	253	7.87	6.35	90.5
7/12/2008	17:30:00	24.4	252	7.87	6.36	90.5
7/12/2008	17:45:00	24.4	252	7.88	6.37	90.8
7/12/2008	18:00:00	24.4	252	7.87	6.29	89.7
7/12/2008	18:15:00	24.3	253	7.88	6.32	89.9
7/12/2008	18:30:00	24.3	253	7.88	6.35	90.2
7/12/2008	18:45:00	24.3	253	7.89	6.36	90.4
7/12/2008	19:00:00	24.2	252	7.89	6.30	89.5
7/12/2008	19:15:00	24.1	252	7.89	6.28	88.9
7/12/2008	19:30:00	24.0	252	7.90	6.31	89.1
7/12/2008	19:45:00	23.8	251	7.90	6.30	88.8
7/12/2008	20:00:00	23.7	251	7.90	6.29	88.4
7/12/2008	20:15:00	23.5	252	7.91	6.31	88.4
7/12/2008	20:30:00	23.3	253	7.91	6.31	88.1
7/12/2008	20:45:00	23.1	253	7.91	6.33	88.0
7/12/2008	21:00:00	23.0	253	7.91	6.31	87.6
7/12/2008	21:15:00	22.9	253	7.92	6.33	87.8
7/12/2008	21:30:00	22.8	253	7.92	6.31	87.3
7/12/2008	21:45:00	22.8	253	7.92	6.32	87.3
7/12/2008	22:00:00	22.7	253	7.91	6.32	87.1

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/12/2008	22:15:00	22.6	253	7.91	6.26	86.1
7/12/2008	22:30:00	22.5	253	7.92	6.30	86.5
7/12/2008	22:45:00	22.4	253	7.92	6.31	86.6
7/12/2008	23:00:00	22.3	253	7.92	6.25	85.6
7/12/2008	23:15:00	22.3	253	7.92	6.30	86.2
7/12/2008	23:30:00	22.3	253	7.93	6.29	86.0
7/12/2008	23:45:00	22.3	253	7.93	6.28	85.9
7/13/2008	0:00:00	22.3	253	7.93	6.32	86.4
7/13/2008	0:15:00	22.2	253	7.94	6.26	85.7
7/13/2008	0:30:00	22.3	253	7.93	6.26	85.6
7/13/2008	0:45:00	22.2	252	7.93	6.24	85.3
7/13/2008	1:00:00	22.2	252	7.94	6.25	85.4
7/13/2008	1:15:00	22.1	252	7.94	6.25	85.3
7/13/2008	1:30:00	22.1	252	7.94	6.24	85.2
7/13/2008	1:45:00	22.1	252	7.95	6.20	84.6
7/13/2008	2:00:00	22.0	251	7.95	6.25	85.2
7/13/2008	2:15:00	22.0	251	7.95	6.23	84.8
7/13/2008	2:30:00	22.0	251	7.96	6.24	84.9
7/13/2008	2:45:00	22.0	250	7.97	6.21	84.5
7/13/2008	3:00:00	22.0	250	7.97	6.22	84.7
7/13/2008	3:15:00	22.0	250	7.98	6.25	85.1
7/13/2008	3:30:00	22.0	250	7.98	6.23	84.8
7/13/2008	3:45:00	22.0	250	7.99	6.22	84.7
7/13/2008	4:00:00	22.0	249	7.99	6.21	84.6
7/13/2008	4:15:00	22.1	248	7.96	6.09	83.0
7/13/2008	4:30:00	22.3	238	7.76	5.26	72.0
7/13/2008	4:45:00	22.6	224	7.48	4.22	58.1
7/13/2008	5:00:00	22.9	211	7.27	3.38	46.7
7/13/2008	5:15:00	22.9	203	7.11	2.76	38.2
7/13/2008	5:30:00	22.6	209	7.09	2.94	40.5
7/13/2008	5:45:00	22.1	210	7.19	3.51	47.9
7/13/2008	6:00:00	21.8	200	7.32	4.17	56.5
7/13/2008	6:15:00	21.6	188	7.40	4.37	59.0
7/13/2008	6:30:00	21.5	182	7.51	4.61	62.2
7/13/2008	6:45:00	21.4	181	7.58	4.88	65.6
7/13/2008	7:00:00	21.4	178	7.68	5.07	68.2
7/13/2008	7:15:00	21.3	180	7.77	5.24	70.4
7/13/2008	7:30:00	21.3	183	7.81	5.34	71.7
7/13/2008	7:45:00	21.3	185	7.84	5.42	72.7
7/13/2008	8:00:00	21.3	190	7.86	5.41	72.7
7/13/2008	8:15:00	21.3	189	7.88	5.46	73.3
7/13/2008	8:30:00	21.4	200	7.89	5.49	73.9
7/13/2008	8:45:00	21.3	201	7.90	5.54	74.4
7/13/2008	9:00:00	21.3	205	7.91	5.62	75.6
7/13/2008	9:15:00	21.4	214	7.92	5.65	76.0
7/13/2008	9:30:00	21.4	217	7.92	5.65	76.0

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/13/2008	9:45:00	21.4	213	7.91	5.69	76.5
7/13/2008	10:00:00	21.4	216	7.92	5.78	77.8
7/13/2008	10:15:00	21.4	217	7.92	5.79	77.9
7/13/2008	10:30:00	21.5	222	7.92	5.80	78.1
7/13/2008	10:45:00	21.6	224	7.91	5.83	78.6
7/13/2008	11:00:00	21.6	227	7.91	5.95	80.4
7/13/2008	11:15:00	21.7	228	7.92	6.01	81.3
7/13/2008	11:30:00	21.7	233	7.91	5.97	80.8
7/13/2008	11:45:00	21.8	232	7.91	6.02	81.7
7/13/2008	12:00:00	21.9	239	7.91	5.98	81.3
7/13/2008	12:15:00	22.0	235	7.90	6.04	82.3
7/13/2008	12:30:00	22.1	239	7.91	6.10	83.1
7/13/2008	12:45:00	22.1	237	7.90	6.07	82.8
7/13/2008	13:00:00	22.2	239	7.89	6.06	82.8
7/13/2008	13:15:00	22.3	242	7.89	6.13	83.9
7/13/2008	13:30:00	22.4	242	7.88	6.16	84.5
7/13/2008	13:45:00	22.4	243	7.88	6.17	84.6
7/13/2008	14:00:00	22.5	243	7.87	6.18	84.9
7/13/2008	14:15:00	22.7	246	7.88	6.22	85.8
7/13/2008	14:30:00	22.9	250	7.88	6.22	86.1
7/13/2008	14:45:00	23.1	249	7.86	6.24	86.7
7/13/2008	15:00:00	23.2	248	7.86	6.23	86.8
7/13/2008	15:15:00	23.3	250	7.87	6.30	87.9
7/13/2008	15:30:00	23.5	251	7.86	6.27	87.8
7/13/2008	15:45:00	23.7	250	7.86	6.25	87.9
7/13/2008	16:00:00	23.9	251	7.87	6.27	88.5
7/13/2008	16:15:00	24.0	248	7.86	6.26	88.6
7/13/2008	16:30:00	24.1	248	7.86	6.23	88.3
7/13/2008	16:45:00	24.1	247	7.86	6.27	88.9
7/13/2008	17:00:00	24.1	245	7.86	6.23	88.2
7/13/2008	17:15:00	24.0	239	7.87	6.27	88.7
7/13/2008	17:30:00	24.1	238	7.86	6.24	88.4
7/13/2008	17:45:00	24.1	236	7.87	6.30	89.3
7/13/2008	18:00:00	24.0	238	7.87	6.32	89.5
7/13/2008	18:15:00	24.0	242	7.87	6.28	88.8
7/13/2008	18:30:00	24.0	237	7.87	6.27	88.6
7/13/2008	18:45:00	23.9	236	7.87	6.24	88.1
7/13/2008	19:00:00	23.8	252	7.88	6.30	88.8
7/13/2008	19:15:00	23.7	252	7.87	6.25	87.9
7/13/2008	19:30:00	23.6	245	7.88	6.29	88.3
7/13/2008	19:45:00	23.4	243	7.88	6.23	87.1
7/13/2008	20:00:00	23.3	243	7.89	6.24	87.1
7/13/2008	20:15:00	23.2	235	7.88	6.25	87.1
7/13/2008	20:30:00	23.1	231	7.89	6.27	87.0
7/13/2008	20:45:00	23.0	234	7.89	6.24	86.5
7/13/2008	21:00:00	22.9	230	7.89	6.24	86.5

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/13/2008	21:15:00	22.8	231	7.89	6.29	86.9
7/13/2008	21:30:00	22.7	230	7.89	6.23	85.9
7/13/2008	21:45:00	22.6	227	7.90	6.22	85.6
7/13/2008	22:00:00	22.5	228	7.90	6.24	85.7
7/13/2008	22:15:00	22.4	234	7.89	6.21	85.2
7/13/2008	22:30:00	22.3	237	7.90	6.21	85.1
7/13/2008	22:45:00	22.3	234	7.89	6.29	86.1
7/13/2008	23:00:00	22.2	234	7.90	6.27	85.7
7/13/2008	23:15:00	22.2	231	7.89	6.22	85.0
7/13/2008	23:30:00	22.1	232	7.90	6.19	84.4
7/13/2008	23:45:00	22.1	232	7.89	6.26	85.3
7/14/2008	0:00:00	22.0	236	7.90	6.22	84.7
7/14/2008	0:15:00	21.9	233	7.91	6.23	84.8
7/14/2008	0:30:00	21.9	235	7.90	6.23	84.7
7/14/2008	0:45:00	21.8	233	7.90	6.24	84.7
7/14/2008	1:00:00	21.8	229	7.91	6.23	84.4
7/14/2008	1:15:00	21.7	224	7.91	6.33	85.6
7/14/2008	1:30:00	21.6	221	7.91	6.25	84.6
7/14/2008	1:45:00	21.6	221	7.92	6.29	84.9
7/14/2008	2:00:00	21.6	218	7.91	6.27	84.6
7/14/2008	2:15:00	21.5	218	7.92	6.21	83.8
7/14/2008	2:30:00	21.5	216	7.92	6.25	84.2
7/14/2008	2:45:00	21.5	215	7.92	6.22	83.9
7/14/2008	3:00:00	21.5	215	7.93	6.19	83.4
7/14/2008	3:15:00	21.5	216	7.93	6.29	84.7
7/14/2008	3:30:00	21.5	215	7.93	6.26	84.3
7/14/2008	3:45:00	21.4	212	7.94	6.18	83.2
7/14/2008	4:00:00	21.4	218	7.95	6.25	84.2
7/14/2008	4:15:00	21.4	218	7.95	6.24	84.0
7/14/2008	4:30:00	21.4	218	7.95	6.24	84.1
7/14/2008	4:45:00	21.4	219	7.95	6.18	83.2
7/14/2008	5:00:00	21.4	219	7.96	6.20	83.4
7/14/2008	5:15:00	21.4	222	7.95	6.21	83.5
7/14/2008	5:30:00	21.4	223	7.95	6.21	83.6
7/14/2008	5:45:00	21.4	224	7.95	6.22	83.7
7/14/2008	6:00:00	21.4	223	7.96	6.24	84.0
7/14/2008	6:15:00	21.4	222	7.96	6.22	83.8
7/14/2008	6:30:00	21.4	224	7.95	6.28	84.6
7/14/2008	6:45:00	21.5	227	7.95	6.18	83.2
7/14/2008	7:00:00	21.5	233	7.96	6.21	83.7
7/14/2008	7:15:00	21.5	240	7.97	6.18	83.3
7/14/2008	7:30:00	21.5	249	7.97	6.20	83.6
7/14/2008	7:45:00	21.5	258	7.97	6.13	82.7
7/14/2008	8:00:00	21.5	265	7.97	6.20	83.6
7/14/2008	8:15:00	21.5	272	7.98	6.17	83.2
7/14/2008	8:30:00	21.5	277	7.98	6.21	83.8

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/14/2008	8:45:00	21.5	278	7.99	6.23	84.1
7/14/2008	9:00:00	21.6	278	7.99	6.28	84.9
7/14/2008	9:15:00	21.7	278	7.99	6.26	84.6
7/14/2008	9:30:00	21.7	278	8.00	6.29	85.2
7/14/2008	9:45:00	21.8	277	7.99	6.27	85.0
7/14/2008	10:00:00	21.9	277	7.99	6.33	85.9
7/14/2008	10:15:00	21.9	275	7.98	6.25	84.9
7/14/2008	10:30:00	21.9	272	7.98	6.18	84.1
7/14/2008	10:45:00	22.1	269	7.98	6.25	85.2
7/14/2008	11:00:00	22.3	269	7.97	6.29	86.1
7/14/2008	11:15:00	22.4	266	7.97	6.29	86.3
7/14/2008	11:30:00	22.6	265	7.96	6.28	86.4
7/14/2008	11:45:00	22.7	264	7.95	6.29	86.9
7/14/2008	12:00:00	22.8	263	7.94	6.35	87.8
7/14/2008	12:15:00	23.0	260	7.94	6.28	87.1
7/14/2008	12:30:00	23.1	257	7.93	6.28	87.3
7/14/2008	12:45:00	23.3	255	7.92	6.28	87.6
7/14/2008	13:00:00	23.4	253	7.92	6.31	88.2
7/14/2008	13:15:00	23.5	253	7.91	6.33	88.8
7/14/2008	13:30:00	23.7	252	7.90	6.24	87.9
7/14/2008	13:45:00	23.7	251	7.89	6.32	88.9
7/14/2008	14:00:00	23.7	248	7.89	6.21	87.2
7/14/2008	14:15:00	23.7	248	7.88	6.32	88.8
7/14/2008	14:30:00	23.7	246	7.88	6.24	87.6
7/14/2008	14:45:00	23.7	247	7.87	6.26	88.0
7/14/2008	15:00:00	23.6	243	7.87	6.32	88.6
7/14/2008	15:15:00	23.6	242	7.85	6.31	88.5
7/14/2008	15:30:00	23.6	242	7.85	6.31	88.5
7/14/2008	15:45:00	23.4	241	7.85	6.28	87.9
7/14/2008	16:00:00	23.3	240	7.84	6.29	87.9
7/14/2008	16:15:00	23.2	238	7.85	6.26	87.2
7/14/2008	16:30:00	23.1	237	7.85	6.34	88.2
7/14/2008	16:45:00	23.0	236	7.85	6.27	87.1
7/14/2008	17:00:00	23.0	235	7.84	6.35	88.1
7/14/2008	17:15:00	22.9	234	7.84	6.34	87.8
7/14/2008	17:30:00	22.9	233	7.85	6.34	87.8
7/14/2008	17:45:00	22.8	233	7.84	6.33	87.6
7/14/2008	18:00:00	22.8	230	7.83	6.31	87.2
7/14/2008	18:15:00	22.7	227	7.83	6.34	87.5
7/14/2008	18:30:00	22.7	225	7.84	6.32	87.1
7/14/2008	18:45:00	22.6	225	7.84	6.26	86.2
7/14/2008	19:00:00	22.6	223	7.85	6.33	87.1
7/14/2008	19:15:00	22.5	221	7.84	6.33	87.1
7/14/2008	19:30:00	22.5	220	7.86	6.27	86.1
7/14/2008	19:45:00	22.4	219	7.85	6.31	86.7
7/14/2008	20:00:00	22.4	218	7.85	6.33	86.8

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/14/2008	20:15:00	22.3	217	7.85	6.27	85.9
7/14/2008	20:30:00	22.3	215	7.85	6.30	86.2
7/14/2008	20:45:00	22.2	214	7.86	6.28	85.9
7/14/2008	21:00:00	22.2	213	7.86	6.28	85.8
7/14/2008	21:15:00	22.1	212	7.86	6.32	86.2
7/14/2008	21:30:00	22.1	212	7.87	6.21	84.6
7/14/2008	21:45:00	22.1	211	7.86	6.25	85.2
7/14/2008	22:00:00	22.0	212	7.87	6.27	85.4
7/14/2008	22:15:00	22.0	209	7.88	6.30	85.7
7/14/2008	22:30:00	21.9	209	7.87	6.29	85.5
7/14/2008	22:45:00	21.9	208	7.88	6.24	84.7
7/14/2008	23:00:00	21.9	207	7.88	6.23	84.6
7/14/2008	23:15:00	21.8	207	7.89	6.23	84.5
7/14/2008	23:30:00	21.8	205	7.89	6.19	83.8
7/14/2008	23:45:00	21.7	205	7.89	6.19	83.7
7/15/2008	0:00:00	21.7	205	7.89	6.28	84.9
7/15/2008	0:15:00	21.6	205	7.90	6.26	84.5
7/15/2008	0:30:00	21.6	203	7.91	6.24	84.2
7/15/2008	0:45:00	21.6	202	7.90	6.23	84.1
7/15/2008	1:00:00	21.5	201	7.91	6.17	83.2
7/15/2008	1:15:00	21.5	200	7.91	6.22	84.0
7/15/2008	1:30:00	21.5	201	7.93	6.21	83.6
7/15/2008	1:45:00	21.5	202	7.94	6.20	83.5
7/15/2008	2:00:00	21.5	200	7.93	6.23	83.9
7/15/2008	2:15:00	21.4	199	7.94	6.17	83.0
7/15/2008	2:30:00	21.4	199	7.94	6.22	83.8
7/15/2008	2:45:00	21.4	199	7.95	6.24	84.0
7/15/2008	3:00:00	21.4	199	7.96	6.20	83.4
7/15/2008	3:15:00	21.3	200	7.97	6.19	83.1
7/15/2008	3:30:00	21.3	199	7.97	6.18	83.0
7/15/2008	3:45:00	21.3	198	7.98	6.29	84.4
7/15/2008	4:00:00	21.3	196	7.97	6.22	83.4
7/15/2008	4:15:00	21.2	196	7.99	6.24	83.7
7/15/2008	4:30:00	21.2	195	7.99	6.17	82.7
7/15/2008	4:45:00	21.2	194	8.00	6.23	83.5
7/15/2008	5:00:00	21.2	195	8.00	6.20	83.0
7/15/2008	5:15:00	21.1	194	8.00	6.23	83.3
7/15/2008	5:30:00	21.1	194	8.01	6.27	83.9
7/15/2008	5:45:00	21.1	194	8.02	6.26	83.6
7/15/2008	6:00:00	21.0	194	8.02	6.28	83.9
7/15/2008	6:15:00	21.0	194	8.02	6.17	82.4
7/15/2008	6:30:00	20.9	193	8.03	6.26	83.4
7/15/2008	6:45:00	20.9	193	8.04	6.26	83.4
7/15/2008	7:00:00	20.9	193	8.04	6.27	83.5
7/15/2008	7:15:00	20.9	193	8.05	6.34	84.4
7/15/2008	7:30:00	20.9	192	8.06	6.32	84.3

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/15/2008	7:45:00	20.9	192	8.05	6.31	84.1
7/15/2008	8:00:00	21.0	192	8.05	6.30	84.1
7/15/2008	8:15:00	21.0	208	8.05	6.12	81.8
7/15/2008	8:30:00	21.1	208	8.06	6.07	81.2
7/15/2008	8:45:00	21.2	207	8.06	6.12	81.9
7/15/2008	9:00:00	21.3	207	8.05	6.07	81.4
7/15/2008	9:15:00	21.4	208	8.05	6.07	81.7
7/15/2008	9:30:00	21.5	208	8.05	6.09	82.2
7/15/2008	9:45:00	21.7	208	8.04	6.10	82.6
7/15/2008	10:00:00	21.9	208	8.04	6.08	82.6
7/15/2008	10:15:00	22.0	208	8.04	6.16	83.9
7/15/2008	10:30:00	22.2	208	8.03	6.18	84.5
7/15/2008	10:45:00	22.4	208	8.01	6.11	83.8
7/15/2008	11:00:00	22.6	208	8.00	6.16	84.7
7/15/2008	11:15:00	22.8	208	8.00	6.12	84.5
7/15/2008	11:30:00	22.9	208	7.99	6.16	85.4
7/15/2008	11:45:00	23.1	208	7.99	6.14	85.4
7/15/2008	12:00:00	23.3	208	7.98	6.23	87.0
7/15/2008	12:15:00	23.5	208	7.97	6.15	86.2
7/15/2008	12:30:00	23.7	208	7.96	6.17	86.8
7/15/2008	12:45:00	23.9	209	7.95	6.16	86.9
7/15/2008	13:00:00	24.0	208	7.95	6.23	88.1
7/15/2008	13:15:00	24.2	206	7.94	6.12	86.8
7/15/2008	13:30:00	24.4	205	7.93	6.12	87.2
7/15/2008	13:45:00	24.6	204	7.91	6.07	86.8
7/15/2008	14:00:00	24.7	204	7.92	6.03	86.4
7/15/2008	14:15:00	24.9	204	7.91	6.05	86.9
7/15/2008	14:30:00	24.9	204	7.91	6.07	87.2
7/15/2008	14:45:00	24.9	204	7.90	5.98	86.0
7/15/2008	15:00:00	24.9	204	7.90	6.04	86.9
7/15/2008	15:15:00	25.1	204	7.89	6.00	86.5
7/15/2008	15:30:00	25.2	204	7.90	5.98	86.5
7/15/2008	15:45:00	25.3	204	7.90	5.97	86.4
7/15/2008	16:00:00	25.3	204	7.90	6.00	87.0
7/15/2008	16:15:00	25.4	205	7.90	6.07	88.1
7/15/2008	16:30:00	25.5	205	7.89	5.94	86.3
7/15/2008	16:45:00	25.6	205	7.90	5.97	86.9
7/15/2008	17:00:00	25.7	205	7.89	5.92	86.4
7/15/2008	17:15:00	25.8	205	7.90	5.97	87.1
7/15/2008	17:30:00	25.7	205	7.90	5.99	87.4
7/15/2008	17:45:00	25.8	206	7.89	5.95	86.8
7/15/2008	18:00:00	25.8	206	7.90	5.93	86.7
7/15/2008	18:15:00	25.7	206	7.89	5.93	86.5
7/15/2008	18:30:00	25.6	206	7.89	5.91	86.0
7/15/2008	18:45:00	25.5	205	7.90	5.90	85.7
7/15/2008	19:00:00	25.4	206	7.91	5.87	85.2

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/15/2008	19:15:00	25.3	206	7.90	5.90	85.5
7/15/2008	19:30:00	25.2	206	7.90	5.86	84.8
7/15/2008	19:45:00	25.1	206	7.91	5.88	84.8
7/15/2008	20:00:00	25.0	206	7.91	5.84	84.1
7/15/2008	20:15:00	24.9	205	7.92	5.78	83.1
7/15/2008	20:30:00	24.8	205	7.91	5.81	83.4
7/15/2008	20:45:00	24.6	205	7.91	5.88	84.0
7/15/2008	21:00:00	24.4	205	7.92	5.78	82.4
7/15/2008	21:15:00	24.3	205	7.91	5.83	82.9
7/15/2008	21:30:00	24.2	205	7.92	5.79	82.2
7/15/2008	21:45:00	24.1	205	7.93	5.81	82.2
7/15/2008	22:00:00	23.9	205	7.93	5.72	80.6
7/15/2008	22:15:00	23.6	205	7.94	5.82	81.7
7/15/2008	22:30:00	23.5	205	7.93	5.80	81.1
7/15/2008	22:45:00	23.3	205	7.94	5.76	80.4
7/15/2008	23:00:00	23.2	204	7.93	5.81	80.9
7/15/2008	23:15:00	23.1	205	7.95	5.79	80.4
7/15/2008	23:30:00	23.0	205	7.95	5.77	80.0
7/15/2008	23:45:00	23.0	205	7.96	5.88	81.6
7/16/2008	0:00:00	23.0	204	7.96	5.82	80.7
7/16/2008	0:15:00	22.9	204	7.95	5.76	79.9
7/16/2008	0:30:00	22.9	204	7.97	5.87	81.3
7/16/2008	0:45:00	22.8	204	7.95	5.75	79.5
7/16/2008	1:00:00	22.8	204	7.97	5.89	81.5
7/16/2008	1:15:00	22.8	204	7.97	5.82	80.4
7/16/2008	1:30:00	22.7	204	7.98	5.86	80.9
7/16/2008	1:45:00	22.7	204	7.98	5.85	80.7
7/16/2008	2:00:00	22.6	204	7.98	5.73	78.8
7/16/2008	2:15:00	22.5	205	7.99	5.78	79.5
7/16/2008	2:30:00	22.4	204	8.00	5.82	79.9
7/16/2008	2:45:00	22.3	204	7.99	5.79	79.4
7/16/2008	3:00:00	22.3	205	8.01	5.79	79.3
7/16/2008	3:15:00	22.2	205	8.01	5.78	79.0
7/16/2008	3:30:00	22.1	205	8.01	5.78	78.8
7/16/2008	3:45:00	22.1	205	8.01	5.72	78.0
7/16/2008	4:00:00	22.1	205	8.01	5.70	77.7
7/16/2008	4:15:00	22.1	204	8.01	5.57	75.9
7/16/2008	4:30:00	22.1	204	7.99	5.51	75.1
7/16/2008	4:45:00	22.2	204	7.99	5.44	74.3
7/16/2008	5:00:00	22.2	203	7.97	5.36	73.3
7/16/2008	5:15:00	22.2	203	7.96	5.28	72.2
7/16/2008	5:30:00	22.2	203	7.96	5.23	71.5
7/16/2008	5:45:00	22.2	203	7.95	5.17	70.7
7/16/2008	6:00:00	22.2	202	7.95	5.18	70.7
7/16/2008	6:15:00	22.2	202	7.95	5.20	71.0
7/16/2008	6:30:00	22.1	202	7.97	5.18	70.7

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/16/2008	6:45:00	22.1	202	7.95	5.11	69.6
7/16/2008	7:00:00	22.1	202	7.96	5.12	69.7
7/16/2008	7:15:00	22.1	202	7.96	5.14	70.0
7/16/2008	7:30:00	22.0	202	7.99	5.23	71.3
7/16/2008	7:45:00	22.1	202	7.99	5.18	70.6
7/16/2008	8:00:00	22.1	202	8.01	5.23	71.3
7/16/2008	8:15:00	22.1	202	8.01	5.31	72.5
7/16/2008	8:30:00	22.2	202	8.01	5.38	73.5
7/16/2008	8:45:00	22.3	202	8.02	5.32	72.8
7/16/2008	9:00:00	22.4	202	8.03	5.39	73.9
7/16/2008	9:15:00	22.5	203	8.04	5.42	74.5
7/16/2008	9:30:00	22.7	203	8.05	5.41	74.6
7/16/2008	9:45:00	22.8	203	8.04	5.36	74.2
7/16/2008	10:00:00	23.0	204	8.04	5.42	75.2
7/16/2008	10:15:00	23.2	204	8.04	5.40	75.2
7/16/2008	10:30:00	23.4	204	8.04	5.39	75.3
7/16/2008	10:45:00	23.6	205	8.03	5.41	76.0
7/16/2008	11:00:00	23.8	205	8.02	5.37	75.7
7/16/2008	11:15:00	24.0	205	8.02	5.49	77.6
7/16/2008	11:30:00	24.3	206	8.03	5.43	77.2
7/16/2008	11:45:00	24.5	206	8.02	5.52	78.8
7/16/2008	12:00:00	24.7	207	8.01	5.41	77.5
7/16/2008	12:15:00	25.0	207	8.00	5.48	78.9
7/16/2008	12:30:00	25.2	207	8.00	5.55	80.2
7/16/2008	12:45:00	25.4	208	7.99	5.46	79.2
7/16/2008	13:00:00	25.6	208	7.97	5.49	80.0
7/16/2008	13:15:00	25.7	209	7.97	5.57	81.3
7/16/2008	13:30:00	25.9	209	7.96	5.52	80.8
7/16/2008	13:45:00	26.0	210	7.95	5.48	80.5
7/16/2008	14:00:00	26.2	210	7.94	5.54	81.6
7/16/2008	14:15:00	26.4	210	7.92	5.51	81.5
7/16/2008	14:30:00	26.5	210	7.92	5.53	81.9
7/16/2008	14:45:00	26.6	211	7.90	5.58	82.8
7/16/2008	15:00:00	26.7	211	7.90	5.44	80.9
7/16/2008	15:15:00	26.9	211	7.90	5.57	83.0
7/16/2008	15:30:00	26.9	211	7.88	5.44	81.2
7/16/2008	15:45:00	27.0	212	7.89	5.54	82.8
7/16/2008	16:00:00	27.0	212	7.89	5.53	82.6
7/16/2008	16:15:00	27.0	212	7.88	5.41	80.8
7/16/2008	16:30:00	27.0	212	7.88	5.38	80.3
7/16/2008	16:45:00	26.9	212	7.88	5.40	80.6
7/16/2008	17:00:00	27.0	212	7.86	5.43	81.1
7/16/2008	17:15:00	27.0	212	7.87	5.44	81.2
7/16/2008	17:30:00	27.0	212	7.86	5.33	79.6
7/16/2008	17:45:00	26.8	212	7.85	5.51	82.1
7/16/2008	18:00:00	26.6	212	7.86	5.58	82.8

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/16/2008	18:15:00	26.6	212	7.84	5.43	80.5
7/16/2008	18:30:00	26.4	212	7.83	5.50	81.2
7/16/2008	18:45:00	26.2	212	7.83	5.47	80.5
7/16/2008	19:00:00	26.0	211	7.83	5.45	79.9
7/16/2008	19:15:00	25.7	211	7.83	5.42	79.1
7/16/2008	19:30:00	25.5	211	7.82	5.48	79.7
7/16/2008	19:45:00	25.4	211	7.83	5.48	79.5
7/16/2008	20:00:00	25.2	211	7.82	5.48	79.1
7/16/2008	20:15:00	25.0	211	7.82	5.52	79.5
7/16/2008	20:30:00	24.9	211	7.82	5.51	79.2
7/16/2008	20:45:00	24.8	211	7.81	5.47	78.4
7/16/2008	21:00:00	24.7	211	7.82	5.50	78.9
7/16/2008	21:15:00	24.6	211	7.83	5.55	79.4
7/16/2008	21:30:00	24.6	211	7.83	5.49	78.5
7/16/2008	21:45:00	24.5	211	7.83	5.46	77.9
7/16/2008	22:00:00	24.4	211	7.83	5.46	77.8
7/16/2008	22:15:00	24.3	211	7.84	5.54	78.8
7/16/2008	22:30:00	24.3	211	7.84	5.53	78.6
7/16/2008	22:45:00	24.2	212	7.86	5.64	80.1
7/16/2008	23:00:00	24.1	212	7.84	5.45	77.3
7/16/2008	23:15:00	24.0	212	7.85	5.58	78.9
7/16/2008	23:30:00	23.9	212	7.86	5.48	77.3
7/16/2008	23:45:00	23.8	212	7.88	5.55	78.1
7/17/2008	0:00:00	23.6	212	7.87	5.48	76.9
7/17/2008	0:15:00	23.5	212	7.88	5.51	77.1
7/17/2008	0:30:00	23.3	212	7.89	5.59	78.0
7/17/2008	0:45:00	23.2	212	7.88	5.51	76.8
7/17/2008	1:00:00	23.1	211	7.89	5.48	76.1
7/17/2008	1:15:00	22.9	211	7.90	5.61	77.7
7/17/2008	1:30:00	22.8	211	7.90	5.55	76.8
7/17/2008	1:45:00	22.7	211	7.91	5.62	77.5
7/17/2008	2:00:00	22.7	211	7.91	5.60	77.2
7/17/2008	2:15:00	22.7	211	7.92	5.52	76.0
7/17/2008	2:30:00	22.6	211	7.91	5.54	76.4
7/17/2008	2:45:00	22.7	211	7.89	5.25	72.5
7/17/2008	3:00:00	22.8	210	7.87	5.22	72.1
7/17/2008	3:15:00	22.8	210	7.88	5.16	71.3
7/17/2008	3:30:00	22.9	210	7.85	4.93	68.3
7/17/2008	3:45:00	22.9	209	7.83	4.88	67.6
7/17/2008	4:00:00	22.9	209	7.84	4.88	67.5
7/17/2008	4:15:00	22.8	209	7.84	4.65	64.3
7/17/2008	4:30:00	22.8	208	7.85	4.69	64.8
7/17/2008	4:45:00	22.7	208	7.84	4.76	65.8
7/17/2008	5:00:00	22.6	208	7.83	4.60	63.3
7/17/2008	5:15:00	22.6	207	7.81	4.60	63.4
7/17/2008	5:30:00	22.6	206	7.78	4.44	61.2

Table 5.76. Water quality measurements at Site 2, Rio Grande at Alameda, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/17/2008	5:45:00	22.6	205	7.76	4.44	61.1
7/17/2008	6:00:00	22.5	205	7.75	4.34	59.7
7/17/2008	6:15:00	22.5	204	7.73	4.24	58.4
7/17/2008	6:30:00	22.5	204	7.73	4.21	57.9
7/17/2008	6:45:00	22.5	203	7.70	4.21	57.8
7/17/2008	7:00:00	22.4	203	7.72	4.26	58.3
7/17/2008	7:15:00	22.4	202	7.70	4.19	57.4
7/17/2008	7:30:00	22.3	202	7.72	4.30	58.8
7/17/2008	7:45:00	22.3	202	7.74	4.33	59.2
7/17/2008	8:00:00	22.3	202	7.77	4.51	61.7
7/17/2008	8:15:00	22.3	201	7.79	4.50	61.6
7/17/2008	8:30:00	22.4	201	7.80	4.46	61.2
7/17/2008	8:45:00	22.5	201	7.82	4.57	62.7
7/17/2008	9:00:00	22.5	201	7.85	4.66	64.0
7/17/2008	9:15:00	22.7	201	7.87	4.69	64.7

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40183**	**Name**	**:**	**Marge**
Log	**File**	**Name**	**:**	**SITE3-07-11-08**
Setup	**Date**	**(MMDDYY)**	**:**	**71008**
Setup	**Time**	**(HHMMSS)**	**:**	**121005**
Starting	**Date**	**(MMDDYY)**	**:**	**71108**
Starting	**Time**	**(HHMMSS)**	**:**	**130000**
Stopping	**Date**	**(MMDDYY)**	**:**	**71708**
Stopping	**Time**	**(HHMMSS)**	**:**	**100000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
7/11/2008	13:00:00	23.8	313	7.97	6.39	89.5
7/11/2008	13:15:00	24.1	314	7.96	6.30	88.9
7/11/2008	13:30:00	24.2	314	7.95	6.32	89.2
7/11/2008	13:45:00	24.2	315	7.94	6.29	88.9
7/11/2008	14:00:00	24.3	315	7.94	6.12	86.7
7/11/2008	14:15:00	24.6	316	7.94	6.12	87.1
7/11/2008	14:30:00	24.7	318	7.93	6.24	89.1
7/11/2008	14:45:00	25.0	319	7.94	6.25	89.6
7/11/2008	15:00:00	25.1	319	7.95	6.30	90.5
7/11/2008	15:15:00	25.1	321	7.94	6.23	89.6
7/11/2008	15:30:00	25.1	322	7.95	6.21	89.2
7/11/2008	15:45:00	25.0	323	7.94	6.33	90.8
7/11/2008	16:00:00	24.9	324	7.94	6.17	88.4
7/11/2008	16:15:00	24.8	324	7.94	6.27	89.6
7/11/2008	16:30:00	24.8	325	7.94	6.03	86.2
7/11/2008	16:45:00	24.8	325	7.94	5.92	84.6
7/11/2008	17:00:00	24.8	325	7.95	6.01	85.8
7/11/2008	17:15:00	24.7	324	7.94	5.99	85.5
7/11/2008	17:30:00	24.8	324	7.95	6.18	88.2
7/11/2008	17:45:00	24.7	322	7.95	6.14	87.6
7/11/2008	18:00:00	24.7	318	7.97	6.15	87.7
7/11/2008	18:15:00	24.6	317	7.98	6.15	87.5
7/11/2008	18:30:00	24.5	316	7.98	6.08	86.5
7/11/2008	18:45:00	24.4	316	7.99	6.15	87.3
7/11/2008	19:00:00	24.4	315	7.99	6.19	87.8
7/11/2008	19:15:00	24.4	316	7.98	6.13	86.8
7/11/2008	19:30:00	24.4	315	7.98	6.11	86.6
7/11/2008	19:45:00	24.4	314	7.99	6.03	85.5
7/11/2008	20:00:00	24.4	313	7.98	5.99	84.9
7/11/2008	20:15:00	24.4	313	7.97	6.11	86.6
7/11/2008	20:30:00	24.3	314	7.96	6.09	86.3
7/11/2008	20:45:00	24.3	315	7.95	6.06	85.8

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/11/2008	21:00:00	24.3	315	7.94	5.94	84.1
7/11/2008	21:15:00	24.3	315	7.94	6.05	85.6
7/11/2008	21:30:00	24.3	314	7.93	6.08	86.0
7/11/2008	21:45:00	24.3	313	7.93	6.04	85.4
7/11/2008	22:00:00	24.3	313	7.93	5.78	81.8
7/11/2008	22:15:00	24.3	313	7.92	6.00	84.9
7/11/2008	22:30:00	24.4	313	7.92	5.63	79.8
7/11/2008	22:45:00	24.4	314	7.91	5.90	83.6
7/11/2008	23:00:00	24.4	314	7.91	5.97	84.6
7/11/2008	23:15:00	24.3	314	7.90	6.06	85.8
7/11/2008	23:30:00	24.3	313	7.89	5.78	81.8
7/11/2008	23:45:00	24.3	313	7.89	5.86	82.9
7/12/2008	0:00:00	24.2	312	7.89	5.85	82.7
7/12/2008	0:15:00	24.1	313	7.88	5.93	83.6
7/12/2008	0:30:00	24.0	313	7.88	5.91	83.2
7/12/2008	0:45:00	23.9	313	7.87	5.89	82.8
7/12/2008	1:00:00	23.8	314	7.87	5.79	81.2
7/12/2008	1:15:00	23.7	313	7.87	5.88	82.3
7/12/2008	1:30:00	23.6	314	7.86	5.70	79.6
7/12/2008	1:45:00	23.5	314	7.86	5.94	82.9
7/12/2008	2:00:00	23.4	313	7.87	5.82	81.1
7/12/2008	2:15:00	23.3	313	7.87	6.06	84.2
7/12/2008	2:30:00	23.2	314	7.87	6.09	84.4
7/12/2008	2:45:00	23.1	315	7.87	5.95	82.4
7/12/2008	3:00:00	23.0	314	7.87	6.15	84.9
7/12/2008	3:15:00	22.9	314	7.87	6.11	84.3
7/12/2008	3:30:00	22.8	314	7.87	5.95	81.9
7/12/2008	3:45:00	22.8	314	7.87	5.93	81.6
7/12/2008	4:00:00	22.7	313	7.88	5.95	81.7
7/12/2008	4:15:00	22.6	313	7.88	6.10	83.8
7/12/2008	4:30:00	22.6	314	7.88	6.04	82.9
7/12/2008	4:45:00	22.5	314	7.88	6.12	83.7
7/12/2008	5:00:00	22.4	313	7.88	6.20	84.7
7/12/2008	5:15:00	22.3	313	7.89	6.06	82.6
7/12/2008	5:30:00	22.2	312	7.89	6.13	83.4
7/12/2008	5:45:00	22.1	312	7.89	5.82	79.0
7/12/2008	6:00:00	22.0	311	7.90	6.33	85.7
7/12/2008	6:15:00	21.9	312	7.90	6.05	81.9
7/12/2008	6:30:00	21.8	311	7.90	6.25	84.3
7/12/2008	6:45:00	21.7	311	7.91	6.24	84.0
7/12/2008	7:00:00	21.6	310	7.91	6.35	85.4
7/12/2008	7:15:00	21.6	310	7.92	6.22	83.6
7/12/2008	7:30:00	21.5	309	7.93	6.19	83.1
7/12/2008	7:45:00	21.5	309	7.94	6.30	84.5
7/12/2008	8:00:00	21.5	309	7.94	6.36	85.3
7/12/2008	8:15:00	21.5	308	7.96	6.37	85.5

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/12/2008	8:30:00	21.6	308	7.96	6.35	85.4
7/12/2008	8:45:00	21.6	308	7.96	6.46	86.9
7/12/2008	9:00:00	21.8	308	7.96	6.49	87.5
7/12/2008	9:15:00	21.8	308	7.98	6.46	87.3
7/12/2008	9:30:00	21.9	307	7.98	6.32	85.5
7/12/2008	9:45:00	22.0	308	7.99	6.64	90.0
7/12/2008	10:00:00	22.2	308	7.99	6.62	90.1
7/12/2008	10:15:00	22.3	286	7.99	4.25	57.9
7/12/2008	10:30:00	22.6	306	8.00	6.48	88.8
7/12/2008	10:45:00	22.7	298	8.00	6.66	91.5
7/12/2008	11:00:00	22.9	308	8.01	6.63	91.5
7/12/2008	11:15:00	23.2	308	8.00	6.73	93.4
7/12/2008	11:30:00	23.5	308	8.01	6.45	89.8
7/12/2008	11:45:00	23.6	308	8.01	6.56	91.7
7/12/2008	12:00:00	23.9	309	8.01	6.56	92.2
7/12/2008	12:15:00	24.1	309	8.01	6.44	90.9
7/12/2008	12:30:00	24.4	310	8.01	6.59	93.5
7/12/2008	12:45:00	24.7	312	8.01	6.37	90.9
7/12/2008	13:00:00	25.0	312	8.01	6.22	89.1
7/12/2008	13:15:00	25.3	314	8.00	6.55	94.5
7/12/2008	13:30:00	25.2	153	7.99	6.16	88.7
7/12/2008	13:45:00	25.4	316	7.99	6.42	92.7
7/12/2008	14:00:00	25.4	316	7.97	4.13*	59.7
7/12/2008	14:15:00	25.6	103	7.92	1.73	25.0
7/12/2008	14:30:00	25.6	101	7.88	1.85	26.8
7/12/2008	14:45:00	25.6	100	7.82	2.70	39.1
7/12/2008	15:00:00	25.8	101	7.81	3.39	49.2
7/12/2008	15:15:00	26.1	100	7.83	2.19	32.0
7/12/2008	15:30:00	26.2	100	7.81	2.07	30.3
7/12/2008	15:45:00	26.3	100	7.78	2.88	42.3
7/12/2008	16:00:00	26.4	100	7.79	3.14	46.2
7/12/2008	16:15:00	26.3	326	7.97	6.29	92.3
7/12/2008	16:30:00	26.2	325	7.96	6.35	93.2
7/12/2008	16:45:00	26.2	326	7.95	6.30	92.4
7/12/2008	17:00:00	26.2	327	7.94	6.08	89.3
7/12/2008	17:15:00	26.3	238	7.94	3.41	50.1
7/12/2008	17:30:00	26.4	96	7.88	2.99	44.0
7/12/2008	17:45:00	26.4	96	7.86	2.19	32.2
7/12/2008	18:00:00	26.3	96	7.85	2.53	37.1
7/12/2008	18:15:00	26.3	96	7.81	2.11	31.0
7/12/2008	18:30:00	26.2	96	7.81	1.61	23.6
7/12/2008	18:45:00	26.1	97	7.78	2.43	35.6
7/12/2008	19:00:00	26.0	96	7.77	3.23	47.1
7/12/2008	19:15:00	25.8	96	7.78	2.69	39.0
7/12/2008	19:30:00	25.7	96	7.77	2.08	30.2
7/12/2008	19:45:00	25.7	96	7.75	2.08	30.2

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/12/2008	20:00:00	25.6	96	7.79	1.80	26.0
7/12/2008	20:15:00	25.6	96	7.76	1.50	21.8
7/12/2008	20:30:00	25.5	96	7.72	1.75	25.3
7/12/2008	20:45:00	25.5	96	7.74	1.55	22.4
7/12/2008	21:00:00	25.5	96	7.73	1.34	19.3
7/12/2008	21:15:00	25.4	95	7.73	1.27	18.3
7/12/2008	21:30:00	25.3	95	7.70	1.57	22.6
7/12/2008	21:45:00	25.2	96	7.69	1.41	20.3
7/12/2008	22:00:00	25.1	96	7.69	1.18	17.0
7/12/2008	22:15:00	25.1	96	7.69	1.43	20.5
7/12/2008	22:30:00	25.0	95	7.70	1.29	18.5
7/12/2008	22:45:00	25.0	95	7.70	1.20	17.3
7/12/2008	23:00:00	24.9	94	7.70	1.06	15.2
7/12/2008	23:15:00	24.9	94	7.67	1.46	20.9
7/12/2008	23:30:00	24.9	95	7.65	1.57	22.5
7/12/2008	23:45:00	24.8	95	7.66	1.57	22.5
7/13/2008	0:00:00	24.7	95	7.65	1.35	19.2
7/13/2008	0:15:00	24.6	94	7.67	1.03	14.6
7/13/2008	0:30:00	24.6	95	7.66	0.94	13.4
7/13/2008	0:45:00	24.5	94	7.64	1.21	17.2
7/13/2008	1:00:00	24.5	95	7.64	0.95	13.4
7/13/2008	1:15:00	24.4	94	7.64	1.28	18.2
7/13/2008	1:30:00	24.3	94	7.63	1.27	18.0
7/13/2008	1:45:00	24.3	94	7.66	1.00	14.1
7/13/2008	2:00:00	24.2	94	7.63	0.87	12.3
7/13/2008	2:15:00	24.1	94	7.64	0.71	10.1
7/13/2008	2:30:00	24.1	96	7.64	0.73	10.3
7/13/2008	2:45:00	24.1	95	7.66	0.68	9.5
7/13/2008	3:00:00	23.9	94	7.61	0.65	9.2
7/13/2008	3:15:00	23.8	94	7.62	0.70	9.8
7/13/2008	3:30:00	23.9	95	7.62	0.69	9.6
7/13/2008	3:45:00	23.9	95	7.63	0.89	12.6
7/13/2008	4:00:00	23.7	94	7.62	1.06	14.8
7/13/2008	4:15:00	23.7	92	7.63	1.21	16.9
7/13/2008	4:30:00	23.6	91	7.62	1.15	16.1
7/13/2008	4:45:00	23.6	94	7.58	1.21	16.9
7/13/2008	5:00:00	23.4	96	7.60	1.12	15.5
7/13/2008	5:15:00	23.4	95	7.62	0.91	12.7
7/13/2008	5:30:00	23.5	94	7.60	0.88	12.3
7/13/2008	5:45:00	23.5	94	7.59	0.87	12.1
7/13/2008	6:00:00	23.5	94	7.58	0.80	11.1
7/13/2008	6:15:00	23.5	94	7.60	0.78	10.9
7/13/2008	6:30:00	23.5	94	7.59	0.80	11.1
7/13/2008	6:45:00	23.5	94	7.57	0.89	12.4
7/13/2008	7:00:00	23.5	93	7.59	0.76	10.6
7/13/2008	7:15:00	23.5	94	7.56	1.02	14.1

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/13/2008	7:30:00	23.4	94	7.56	0.68	9.5
7/13/2008	7:45:00	23.3	94	7.57	0.93	13.0
7/13/2008	8:00:00	23.3	94	7.57	0.95	13.1
7/13/2008	8:15:00	23.0	94	7.56	0.89	12.2
7/13/2008	8:30:00	22.7	94	7.57	0.75	10.2
7/13/2008	8:45:00	22.5	95	7.57	0.70	9.6
7/13/2008	9:00:00	22.5	95	7.57	0.63	8.6
7/13/2008	9:15:00	22.6	96	7.54	0.86	11.8
7/13/2008	9:30:00	22.6	94	7.56	0.77	10.6
7/13/2008	9:45:00	22.4	93	7.57	0.61	8.3
7/13/2008	10:00:00	22.3	93	7.56	0.62	8.4
7/13/2008	10:15:00	22.2	94	7.56	0.67	9.2
7/13/2008	10:30:00	22.2	94	7.59	0.52	7.1
7/13/2008	10:45:00	22.1	94	7.60	0.48	6.5
7/13/2008	11:00:00	22.1	93	7.53	0.57	7.7
7/13/2008	11:15:00	22.2	95	7.55	0.52	7.1
7/13/2008	11:30:00	22.3	93	7.55	0.69	9.3
7/13/2008	11:45:00	22.2	93	7.55	0.83	11.3
7/13/2008	12:00:00	22.3	91	7.55	1.26	17.2
7/13/2008	12:15:00	22.3	89	7.55	1.49	20.2
7/13/2008	12:30:00	22.2	89	7.55	1.53	20.8
7/13/2008	12:45:00	22.2	91	7.56	0.76	10.4
7/13/2008	13:00:00	22.2	90	7.55	0.83	11.3
7/13/2008	13:15:00	22.2	89	7.56	0.71	9.7
7/13/2008	13:30:00	22.3	88	7.58	0.72	9.8
7/13/2008	13:45:00	22.3	87	7.56	1.04	14.1
7/13/2008	14:00:00	22.4	87	7.58	1.08	14.7
7/13/2008	14:15:00	22.5	87	7.57	1.08	14.8
7/13/2008	14:30:00	22.9	89	7.53	1.81	24.9
7/13/2008	14:45:00	23.0	90	7.59	1.39	19.2
7/13/2008	15:00:00	23.1	89	7.60	1.47	20.3
7/13/2008	15:15:00	23.1	89	7.58	1.21	16.8
7/13/2008	15:30:00	23.4	89	7.57	1.10	15.3
7/13/2008	15:45:00	23.7	90	7.60	1.41	19.7
7/13/2008	16:00:00	23.7	89	7.58	1.80	25.2
7/13/2008	16:15:00	23.7	90	7.55	1.60	22.4
7/13/2008	16:30:00	23.6	92	7.55	1.57	21.9
7/13/2008	16:45:00	23.6	90	7.53	1.29	18.0
7/13/2008	17:00:00	23.6	89	7.55	0.97	13.5
7/13/2008	17:15:00	23.6	90	7.51	1.11	15.4
7/13/2008	17:30:00	23.7	89	7.54	1.02	14.3
7/13/2008	17:45:00	24.2	89	7.54	0.86	12.2
7/13/2008	18:00:00	24.6	89	7.57	2.05	29.2
7/13/2008	18:15:00	24.7	89	7.60	1.77	25.2
7/13/2008	18:30:00	24.6	91	7.57	1.80	25.6
7/13/2008	18:45:00	24.5	89	7.54	1.45	20.6

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/13/2008	19:00:00	24.5	89	7.56	1.24	17.7
7/13/2008	19:15:00	24.7	90	7.53	1.57	22.4
7/13/2008	19:30:00	25.1	267	7.90	6.09	87.4
7/13/2008	19:45:00	25.1	100	7.85	3.09	44.3
7/13/2008	20:00:00	25.0	99	7.82	2.37	34.0
7/13/2008	20:15:00	24.9	100	7.76	2.70	38.6
7/13/2008	20:30:00	24.9	100	7.73	2.81	40.2
7/13/2008	20:45:00	24.8	99	7.72	2.48	35.4
7/13/2008	21:00:00	24.7	100	7.74	2.28	32.4
7/13/2008	21:15:00	24.6	101	7.71	2.06	29.3
7/13/2008	21:30:00	24.6	100	7.70	2.09	29.7
7/13/2008	21:45:00	24.5	99	7.69	2.00	28.4
7/13/2008	22:00:00	24.5	98	7.69	3.74	53.0
7/13/2008	22:15:00	24.4	98	7.69	3.57	50.7
7/13/2008	22:30:00	24.4	99	7.67	2.70	38.3
7/13/2008	22:45:00	24.4	99	7.68	2.18	30.9
7/13/2008	23:00:00	24.4	99	7.69	1.70	24.2
7/13/2008	23:15:00	24.4	99	7.69	1.84	26.0
7/13/2008	23:30:00	24.3	99	7.65	1.94	27.5
7/13/2008	23:45:00	24.3	100	7.65	2.52	35.7
7/14/2008	0:00:00	24.2	99	7.66	2.48	35.0
7/14/2008	0:15:00	24.2	99	7.68	1.88	26.6
7/14/2008	0:30:00	24.1	100	7.67	1.60	22.5
7/14/2008	0:45:00	24.1	99	7.66	1.84	25.9
7/14/2008	1:00:00	24.1	100	7.66	1.49	21.0
7/14/2008	1:15:00	24.1	100	7.67	1.65	23.2
7/14/2008	1:30:00	24.1	100	7.58	1.96	27.6
7/14/2008	1:45:00	24.0	100	7.63	2.27	32.0
7/14/2008	2:00:00	24.0	100	7.60	2.54	35.7
7/14/2008	2:15:00	24.0	100	7.59	2.48	34.8
7/14/2008	2:30:00	23.9	100	7.65	1.79	25.1
7/14/2008	2:45:00	23.9	100	7.62	1.75	24.6
7/14/2008	3:00:00	23.8	101	7.64	1.50	21.1
7/14/2008	3:15:00	23.7	101	7.60	2.07	29.0
7/14/2008	3:30:00	23.7	101	7.58	3.72	52.0
7/14/2008	3:45:00	23.5	100	7.71	4.18	58.3
7/14/2008	4:00:00	23.3	101	7.74	3.02	42.0
7/14/2008	4:15:00	23.3	101	7.69	2.61	36.3
7/14/2008	4:30:00	23.2	101	7.67	2.90	40.2
7/14/2008	4:45:00	23.1	101	7.71	3.84	53.2
7/14/2008	5:00:00	23.1	101	7.70	3.02	41.8
7/14/2008	5:15:00	23.1	101	7.67	2.70	37.4
7/14/2008	5:30:00	23.2	100	7.67	2.56	35.5
7/14/2008	5:45:00	23.2	99	7.67	2.17	30.0
7/14/2008	6:00:00	23.0	99	7.66	2.34	32.2
7/14/2008	6:15:00	22.9	99	7.64	2.48	34.2

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/14/2008	6:30:00	22.9	100	7.64	2.41	33.3
7/14/2008	6:45:00	22.9	98	7.63	2.11	29.0
7/14/2008	7:00:00	23.0	99	7.65	2.17	29.9
7/14/2008	7:15:00	23.0	98	7.64	1.93	26.6
7/14/2008	7:30:00	23.0	98	7.64	1.89	26.1
7/14/2008	7:45:00	23.0	98	7.64	1.79	24.7
7/14/2008	8:00:00	23.0	98	7.65	1.73	23.8
7/14/2008	8:15:00	22.2	313	7.91	6.42	87.4
7/14/2008	8:30:00	22.2	314	7.91	6.38	86.9
7/14/2008	8:45:00	22.3	98	7.87	2.76	37.6
7/14/2008	9:00:00	22.3	94	7.81	2.80	38.2
7/14/2008	9:15:00	22.6	113	7.94	5.68	77.7
7/14/2008	9:30:00	22.7	314	7.95	6.49	89.1
7/14/2008	9:45:00	22.8	316	7.95	6.54	90.0
7/14/2008	10:00:00	22.9	316	7.96	6.57	90.6
7/14/2008	10:15:00	23.0	314	7.96	6.46	89.2
7/14/2008	10:30:00	23.1	96	7.91	3.60	49.8
7/14/2008	10:45:00	23.1	94	7.85	2.70	37.3
7/14/2008	11:00:00	23.1	92	7.83	2.78	38.5
7/14/2008	11:15:00	23.0	91	7.85	2.67	36.9
7/14/2008	11:30:00	23.0	90	7.80	2.97	41.1
7/14/2008	11:45:00	23.0	90	7.80	2.87	39.7
7/14/2008	12:00:00	24.4	317	7.98	6.54	92.8
7/14/2008	12:15:00	24.5	95	7.93	2.39	33.9
7/14/2008	12:30:00	24.4	92	7.89	2.45	34.8
7/14/2008	12:45:00	24.4	91	7.87	1.99	28.2
7/14/2008	13:00:00	24.4	91	7.83	2.54	36.0
7/14/2008	13:15:00	24.4	90	7.82	2.01	28.5
7/14/2008	13:30:00	24.4	90	7.79	2.19	31.0
7/14/2008	13:45:00	24.9	89	7.80	3.29	47.0
7/14/2008	14:00:00	25.3	90	7.81	2.10	30.3
7/14/2008	14:15:00	25.5	91	7.81	2.25	32.5
7/14/2008	14:30:00	25.5	91	7.79	2.30	33.3
7/14/2008	14:45:00	25.6	91	7.77	2.59	37.5
7/14/2008	15:00:00	25.5	91	7.74	1.98	28.7
7/14/2008	15:15:00	25.5	92	7.71	2.07	29.9
7/14/2008	15:30:00	25.7	92	7.76	3.74	54.3
7/14/2008	15:45:00	25.7	92	7.89	3.08	44.8
7/14/2008	16:00:00	25.7	92	7.86	2.21	32.1
7/14/2008	16:15:00	25.7	92	7.80	2.14	31.1
7/14/2008	16:30:00	25.5	91	7.77	2.15	31.1
7/14/2008	16:45:00	25.6	91	7.79	3.67	53.2
7/14/2008	17:00:00	25.5	91	7.77	2.44	35.3
7/14/2008	17:15:00	25.3	90	7.76	2.08	30.0
7/14/2008	17:30:00	25.2	90	7.75	2.04	29.3
7/14/2008	17:45:00	24.7	332	7.89	6.14	87.6

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/14/2008	18:00:00	24.5	103	7.87	3.85	54.7
7/14/2008	18:15:00	24.6	102	7.85	2.60	37.0
7/14/2008	18:30:00	24.6	102	7.82	2.83	40.2
7/14/2008	18:45:00	24.6	101	7.79	2.80	39.8
7/14/2008	19:00:00	24.3	100	7.81	3.60	50.9
7/14/2008	19:15:00	24.2	100	7.80	4.00	56.5
7/14/2008	19:30:00	24.1	101	7.83	2.86	40.3
7/14/2008	19:45:00	24.2	100	7.78	2.97	41.9
7/14/2008	20:00:00	24.2	101	7.73	3.46	48.9
7/14/2008	20:15:00	23.6	329	7.88	6.16	86.0
7/14/2008	20:30:00	23.6	103	7.85	2.89	40.3
7/14/2008	20:45:00	23.6	101	7.83	2.70	37.7
7/14/2008	21:00:00	23.7	100	7.78	3.34	46.7
7/14/2008	21:15:00	23.7	99	7.77	3.29	46.1
7/14/2008	21:30:00	23.6	338	7.88	6.12	85.4
7/14/2008	21:45:00	23.5	107	7.86	2.55	35.5
7/14/2008	22:00:00	23.6	106	7.81	2.88	40.1
7/14/2008	22:15:00	23.6	105	7.78	2.49	34.7
7/14/2008	22:30:00	23.6	104	7.82	1.89	26.4
7/14/2008	22:45:00	23.5	104	7.83	1.95	27.2
7/14/2008	23:00:00	23.5	103	7.77	2.74	38.2
7/14/2008	23:15:00	23.4	111	7.80	2.37	32.9
7/14/2008	23:30:00	23.4	109	7.83	2.43	33.8
7/14/2008	23:45:00	23.4	109	7.81	2.81	39.1
7/15/2008	0:00:00	23.4	109	7.75	2.21	30.7
7/15/2008	0:15:00	23.4	106	7.78	1.88	26.2
7/15/2008	0:30:00	23.4	106	7.78	1.95	27.1
7/15/2008	0:45:00	23.4	106	7.79	1.98	27.6
7/15/2008	1:00:00	23.4	106	7.79	1.61	22.3
7/15/2008	1:15:00	23.3	105	7.75	1.57	21.8
7/15/2008	1:30:00	23.3	105	7.75	1.60	22.2
7/15/2008	1:45:00	23.2	108	7.71	2.23	30.9
7/15/2008	2:00:00	23.2	115	7.71	2.75	38.1
7/15/2008	2:15:00	22.6	112	7.77	2.15	29.4
7/15/2008	2:30:00	22.6	108	7.79	1.58	21.7
7/15/2008	2:45:00	22.6	107	7.77	2.05	28.1
7/15/2008	3:00:00	22.5	107	7.79	2.89	39.5
7/15/2008	3:15:00	22.5	106	7.79	1.86	25.5
7/15/2008	3:30:00	22.5	105	7.80	1.80	24.6
7/15/2008	3:45:00	22.3	116	7.73	3.72	50.7
7/15/2008	4:00:00	21.9	393	7.88	6.24	84.4
7/15/2008	4:15:00	21.9	117	7.80	3.86	52.2
7/15/2008	4:30:00	21.9	114	7.79	2.79	37.8
7/15/2008	4:45:00	21.9	112	7.78	3.18	43.0
7/15/2008	5:00:00	21.9	111	7.82	2.34	31.6
7/15/2008	5:15:00	21.9	110	7.78	3.01	40.6

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/15/2008	5:30:00	21.9	109	7.77	2.07	28.0
7/15/2008	5:45:00	21.9	109	7.75	2.01	27.1
7/15/2008	6:00:00	22.0	108	7.78	1.97	26.7
7/15/2008	6:15:00	22.0	108	7.75	2.19	29.7
7/15/2008	6:30:00	22.0	108	7.72	3.19	43.2
7/15/2008	6:45:00	21.9	107	7.75	2.24	30.3
7/15/2008	7:00:00	21.8	107	7.73	1.94	26.2
7/15/2008	7:15:00	21.8	107	7.73	1.81	24.5
7/15/2008	7:30:00	21.8	107	7.75	2.11	28.4
7/15/2008	7:45:00	21.8	106	7.73	2.02	27.2
7/15/2008	8:00:00	21.8	107	7.72	2.30	31.1
7/15/2008	8:15:00	21.9	103	7.76	3.20	43.2
7/15/2008	8:30:00	21.3	112	7.95	6.11	81.6
7/15/2008	8:45:00	21.3	354	7.96	6.60	88.2
7/15/2008	9:00:00	21.4	107	7.94	4.05	54.2
7/15/2008	9:15:00	21.4	105	7.94	3.28	43.9
7/15/2008	9:30:00	21.5	105	7.91	3.13	42.0
7/15/2008	9:45:00	21.5	104	7.87	3.47	46.5
7/15/2008	10:00:00	21.6	103	7.86	3.03	40.7
7/15/2008	10:15:00	21.7	103	7.81	3.56	47.9
7/15/2008	10:30:00	21.8	102	7.80	3.30	44.5
7/15/2008	10:45:00	21.8	102	7.80	3.14	42.4
7/15/2008	11:00:00	21.9	102	7.79	3.00	40.5
7/15/2008	11:15:00	21.9	102	7.77	2.95	39.9
7/15/2008	11:30:00	22.1	102	7.77	3.21	43.6
7/15/2008	11:45:00	22.4	99	7.77	2.88	39.3
7/15/2008	12:00:00	23.0	98	7.78	2.93	40.4
7/15/2008	12:15:00	23.1	98	7.78	2.99	41.3
7/15/2008	12:30:00	23.3	98	7.75	3.24	45.0
7/15/2008	12:45:00	23.5	98	7.77	2.83	39.4
7/15/2008	13:00:00	23.6	98	7.74	3.15	44.1
7/15/2008	13:15:00	23.8	98	7.79	2.48	34.7
7/15/2008	13:30:00	23.8	97	7.74	3.01	42.2
7/15/2008	13:45:00	23.9	97	7.73	3.39	47.6
7/15/2008	14:00:00	24.0	97	7.73	3.63	51.0
7/15/2008	14:15:00	24.9	96	7.73	3.52	50.3
7/15/2008	14:30:00	25.1	98	7.88	4.76	68.4
7/15/2008	14:45:00	26.3	98	7.91	2.65	38.9
7/15/2008	15:00:00	26.4	97	7.86	2.34	34.4
7/15/2008	15:15:00	26.6	96	7.83	2.58	38.1
7/15/2008	15:30:00	26.7	96	7.84	2.62	38.8
7/15/2008	15:45:00	26.7	96	7.81	2.10	31.0
7/15/2008	16:00:00	26.6	96	7.81	2.21	32.6
7/15/2008	16:15:00	26.7	96	7.77	2.25	33.3
7/15/2008	16:30:00	26.6	97	7.73	2.18	32.2
7/15/2008	16:45:00	26.8	97	7.75	2.31	34.1

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/15/2008	17:00:00	26.8	97	7.75	1.97	29.2
7/15/2008	17:15:00	27.0	97	7.76	3.44	51.2
7/15/2008	17:30:00	27.8	106	7.88	2.84	42.7
7/15/2008	17:45:00	27.5	106	7.81	3.18	47.7
7/15/2008	18:00:00	27.6	107	7.80	2.52	37.8
7/15/2008	18:15:00	27.5	107	7.82	2.19	32.9
7/15/2008	18:30:00	27.4	106	7.78	2.39	35.8
7/15/2008	18:45:00	27.3	106	7.75	2.37	35.3
7/15/2008	19:00:00	27.2	106	7.71	2.70	40.3
7/15/2008	19:15:00	27.3	106	7.74	1.93	28.8
7/15/2008	19:30:00	27.3	107	7.72	2.33	34.8
7/15/2008	19:45:00	27.3	105	7.77	2.47	36.9
7/15/2008	20:00:00	27.3	105	7.81	2.60	38.8
7/15/2008	20:15:00	27.3	105	7.82	2.23	33.4
7/15/2008	20:30:00	27.2	106	7.77	2.27	33.9
7/15/2008	20:45:00	27.1	105	7.73	2.42	36.1
7/15/2008	21:00:00	27.0	106	7.76	1.99	29.7
7/15/2008	21:15:00	26.9	106	7.71	1.88	27.9
7/15/2008	21:30:00	26.9	106	7.74	1.71	25.4
7/15/2008	21:45:00	26.8	106	7.75	2.47	36.6
7/15/2008	22:00:00	26.7	106	7.77	1.85	27.4
7/15/2008	22:15:00	26.6	107	7.69	2.15	31.8
7/15/2008	22:30:00	26.6	106	7.69	2.18	32.1
7/15/2008	22:45:00	26.5	108	7.66	2.37	34.9
7/15/2008	23:00:00	26.1	98	7.80	4.13	60.4
7/15/2008	23:15:00	25.7	98	7.86	4.29	62.3
7/15/2008	23:30:00	25.7	97	7.82	2.50	36.3
7/15/2008	23:45:00	25.7	96	7.82	1.90	27.6
7/15/2008	0:00:00	25.7	96	7.82	1.71	24.9
7/15/2008	0:15:00	25.7	95	7.81	1.52	22.1
7/16/2008	0:30:00	25.7	95	7.78	1.46	21.2
7/16/2008	0:45:00	25.8	96	7.73	1.67	24.2
7/16/2008	1:00:00	25.6	95	7.71	1.58	23.0
7/16/2008	1:15:00	25.6	94	7.72	1.33	19.3
7/16/2008	1:30:00	25.5	94	7.70	1.86	27.0
7/16/2008	1:45:00	25.2	94	7.72	1.67	24.0
7/16/2008	2:00:00	25.1	94	7.72	1.73	24.9
7/16/2008	2:15:00	25.1	94	7.70	1.73	24.9
7/16/2008	2:30:00	25.1	94	7.67	1.95	27.9
7/16/2008	2:45:00	24.9	95	7.71	2.09	29.9
7/16/2008	3:00:00	24.9	94	7.71	1.52	21.7
7/16/2008	3:15:00	24.9	94	7.70	1.51	21.6
7/16/2008	3:30:00	25.0	95	7.71	1.42	20.4
7/16/2008	3:45:00	25.0	94	7.67	1.38	19.7
7/16/2008	4:00:00	25.0	94	7.67	1.86	26.7
7/16/2008	4:15:00	24.5	96	7.69	2.09	29.7

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/16/2008	4:30:00	24.6	95	7.71	1.25	17.7
7/16/2008	4:45:00	24.6	96	7.70	1.11	15.7
7/16/2008	5:00:00	24.6	95	7.66	1.20	17.1
7/16/2008	5:15:00	24.5	95	7.66	1.35	19.1
7/16/2008	5:30:00	24.3	95	7.68	1.83	25.8
7/16/2008	5:45:00	24.2	95	7.66	1.43	20.1
7/16/2008	6:00:00	24.2	95	7.66	1.25	17.7
7/16/2008	6:15:00	24.2	95	7.68	0.97	13.6
7/16/2008	6:30:00	24.3	96	7.66	0.72	10.2
7/16/2008	6:45:00	24.4	95	7.64	0.69	9.8
7/16/2008	7:00:00	24.4	95	7.60	0.72	10.2
7/16/2008	7:15:00	23.9	96	7.63	0.91	12.7
7/16/2008	7:30:00	23.8	95	7.62	0.66	9.3
7/16/2008	7:45:00	22.9	102	7.90	3.66	50.4
7/16/2008	8:00:00	22.7	97	7.88	2.63	36.1
7/16/2008	8:15:00	22.7	96	7.88	2.51	34.4
7/16/2008	8:30:00	22.8	95	7.88	2.07	28.4
7/16/2008	8:45:00	22.8	97	7.88	2.29	31.5
7/16/2008	9:00:00	23.0	96	7.82	2.18	30.1
7/16/2008	9:15:00	22.9	95	7.81	3.44	47.4
7/16/2008	9:30:00	23.0	93	7.95	2.66	36.6
7/16/2008	9:45:00	23.1	93	7.88	2.87	39.7
7/16/2008	10:00:00	23.1	92	7.86	2.27	31.4
7/16/2008	10:15:00	23.2	94	7.82	2.44	33.9
7/16/2008	10:30:00	23.4	97	7.91	5.63	78.3
7/16/2008	10:45:00	23.8	96	7.94	3.54	49.6
7/16/2008	11:00:00	23.8	97	7.94	2.09	29.4
7/16/2008	11:15:00	23.8	96	7.91	2.00	28.0
7/16/2008	11:30:00	23.8	96	7.87	2.11	29.6
7/16/2008	11:45:00	23.9	95	7.87	1.70	23.8
7/16/2008	12:00:00	23.9	94	7.89	1.58	22.2
7/16/2008	12:15:00	23.9	94	7.88	1.64	23.0
7/16/2008	12:30:00	23.9	95	7.82	1.84	25.9
7/16/2008	12:45:00	24.0	94	7.81	3.16	44.4
7/16/2008	13:00:00	26.0	97	7.95	3.31	48.2
7/16/2008	13:15:00	25.9	96	7.90	2.04	29.7
7/16/2008	13:30:00	26.0	96	7.89	1.82	26.6
7/16/2008	13:45:00	26.1	96	7.87	1.98	29.0
7/16/2008	14:00:00	26.5	95	7.83	1.69	24.9
7/16/2008	14:15:00	26.5	95	7.81	1.45	21.3
7/16/2008	14:30:00	26.5	94	7.83	1.26	18.6
7/16/2008	14:45:00	26.5	95	7.83	1.22	18.0
7/16/2008	15:00:00	26.5	95	7.82	1.14	16.8
7/16/2008	15:15:00	26.5	96	7.81	1.25	18.4
7/16/2008	15:30:00	26.5	95	7.82	0.90	13.3
7/16/2008	15:45:00	26.4	95	7.78	0.88	13.0

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/16/2008	16:00:00	26.4	95	7.75	0.86	12.6
7/16/2008	16:15:00	26.5	94	7.73	1.69	25.0
7/16/2008	16:30:00	27.6	94	7.73	1.39	20.9
7/16/2008	16:45:00	27.5	94	7.72	1.21	18.2
7/16/2008	17:00:00	27.4	95	7.72	1.02	15.2
7/16/2008	17:15:00	27.3	95	7.73	0.81	12.1
7/16/2008	17:30:00	27.4	95	7.70	0.82	12.3
7/16/2008	17:45:00	27.4	95	7.70	0.85	12.8
7/16/2008	18:00:00	27.4	94	7.69	0.85	12.7
7/16/2008	18:15:00	27.4	95	7.72	0.68	10.2
7/16/2008	18:30:00	27.4	95	7.73	0.65	9.7
7/16/2008	18:45:00	27.4	95	7.68	0.70	10.4
7/16/2008	19:00:00	27.5	95	7.68	0.65	9.7
7/16/2008	19:15:00	27.5	95	7.67	0.82	12.2
7/16/2008	19:30:00	27.6	96	7.68	0.70	10.5
7/16/2008	19:45:00	27.6	96	7.69	0.62	9.2
7/16/2008	20:00:00	27.6	96	7.67	0.54	8.1
7/16/2008	20:15:00	27.5	96	7.68	0.40	6.0
7/16/2008	20:30:00	27.6	96	7.67	0.46	7.0
7/16/2008	20:45:00	27.6	96	7.64	0.52	7.9
7/16/2008	21:00:00	27.5	97	7.63	0.48	7.2
7/16/2008	21:15:00	27.4	96	7.65	0.45	6.8
7/16/2008	21:30:00	27.4	96	7.64	0.39	5.8
7/16/2008	21:45:00	27.3	97	7.62	0.32	4.7
7/16/2008	22:00:00	27.3	96	7.62	0.33	4.9
7/16/2008	22:15:00	27.2	96	7.60	0.55	8.3
7/16/2008	22:30:00	27.2	346	7.87	5.62	83.9
7/16/2008	22:45:00	27.0	107	7.83	3.43	51.1
7/16/2008	23:00:00	27.1	106	7.82	2.28	33.9
7/16/2008	23:15:00	27.0	106	7.76	3.00	44.6
7/16/2008	23:30:00	26.7	105	7.85	4.02	59.5
7/16/2008	23:45:00	26.7	101	7.81	2.76	40.8
7/17/2008	0:00:00	26.7	101	7.80	2.09	31.0
7/17/2008	0:15:00	26.7	100	7.79	1.88	27.9
7/17/2008	0:30:00	26.7	99	7.78	1.56	23.1
7/17/2008	0:45:00	26.7	99	7.76	1.40	20.7
7/17/2008	1:00:00	26.6	98	7.75	1.50	22.1
7/17/2008	1:15:00	26.6	98	7.78	1.10	16.2
7/17/2008	1:30:00	26.5	98	7.76	1.12	16.4
7/17/2008	1:45:00	26.5	98	7.74	1.02	15.1
7/17/2008	2:00:00	26.5	98	7.72	0.83	12.3
7/17/2008	2:15:00	26.4	98	7.70	0.83	12.2
7/17/2008	2:30:00	26.2	98	7.71	1.00	14.7
7/17/2008	2:45:00	26.1	97	7.69	1.90	27.8
7/17/2008	3:00:00	26.0	98	7.70	1.42	20.7
7/17/2008	3:15:00	26.0	98	7.68	1.14	16.6

Table 5.77. Water quality measurements at Site 3, Rio Grande at Los Padillas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/17/2008	3:30:00	25.9	98	7.67	1.22	17.7
7/17/2008	3:45:00	25.8	98	7.66	1.24	18.1
7/17/2008	4:00:00	25.8	98	7.67	0.81	11.8
7/17/2008	4:15:00	25.8	98	7.66	0.84	12.2
7/17/2008	4:30:00	25.5	98	7.67	1.00	14.4
7/17/2008	4:45:00	25.3	98	7.66	0.63	9.1
7/17/2008	5:00:00	25.0	97	7.70	3.63	52.0
7/17/2008	5:15:00	24.6	94	7.79	2.04	29.1
7/17/2008	5:30:00	24.6	94	7.80	1.75	24.9
7/17/2008	5:45:00	24.6	95	7.78	1.96	27.9
7/17/2008	6:00:00	24.6	95	7.78	1.90	27.1
7/17/2008	6:15:00	24.6	95	7.77	1.87	26.6
7/17/2008	6:30:00	24.6	96	7.74	1.65	23.5
7/17/2008	6:45:00	24.6	96	7.74	1.54	21.9
7/17/2008	7:00:00	24.7	96	7.72	1.64	23.3
7/17/2008	7:15:00	24.7	96	7.71	1.28	18.3
7/17/2008	7:30:00	24.8	96	7.71	1.15	16.4
7/17/2008	7:45:00	24.8	96	7.72	1.26	18.0
7/17/2008	8:00:00	24.7	96	7.74	1.57	22.4

Table 5.78. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**40183**	**Name**	**:**	**Marge**
Log	**File**	**Name**	**:**	**SITE4-7-7-08**
Setup	**Date**	**(MMDDYY)**	**:**	**7/6/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**213939**
Starting	**Date**	**(MMDDYY)**	**:**	**7/7/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**140000**
Stopping	**Date**	**(MMDDYY)**	**:**	**7/11/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**120000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (DDMMYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH	DO (mg/L)	DO Saturation (%)
7/7/2008	14:00:00	24.9	348	8.07	6.14	89.2
7/7/2008	14:15:00	24.9	348	8.08	6.15	89.5
7/7/2008	14:30:00	24.9	348	8.08	6.19	90.1
7/7/2008	14:45:00	25.0	347	8.09	6.19	90.1
7/7/2008	15:00:00	25.0	347	8.09	6.17	89.9
7/7/2008	15:15:00	25.1	347	8.10	6.21	90.6
7/7/2008	15:30:00	25.2	347	8.11	6.19	90.4
7/7/2008	15:45:00	25.1	346	8.10	6.22	90.9
7/7/2008	16:00:00	25.1	345	8.10	6.17	90.1
7/7/2008	16:15:00	25.1	345	8.11	6.19	90.4
7/7/2008	16:30:00	25.1	344	8.11	6.20	90.4
7/7/2008	16:45:00	25.1	342	8.11	6.08	88.7
7/7/2008	17:00:00	25.1	341	8.11	6.08	88.6
7/7/2008	17:15:00	25.0	340	8.11	5.95	86.7
7/7/2008	17:30:00	25.0	339	8.11	6.02	87.7
7/7/2008	17:45:00	25.0	337	8.12	6.00	87.5
7/7/2008	18:00:00	25.1	336	8.12	6.01	87.7
7/7/2008	18:15:00	25.1	336	8.12	6.06	88.4
7/7/2008	18:30:00	25.1	335	8.12	6.08	88.8
7/7/2008	18:45:00	25.1	334	8.11	6.03	87.9
7/7/2008	19:00:00	25.0	333	8.12	5.97	87.0
7/7/2008	19:15:00	24.9	333	8.12	6.04	87.8
7/7/2008	19:30:00	24.7	332	8.12	6.01	87.1
7/7/2008	19:45:00	24.6	331	8.12	5.93	85.8
7/7/2008	20:00:00	24.5	330	8.11	5.95	85.9
7/7/2008	20:15:00	24.3	329	8.11	5.90	84.8
7/7/2008	20:30:00	24.1	329	8.10	5.85	83.9
7/7/2008	20:45:00	24.0	329	8.10	5.80	82.9
7/7/2008	21:00:00	23.8	329	8.10	5.80	82.6
7/7/2008	21:15:00	23.6	328	8.09	5.84	82.9
7/7/2008	21:30:00	23.5	329	8.09	5.84	82.8

Table 5.78. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/7/2008	21:45:00	23.4	329	8.09	5.85	82.7
7/7/2008	22:00:00	23.3	330	8.09	5.80	81.9
7/7/2008	22:15:00	23.2	331	8.09	5.79	81.6
7/7/2008	22:30:00	23.2	332	8.09	5.72	80.5
7/7/2008	22:45:00	23.1	332	8.08	5.79	81.4
7/7/2008	23:00:00	23.0	333	8.08	5.78	81.1
7/7/2008	23:15:00	23.0	333	8.07	5.80	81.4
7/7/2008	23:30:00	22.9	334	8.08	5.76	80.8
7/7/2008	23:45:00	22.9	335	8.08	5.72	80.2
7/8/2008	0:00:00	22.9	335	8.07	5.67	79.5
7/8/2008	0:15:00	22.9	336	8.07	5.74	80.4
7/8/2008	0:30:00	22.8	337	8.07	5.77	80.8
7/8/2008	0:45:00	22.8	337	8.06	5.76	80.5
7/8/2008	1:00:00	22.8	338	8.06	5.77	80.7
7/8/2008	1:15:00	22.7	338	8.06	5.82	81.2
7/8/2008	1:30:00	22.7	338	8.05	5.85	81.7
7/8/2008	1:45:00	22.7	339	8.05	5.80	80.9
7/8/2008	2:00:00	22.6	339	8.05	5.88	81.9
7/8/2008	2:15:00	22.5	339	8.05	5.72	79.6
7/8/2008	2:30:00	22.5	340	8.04	5.70	79.3
7/8/2008	2:45:00	22.4	340	8.04	5.72	79.5
7/8/2008	3:00:00	22.4	340	8.04	5.76	79.9
7/8/2008	3:15:00	22.3	340	8.04	5.70	79.0
7/8/2008	3:30:00	22.3	340	8.04	5.74	79.4
7/8/2008	3:45:00	22.2	340	8.04	5.69	78.7
7/8/2008	4:00:00	22.2	340	8.03	5.75	79.5
7/8/2008	4:15:00	22.2	339	8.03	5.71	78.9
7/8/2008	4:30:00	22.1	339	8.03	5.64	77.9
7/8/2008	4:45:00	22.1	339	8.03	5.68	78.3
7/8/2008	5:00:00	22.0	338	8.03	5.62	77.4
7/8/2008	5:15:00	22.0	339	8.03	5.68	78.2
7/8/2008	5:30:00	22.0	338	8.02	5.67	78.0
7/8/2008	5:45:00	21.9	338	8.02	5.71	78.5
7/8/2008	6:00:00	21.9	338	8.02	5.73	78.8
7/8/2008	6:15:00	21.8	337	8.02	5.70	78.3
7/8/2008	6:30:00	21.8	337	8.02	5.76	79.0
7/8/2008	6:45:00	21.7	337	8.02	5.79	79.3
7/8/2008	7:00:00	21.7	337	8.02	5.82	79.7
7/8/2008	7:15:00	21.7	337	8.02	5.90	80.8
7/8/2008	7:30:00	21.7	337	8.02	5.94	81.3
7/8/2008	7:45:00	21.7	337	8.03	5.97	81.7
7/8/2008	8:00:00	21.7	336	8.03	5.95	81.5
7/8/2008	8:15:00	21.8	337	8.03	5.99	82.1
7/8/2008	8:30:00	21.9	336	8.04	5.96	81.9
7/8/2008	8:45:00	22.0	336	8.04	6.01	82.7

Table 5.78. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	9:00:00	22.1	336	8.05	6.01	83.0
7/8/2008	9:15:00	22.3	336	8.05	6.00	83.1
7/8/2008	9:30:00	22.4	336	8.05	6.10	84.7
7/8/2008	9:45:00	22.6	336	8.05	6.06	84.4
7/8/2008	10:00:00	22.8	336	8.05	5.99	83.9
7/8/2008	10:15:00	23.0	337	8.05	6.06	85.1
7/8/2008	10:30:00	23.3	337	8.06	6.01	84.8
7/8/2008	10:45:00	23.5	337	8.06	6.01	85.1
7/8/2008	11:00:00	23.8	338	8.06	5.96	84.9
7/8/2008	11:15:00	24.0	338	8.06	6.00	85.8
7/8/2008	11:30:00	24.2	339	8.06	5.92	84.9
7/8/2008	11:45:00	24.4	339	8.06	5.98	86.1
7/8/2008	12:00:00	24.5	340	8.06	5.95	85.9
7/8/2008	12:15:00	24.6	340	8.07	6.04	87.3
7/8/2008	12:30:00	24.7	341	8.07	6.04	87.6
7/8/2008	12:45:00	25.0	341	8.07	6.04	88.1
7/8/2008	13:00:00	25.1	341	8.07	5.98	87.3
7/8/2008	13:15:00	25.3	342	8.07	5.97	87.5
7/8/2008	13:30:00	25.4	341	8.08	5.87	86.1
7/8/2008	13:45:00	25.6	341	8.08	5.88	86.6
7/8/2008	14:00:00	25.8	342	8.08	5.90	87.3
7/8/2008	14:15:00	25.9	341	8.08	5.83	86.3
7/8/2008	14:30:00	26.2	341	8.09	5.76	85.8
7/8/2008	14:45:00	26.4	341	8.09	5.74	85.8
7/8/2008	15:00:00	26.7	340	8.09	5.72	85.9
7/8/2008	15:15:00	26.9	339	8.09	5.80	87.5
7/8/2008	15:30:00	27.1	339	8.09	5.65	85.5
7/8/2008	15:45:00	27.2	338	8.09	5.69	86.2
7/8/2008	16:00:00	27.3	338	8.09	5.57	84.6
7/8/2008	16:15:00	27.4	337	8.09	5.63	85.8
7/8/2008	16:30:00	27.3	337	8.09	5.60	85.0
7/8/2008	16:45:00	27.2	337	8.09	5.81	88.1
7/8/2008	17:00:00	27.1	336	8.10	5.77	87.3
7/8/2008	17:15:00	27.0	335	8.10	5.81	87.7
7/8/2008	17:30:00	26.8	335	8.09	5.82	87.6
7/8/2008	17:45:00	26.6	333	8.09	5.76	86.5
7/8/2008	18:00:00	26.4	333	8.09	5.78	86.3
7/8/2008	18:15:00	26.2	332	8.08	5.78	86.0
7/8/2008	18:30:00	26.0	332	8.08	5.81	86.2
7/8/2008	18:45:00	25.9	330	8.08	5.78	85.6
7/8/2008	19:00:00	25.7	329	8.08	5.86	86.5
7/8/2008	19:15:00	25.6	328	8.08	5.84	86.0
7/8/2008	19:30:00	25.5	328	8.08	5.81	85.4
7/8/2008	19:45:00	25.2	326	8.08	5.83	85.2
7/8/2008	20:00:00	25.0	325	8.07	5.87	85.5

Table 5.78. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	20:15:00	24.8	325	8.07	5.84	84.8
7/8/2008	20:30:00	24.6	324	8.07	5.91	85.4
7/8/2008	20:45:00	24.4	323	8.07	5.85	84.3
7/8/2008	21:00:00	24.2	322	8.06	5.87	84.3
7/8/2008	21:15:00	24.1	321	8.06	5.88	84.3
7/8/2008	21:30:00	24.0	322	8.06	5.89	84.2
7/8/2008	21:45:00	23.9	325	8.06	5.89	84.1
7/8/2008	22:00:00	23.8	326	8.06	5.84	83.3
7/8/2008	22:15:00	23.7	328	8.05	5.84	83.1
7/8/2008	22:30:00	23.6	329	8.05	5.84	82.9
7/8/2008	22:45:00	23.6	332	8.05	5.84	83.0
7/8/2008	23:00:00	23.6	334	8.05	5.87	83.2
7/8/2008	23:15:00	23.4	335	8.05	5.64	79.9
7/8/2008	23:30:00	23.4	336	8.05	5.73	81.0
7/8/2008	23:45:00	23.2	338	8.05	5.55	78.3
7/9/2008	0:00:00	23.1	338	8.05	5.92	83.2
7/9/2008	0:15:00	23.0	341	8.05	5.77	81.0
7/9/2008	0:30:00	22.9	341	8.04	5.87	82.1
7/9/2008	0:45:00	22.8	343	8.04	5.79	80.9
7/9/2008	1:00:00	22.7	343	8.04	5.78	80.6
7/9/2008	1:15:00	22.6	344	8.04	5.79	80.7
7/9/2008	1:30:00	22.5	344	8.04	5.67	78.8
7/9/2008	1:45:00	22.4	344	8.04	5.77	80.0
7/9/2008	2:00:00	22.3	345	8.04	5.69	78.9
7/9/2008	2:15:00	22.2	345	8.04	5.70	78.9
7/9/2008	2:30:00	22.2	345	8.04	5.74	79.3
7/9/2008	2:45:00	22.2	345	8.04	5.68	78.5
7/9/2008	3:00:00	22.1	346	8.04	5.65	78.0
7/9/2008	3:15:00	22.1	345	8.04	5.74	79.2
7/9/2008	3:30:00	22.1	345	8.04	5.73	79.0
7/9/2008	3:45:00	22.1	346	8.03	5.70	78.5
7/9/2008	4:00:00	22.0	346	8.04	5.61	77.4
7/9/2008	4:15:00	22.0	346	8.04	5.65	77.8
7/9/2008	4:30:00	21.9	346	8.04	5.64	77.6
7/9/2008	4:45:00	21.9	345	8.03	5.67	78.0
7/9/2008	5:00:00	21.9	345	8.03	5.68	78.0
7/9/2008	5:15:00	21.8	345	8.03	5.75	78.8
7/9/2008	5:30:00	21.8	344	8.03	5.83	79.9
7/9/2008	5:45:00	21.7	345	8.02	5.85	80.1
7/9/2008	6:00:00	21.7	345	8.02	5.87	80.3
7/9/2008	6:15:00	21.6	345	8.02	5.87	80.3
7/9/2008	6:30:00	21.6	346	8.01	5.98	81.7
7/9/2008	6:45:00	21.6	346	8.01	5.96	81.3
7/9/2008	7:00:00	21.5	346	8.00	5.97	81.5
7/9/2008	7:15:00	21.5	346	8.00	5.99	81.8

Table 5.78. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	7:30:00	21.6	347	8.00	5.99	81.8
7/9/2008	7:45:00	21.6	347	8.00	5.99	81.9
7/9/2008	8:00:00	21.7	349	8.00	6.01	82.3
7/9/2008	8:15:00	21.7	349	8.00	6.06	83.0
7/9/2008	8:30:00	21.8	349	8.01	6.03	82.6
7/9/2008	8:45:00	21.8	349	8.01	6.12	83.9
7/9/2008	9:00:00	21.9	350	8.01	6.12	84.1
7/9/2008	9:15:00	22.0	349	8.01	6.08	83.8
7/9/2008	9:30:00	22.1	350	8.01	6.08	83.9
7/9/2008	9:45:00	22.3	350	8.02	6.09	84.4
7/9/2008	10:00:00	22.4	350	8.02	6.07	84.2
7/9/2008	10:15:00	22.6	350	8.03	6.06	84.3
7/9/2008	10:30:00	22.6	350	8.02	6.14	85.6
7/9/2008	10:45:00	22.7	350	8.03	6.11	85.4
7/9/2008	11:00:00	22.8	351	8.03	6.15	86.0
7/9/2008	11:15:00	22.9	351	8.04	6.15	86.0
7/9/2008	11:30:00	22.9	351	8.03	6.20	86.9
7/9/2008	11:45:00	23.0	352	8.05	6.27	88.0
7/9/2008	12:00:00	23.1	352	8.04	6.30	88.6
7/9/2008	12:15:00	23.1	352	8.05	6.31	88.7
7/9/2008	12:30:00	23.1	352	8.05	6.31	88.7
7/9/2008	12:45:00	23.1	353	8.06	6.37	89.6
7/9/2008	13:00:00	23.3	353	8.06	6.29	88.7
7/9/2008	13:15:00	23.4	353	8.06	6.27	88.8
7/9/2008	13:30:00	23.6	353	8.07	6.27	89.0
7/9/2008	13:45:00	23.7	353	8.07	6.24	88.8
7/9/2008	14:00:00	23.8	352	8.07	6.28	89.5
7/9/2008	14:15:00	23.9	353	8.07	6.25	89.2
7/9/2008	14:30:00	23.9	352	8.07	6.19	88.3
7/9/2008	14:45:00	23.9	352	8.08	6.19	88.4
7/9/2008	15:00:00	23.9	352	8.08	6.16	88.0
7/9/2008	15:15:00	24.0	351	8.08	6.15	88.0
7/9/2008	15:30:00	24.0	350	8.08	6.18	88.4
7/9/2008	15:45:00	24.1	350	8.08	6.18	88.4
7/9/2008	16:00:00	24.2	350	8.09	6.18	88.6
7/9/2008	16:15:00	24.3	349	8.10	6.22	89.4
7/9/2008	16:30:00	24.3	348	8.10	6.21	89.3
7/9/2008	16:45:00	24.3	348	8.10	6.19	89.1
7/9/2008	17:00:00	24.4	346	8.10	6.18	89.1
7/9/2008	17:15:00	24.5	346	8.11	6.17	89.1
7/9/2008	17:30:00	24.6	346	8.11	6.16	89.1
7/9/2008	17:45:00	24.7	345	8.11	6.14	89.0
7/9/2008	18:00:00	24.7	344	8.11	6.14	89.1
7/9/2008	18:15:00	24.7	344	8.11	6.09	88.2
7/9/2008	18:30:00	24.7	342	8.11	6.09	88.1

Table 5.78. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	18:45:00	24.6	342	8.11	6.08	87.9
7/9/2008	19:00:00	24.6	342	8.12	6.06	87.6
7/9/2008	19:15:00	24.6	340	8.12	6.07	87.7
7/9/2008	19:30:00	24.6	335	8.12	6.07	87.7
7/9/2008	19:45:00	24.5	336	8.12	6.03	87.1
7/9/2008	20:00:00	24.4	337	8.12	5.98	86.2
7/9/2008	20:15:00	24.3	337	8.11	5.89	84.7
7/9/2008	20:30:00	24.1	337	8.10	5.95	85.2
7/9/2008	20:45:00	24.0	336	8.09	5.93	84.8
7/9/2008	21:00:00	23.8	335	8.09	5.93	84.5
7/9/2008	21:15:00	23.7	336	8.09	5.97	84.9
7/9/2008	21:30:00	23.5	336	8.10	6.00	85.1
7/9/2008	21:45:00	23.4	335	8.06	6.02	85.1
7/9/2008	22:00:00	23.2	335	8.05	5.98	84.3
7/9/2008	22:15:00	23.1	336	8.04	5.94	83.5
7/9/2008	22:30:00	23.0	338	8.03	5.89	82.5
7/9/2008	22:45:00	22.8	339	8.03	5.90	82.5
7/9/2008	23:00:00	22.7	340	8.03	5.84	81.5
7/9/2008	23:15:00	22.5	343	8.03	5.91	82.1
7/9/2008	23:30:00	22.3	344	8.02	5.83	80.8
7/9/2008	23:45:00	21.4	352	8.03	6.06	82.4
7/10/2008	0:00:00	21.2	354	8.03	6.14	83.2
7/10/2008	0:15:00	21.2	355	8.03	6.13	83.1
7/10/2008	0:30:00	20.5	360	8.03	6.27	83.9
7/10/2008	0:45:00	20.3	362	8.03	6.40	85.2
7/10/2008	1:00:00	20.1	364	8.02	6.33	84.1
7/10/2008	1:15:00	20.7	361	8.02	6.26	84.0
7/10/2008	1:30:00	20.1	367	8.03	6.36	84.5
7/10/2008	1:45:00	20.0	368	8.03	6.40	84.8
7/10/2008	2:00:00	19.8	370	8.01	6.45	85.1
7/10/2008	2:15:00	19.6	372	8.01	6.53	85.7
7/10/2008	2:30:00	19.6	375	8.00	6.52	85.6
7/10/2008	2:45:00	19.4	377	7.99	6.51	85.2
7/10/2008	3:00:00	19.6	377	7.99	6.39	83.9
7/10/2008	3:15:00	20.1	375	7.99	6.22	82.5
7/10/2008	3:30:00	19.8	377	8.03	6.41	84.7
7/10/2008	3:45:00	20.3	374	8.03	6.11	81.4
7/10/2008	4:00:00	20.3	374	8.07	6.19	82.5
7/10/2008	4:15:00	19.7	381	8.10	6.36	83.7
7/10/2008	4:30:00	19.5	380	8.10	6.39	83.7
7/10/2008	4:45:00	19.4	379	8.07	6.49	84.8
7/10/2008	5:00:00	19.4	379	8.12	6.50	85.1
7/10/2008	5:15:00	19.3	379	8.11	6.63	86.5
7/10/2008	5:30:00	19.7	376	8.18	6.46	85.0
7/10/2008	5:45:00	20.0	373	8.24	6.31	83.5

Table 5.78. Water quality measurements at Site 4, Rio Grande at Los Lunas, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/10/2008	6:00:00	20.0	373	8.25	6.38	84.4
7/10/2008	6:15:00	19.1	379	8.21	6.76	87.9
7/10/2008	6:30:00	19.4	375	8.27	6.61	86.5
7/10/2008	6:45:00	19.2	377	8.27	6.60	86.0
7/10/2008	7:00:00	19.6	375	8.28	6.49	85.2
7/10/2008	7:15:00	19.3	376	8.20	6.62	86.4
7/10/2008	7:30:00	19.9	372	8.24	6.42	84.8
7/10/2008	7:45:00	19.2	376	8.13	6.57	85.7
7/10/2008	8:00:00	19.1	377	8.09	6.69	87.0
7/10/2008	8:15:00	19.2	376	8.10	6.57	85.5
7/10/2008	8:30:00	19.2	377	8.10	6.61	86.0
7/10/2008	8:45:00	19.2	381	8.04	6.70	87.3
7/10/2008	9:00:00	21.3	373	8.09	6.68	90.7
7/10/2008	9:15:00	20.2	378	8.08	6.61	87.9

Table 5.79. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**45475**	**Name**	**:**	**Athena**
Log	**File**	**Name**	**:**	**Site5_7-7-08**
Setup	**Date**	**(MMDDYY)**	**:**	**7/7/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**10:43:33**
Starting	**Date**	**(MMDDYY)**	**:**	**7/7/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**12:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**7/11/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**110000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Tempature Celsius	DO mg/L	DO Saturation (%)
7/7/2008	12:00:00	24.7	6.48	92.4
7/7/2008	12:15:00	24.8	6.38	91.0
7/7/2008	12:30:00	24.8	6.42	91.7
7/7/2008	12:45:00	24.9	6.44	92.1
7/7/2008	13:00:00	24.9	6.37	91.3
7/7/2008	13:15:00	25.0	6.20	88.9
7/7/2008	13:30:00	25.0	5.99	85.9
7/7/2008	13:45:00	25.0	5.85	83.9
7/7/2008	14:00:00	25.2	5.78	83.1
7/7/2008	14:15:00	25.3	5.66	81.7
7/7/2008	14:30:00	25.4	5.57	80.3
7/7/2008	14:45:00	25.4	5.46	78.9
7/7/2008	15:00:00	25.6	5.38	78.0
7/7/2008	15:15:00	25.7	5.31	77.1
7/7/2008	15:30:00	25.9	5.23	76.3
7/7/2008	15:45:00	26.0	5.18	75.6
7/7/2008	16:00:00	26.1	5.06	74.0
7/7/2008	16:15:00	26.1	4.93	72.1
7/7/2008	16:30:00	26.2	4.88	71.6
7/7/2008	16:45:00	26.2	4.86	71.3
7/7/2008	17:00:00	26.2	4.83	70.8
7/7/2008	17:15:00	26.2	4.84	70.9
7/7/2008	17:30:00	26.3	4.87	71.4
7/7/2008	17:45:00	26.3	4.86	71.5
7/7/2008	18:00:00	26.4	4.84	71.2
7/7/2008	18:15:00	26.4	4.81	70.8
7/7/2008	18:30:00	26.3	4.78	70.2
7/7/2008	18:45:00	26.2	4.71	69.1
7/7/2008	19:00:00	26.2	4.62	67.8
7/7/2008	19:15:00	26.1	4.58	67.0
7/7/2008	19:30:00	26.1	4.56	66.6
7/7/2008	19:45:00	26.0	4.53	66.1
7/7/2008	20:00:00	26.0	4.52	66.0
7/7/2008	20:15:00	26.0	4.53	66.0

Table 5.79. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/7/2008	20:30:00	25.9	4.51	65.8
7/7/2008	20:45:00	25.8	4.48	65.3
7/7/2008	21:00:00	25.8	4.44	64.6
7/7/2008	21:15:00	25.7	4.38	63.7
7/7/2008	21:30:00	25.7	4.31	62.6
7/7/2008	21:45:00	25.6	4.22	61.2
7/7/2008	22:00:00	25.6	4.15	60.1
7/7/2008	22:15:00	25.5	4.09	59.2
7/7/2008	22:30:00	25.4	4.02	58.2
7/7/2008	22:45:00	25.4	3.96	57.2
7/7/2008	23:00:00	25.3	3.91	56.5
7/7/2008	23:15:00	25.3	3.89	56.1
7/7/2008	23:30:00	25.3	3.87	55.8
7/7/2008	23:45:00	25.2	3.86	55.6
7/8/2008	0:00:00	25.2	3.85	55.4
7/8/2008	0:15:00	25.1	3.85	55.3
7/8/2008	0:30:00	25.0	3.84	55.0
7/8/2008	0:45:00	24.9	3.81	54.6
7/8/2008	1:00:00	24.9	3.79	54.1
7/8/2008	1:15:00	24.8	3.76	53.7
7/8/2008	1:30:00	24.7	3.75	53.4
7/8/2008	1:45:00	24.6	3.81	54.1
7/8/2008	2:00:00	24.5	3.88	55.0
7/8/2008	2:15:00	24.4	3.91	55.4
7/8/2008	2:30:00	24.3	3.95	55.9
7/8/2008	2:45:00	24.2	3.98	56.1
7/8/2008	3:00:00	24.1	3.98	56.2
7/8/2008	3:15:00	24.0	3.99	56.1
7/8/2008	3:30:00	24.0	3.98	55.9
7/8/2008	3:45:00	23.9	3.97	55.6
7/8/2008	4:00:00	23.8	3.94	55.2
7/8/2008	4:15:00	23.7	3.91	54.7
7/8/2008	4:30:00	23.7	3.87	54.2
7/8/2008	4:45:00	23.6	3.87	54.0
7/8/2008	5:00:00	23.5	3.87	53.9
7/8/2008	5:15:00	23.4	3.86	53.7
7/8/2008	5:30:00	23.4	3.86	53.6
7/8/2008	5:45:00	23.3	3.86	53.5
7/8/2008	6:00:00	23.2	3.86	53.5
7/8/2008	6:15:00	23.2	3.86	53.4
7/8/2008	6:30:00	23.1	3.86	53.4
7/8/2008	6:45:00	23.1	3.85	53.3
7/8/2008	7:00:00	23.1	3.84	53.1
7/8/2008	7:15:00	23.1	3.82	52.8
7/8/2008	7:30:00	23.0	3.80	52.4
7/8/2008	7:45:00	23.0	3.78	52.1

Table 5.79. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	8:00:00	23.0	3.77	51.9
7/8/2008	8:15:00	22.9	3.76	51.8
7/8/2008	8:30:00	22.9	3.75	51.6
7/8/2008	8:45:00	22.9	3.75	51.6
7/8/2008	9:00:00	22.9	3.78	52.1
7/8/2008	9:15:00	23.0	3.83	52.8
7/8/2008	9:30:00	23.0	3.86	53.2
7/8/2008	9:45:00	23.1	3.87	53.5
7/8/2008	10:00:00	23.1	3.87	53.6
7/8/2008	10:15:00	23.3	3.86	53.5
7/8/2008	10:30:00	23.3	3.81	52.9
7/8/2008	10:45:00	23.4	3.74	52.0
7/8/2008	11:00:00	23.4	3.67	51.1
7/8/2008	11:15:00	23.5	3.61	50.3
7/8/2008	11:30:00	23.6	3.56	49.6*
7/8/2008	11:45:00	23.6	3.51	49.0
7/8/2008	12:00:00	23.6	3.47	48.5
7/8/2008	12:15:00	23.6	3.44	48.0
7/8/2008	12:30:00	23.6	3.41	47.7
7/8/2008	12:45:00	23.7	3.39	47.4
7/8/2008	13:00:00	23.8	3.35	46.9
7/8/2008	13:15:00	23.8	3.35	47.0
7/8/2008	13:30:00	23.9	3.35	47.0
7/8/2008	13:45:00	24.0	3.32	46.8
7/8/2008	14:00:00	24.2	3.36	47.5
7/8/2008	14:15:00	24.3	3.43	48.6
7/8/2008	14:30:00	24.6	3.50	49.7
7/8/2008	14:45:00	24.7	3.56	50.8
7/8/2008	15:00:00	24.9	3.64	52.1
7/8/2008	15:15:00	25.2	3.70	53.2
7/8/2008	15:30:00	25.3	3.73	53.8
7/8/2008	15:45:00	25.5	3.73	53.9
7/8/2008	16:00:00	25.6	3.67	53.3
7/8/2008	16:15:00	25.7	3.61	52.4
7/8/2008	16:30:00	25.7	3.54	51.4
7/8/2008	16:45:00	25.7	3.46	50.2
7/8/2008	17:00:00	25.7	3.36	48.7
7/8/2008	17:15:00	25.7	3.26	47.3
7/8/2008	17:30:00	25.8	3.17	46.1
7/8/2008	17:45:00	25.8	3.09	45.0
7/8/2008	18:00:00	25.8	3.02	44.0
7/8/2008	18:15:00	25.7	2.96	43.1
7/8/2008	18:30:00	25.7	2.91	42.3
7/8/2008	18:45:00	25.8	2.87	41.8
7/8/2008	19:00:00	25.8	2.84	41.3
7/8/2008	19:15:00	25.7	2.82	40.9

Table 5.79. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	19:30:00	25.7	2.79	40.6
7/8/2008	19:45:00	25.7	2.77	40.3
7/8/2008	20:00:00	25.8	2.75	40.0
7/8/2008	20:15:00	25.8	2.73	39.7
7/8/2008	20:30:00	25.7	2.71	39.4
7/8/2008	20:45:00	25.7	2.70	39.2
7/8/2008	21:00:00	25.6	2.70	39.1
7/8/2008	21:15:00	25.6	2.69	39.0
7/8/2008	21:30:00	25.6	2.68	38.9
7/8/2008	21:45:00	25.6	2.67	38.8
7/8/2008	22:00:00	25.6	2.66	38.6
7/8/2008	22:15:00	25.6	2.65	38.4
7/8/2008	22:30:00	25.5	2.65	38.4
7/8/2008	22:45:00	25.5	2.66	38.4
7/8/2008	23:00:00	25.4	2.62	37.9
7/8/2008	23:15:00	25.4	2.61	37.7
7/8/2008	23:30:00	25.3	2.61	37.7
7/8/2008	23:45:00	25.2	2.63	37.8
7/9/2008	0:00:00	25.2	2.64	37.9
7/9/2008	0:15:00	25.1	2.65	38.1
7/9/2008	0:30:00	25.1	2.66	38.2
7/9/2008	0:45:00	25.0	2.68	38.4
7/9/2008	1:00:00	24.9	2.70	38.7
7/9/2008	1:15:00	24.8	2.73	39.0
7/9/2008	1:30:00	24.7	2.74	39.0
7/9/2008	1:45:00	24.6	2.75	39.2
7/9/2008	2:00:00	24.5	2.77	39.3
7/9/2008	2:15:00	24.4	2.77	39.3
7/9/2008	2:30:00	24.3	2.78	39.4
7/9/2008	2:45:00	24.2	2.78	39.3
7/9/2008	3:00:00	24.2	2.82	39.8
7/9/2008	3:15:00	24.1	2.88	40.6
7/9/2008	3:30:00	24.0	2.96	41.6
7/9/2008	3:45:00	24.0	3.03	42.7
7/9/2008	4:00:00	23.9	3.11	43.7
7/9/2008	4:15:00	23.8	3.19	44.7
7/9/2008	4:30:00	23.7	3.26	45.6
7/9/2008	4:45:00	23.7	3.31	46.3
7/9/2008	5:00:00	23.6	3.36	46.9
7/9/2008	5:15:00	23.5	3.40	47.3
7/9/2008	5:30:00	23.4	3.43	47.8
7/9/2008	5:45:00	23.3	3.46	48.0
7/9/2008	6:00:00	23.3	3.46	48.0
7/9/2008	6:15:00	23.2	3.44	47.7
7/9/2008	6:30:00	23.1	3.42	47.3
7/9/2008	6:45:00	23.1	3.38	46.7

Table 5.79. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	7:00:00	23.0	3.33	46.0
7/9/2008	7:15:00	23.0	3.32	45.8
7/9/2008	7:30:00	22.9	3.35	46.2
7/9/2008	7:45:00	22.9	3.38	46.6
7/9/2008	8:00:00	22.9	3.42	47.0
7/9/2008	8:15:00	22.9	3.45	47.4
7/9/2008	8:30:00	22.8	3.47	47.7
7/9/2008	8:45:00	22.8	3.50	48.1
7/9/2008	9:00:00	22.8	3.54	48.6
7/9/2008	9:15:00	22.8	3.59	49.3
7/9/2008	9:30:00	22.8	3.65	50.2
7/9/2008	9:45:00	22.8	3.70	50.9
7/9/2008	10:00:00	22.8	3.74	51.4
7/9/2008	10:15:00	22.8	3.83	52.7
7/9/2008	10:30:00	22.8	3.98	54.7
7/9/2008	10:45:00	22.8	4.08	56.1
7/9/2008	11:00:00	22.8	4.15	57.0
7/9/2008	11:15:00	22.8	4.18	57.4
7/9/2008	11:30:00	22.9	4.18	57.5
7/9/2008	11:45:00	22.9	4.17	57.5
7/9/2008	12:00:00	23.0	4.16	57.4
7/9/2008	12:15:00	23.1	4.14	57.2
7/9/2008	12:30:00	23.2	4.12	57.0
7/9/2008	12:45:00	23.3	4.09	56.8
7/9/2008	13:00:00	23.4	4.07	56.6
7/9/2008	13:15:00	23.5	4.07	56.7
7/9/2008	13:30:00	23.5	4.07	56.7
7/9/2008	13:45:00	23.6	4.05	56.6
7/9/2008	14:00:00	23.6	4.04	56.4
7/9/2008	14:15:00	23.6	4.04	56.3
7/9/2008	14:30:00	23.6	4.02	56.2
7/9/2008	14:45:00	23.7	4.01	56.1
7/9/2008	15:00:00	23.8	3.99	55.9
7/9/2008	15:15:00	23.9	3.97	55.8
7/9/2008	15:30:00	24.1	3.93	55.4
7/9/2008	15:45:00	24.2	3.90	55.1
7/9/2008	16:00:00	24.4	3.86	54.7
7/9/2008	16:15:00	24.3	3.84	54.4
7/9/2008	16:30:00	24.3	3.82	54.1
7/9/2008	16:45:00	24.4	3.81	54.1
7/9/2008	17:00:00	24.5	3.81	54.0
7/9/2008	17:15:00	24.4	3.82	54.2
7/9/2008	17:30:00	24.4	3.85	54.5
7/9/2008	17:45:00	24.4	3.88	54.9
7/9/2008	18:00:00	24.3	3.90	55.3
7/9/2008	18:15:00	24.3	3.92	55.5

Table 5.79. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	18:30:00	24.2	3.94	55.7
7/9/2008	18:45:00	24.2	3.96	55.9
7/9/2008	19:00:00	24.1	3.98	56.1
7/9/2008	19:15:00	24.1	4.00	56.4
7/9/2008	19:30:00	24.1	4.01	56.5
7/9/2008	19:45:00	24.1	4.02	56.6
7/9/2008	20:00:00	24.0	4.02	56.5
7/9/2008	20:15:00	24.0	4.01	56.4
7/9/2008	20:30:00	24.0	3.99	56.1
7/9/2008	20:45:00	24.0	3.95	55.5
7/9/2008	21:00:00	23.9	3.93	55.2
7/9/2008	21:15:00	23.9	3.90	54.7
7/9/2008	21:30:00	23.8	3.86	54.1
7/9/2008	21:45:00	23.8	3.82	53.5
7/9/2008	22:00:00	23.7	3.79	53.1
7/9/2008	22:15:00	23.7	3.77	52.8
7/9/2008	22:30:00	23.6	3.76	52.5
7/9/2008	22:45:00	23.6	3.74	52.2
7/9/2008	23:00:00	23.6	3.72	51.9
7/9/2008	23:15:00	23.5	3.71	51.7
7/9/2008	23:30:00	23.5	3.67	51.1
7/9/2008	23:45:00	23.5	3.63	50.6
7/10/2008	0:00:00	23.4	3.61	50.3
7/10/2008	0:15:00	23.4	3.59	50.0
7/10/2008	0:30:00	23.4	3.58	49.8
7/10/2008	0:45:00	23.4	3.57	49.6
7/10/2008	1:00:00	23.3	3.57	49.5
7/10/2008	1:15:00	23.3	3.56	49.4
7/10/2008	1:30:00	23.2	3.56	49.3
7/10/2008	1:45:00	23.2	3.55	49.1
7/10/2008	2:00:00	23.1	3.54	49.0
7/10/2008	2:15:00	23.1	3.53	48.8
7/10/2008	2:30:00	23.0	3.52	48.6
7/10/2008	2:45:00	23.0	3.52	48.6
7/10/2008	3:00:00	22.9	3.53	48.6
7/10/2008	3:15:00	22.9	3.54	48.8
7/10/2008	3:30:00	22.8	3.55	48.8
7/10/2008	3:45:00	22.7	3.56	48.9
7/10/2008	4:00:00	22.7	3.57	49.0
7/10/2008	4:15:00	22.6	3.58	49.0
7/10/2008	4:30:00	22.5	3.59	49.1
7/10/2008	4:45:00	22.4	3.59	49.1
7/10/2008	5:00:00	22.4	3.60	49.1
7/10/2008	5:15:00	22.3	3.60	49.0
7/10/2008	5:30:00	22.2	3.58	48.7
7/10/2008	5:45:00	22.2	3.58	48.6

Table 5.79. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/10/2008	6:00:00	22.1	3.58	48.6
7/10/2008	6:15:00	22.0	3.59	48.6
7/10/2008	6:30:00	22.0	3.60	48.7
7/10/2008	6:45:00	21.9	3.62	48.9
7/10/2008	7:00:00	21.9	3.61	48.7
7/10/2008	7:15:00	21.9	3.60	48.5
7/10/2008	7:30:00	21.8	3.56	48.0
7/10/2008	7:45:00	21.8	3.52	47.5
7/10/2008	8:00:00	21.8	3.51	47.3
7/10/2008	8:15:00	21.8	3.50	47.1
7/10/2008	8:30:00	21.8	3.49	47.1
7/10/2008	8:45:00	21.8	3.50	47.2
7/10/2008	9:00:00	21.8	3.50	47.2
7/10/2008	9:15:00	21.8	3.50	47.3
7/10/2008	9:30:00	21.8	3.51	47.3
7/10/2008	9:45:00	21.8	3.52	47.4
7/10/2008	10:00:00	21.8	3.53	47.6
7/10/2008	10:15:00	21.9	3.54	47.8
7/10/2008	10:30:00	21.9	3.57	48.2
7/10/2008	10:45:00	21.9	3.58	48.4
7/10/2008	11:00:00	21.9	3.58	48.4
7/10/2008	11:15:00	21.9	3.52	47.6
7/10/2008	11:30:00	21.9	3.53	47.7
7/10/2008	11:45:00	22.0	3.62	48.9
7/10/2008	12:00:00	22.0	3.68	49.8
7/10/2008	12:15:00	22.1	3.72	50.4
7/10/2008	12:30:00	22.1	3.73	50.6
7/10/2008	12:45:00	22.1	3.75	50.9
7/10/2008	13:00:00	22.2	3.76	51.1
7/10/2008	13:15:00	22.2	3.79	51.5
7/10/2008	13:30:00	22.2	3.81	51.8
7/10/2008	13:45:00	22.2	3.77	51.3
7/10/2008	14:00:00	22.2	3.81	51.8
7/10/2008	14:15:00	22.2	3.82	51.9
7/10/2008	14:30:00	22.3	3.82	52.0
7/10/2008	14:45:00	22.3	3.85	52.5
7/10/2008	15:00:00	22.3	3.89	52.9
7/10/2008	15:15:00	22.3	3.90	53.2
7/10/2008	15:30:00	22.4	3.90	53.2
7/10/2008	15:45:00	22.4	3.83	52.2
7/10/2008	16:00:00	22.4	3.83	52.3
7/10/2008	16:15:00	22.5	3.86	52.7
7/10/2008	16:30:00	22.6	3.87	52.9
7/10/2008	16:45:00	22.6	3.86	52.9
7/10/2008	17:00:00	22.7	3.86	52.9
7/10/2008	17:15:00	22.7	3.81	52.3

Table 5.79. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/10/2008	17:30:00	22.7	3.80	52.1
7/10/2008	17:45:00	22.7	3.79	52.0
7/10/2008	18:00:00	22.8	3.72	51.1
7/10/2008	18:15:00	22.8	3.77	51.8
7/10/2008	18:30:00	22.8	3.79	52.1
7/10/2008	18:45:00	22.8	3.79	52.1
7/10/2008	19:00:00	22.8	3.80	52.2
7/10/2008	19:15:00	22.8	3.79	52.1
7/10/2008	19:30:00	22.8	3.80	52.2
7/10/2008	19:45:00	22.7	3.81	52.4
7/10/2008	20:00:00	22.7	3.84	52.7
7/10/2008	20:15:00	22.7	3.87	53.1
7/10/2008	20:30:00	22.7	3.89	53.4
7/10/2008	20:45:00	22.7	3.92	53.8
7/10/2008	21:00:00	22.8	3.94	54.1
7/10/2008	21:15:00	22.8	3.96	54.4
7/10/2008	21:30:00	22.8	3.98	54.6
7/10/2008	21:45:00	22.8	3.98	54.7
7/10/2008	22:00:00	22.7	3.99	54.7
7/10/2008	22:15:00	22.7	3.11	42.7
7/10/2008	22:30:00	22.7	2.82	38.7
7/10/2008	22:45:00	22.7	2.90	39.8
7/10/2008	23:00:00	22.7	3.04	41.7
7/10/2008	23:15:00	22.6	3.17	43.4
7/10/2008	23:30:00	22.6	3.29	45.1
7/10/2008	23:45:00	22.6	3.40	46.5
7/11/2008	0:00:00	22.5	3.50	47.8
7/11/2008	0:15:00	22.5	3.60	49.1
7/11/2008	0:30:00	22.4	3.68	50.3
7/11/2008	0:45:00	22.4	3.77	51.4
7/11/2008	1:00:00	22.3	3.85	52.4
7/11/2008	1:15:00	22.2	3.88	52.8
7/11/2008	1:30:00	22.2	3.86	52.5
7/11/2008	1:45:00	22.1	3.81	51.7
7/11/2008	2:00:00	22.0	3.76	50.9
7/11/2008	2:15:00	21.9	3.71	50.1
7/11/2008	2:30:00	21.9	3.66	49.5
7/11/2008	2:45:00	21.8	3.61	48.8
7/11/2008	3:00:00	21.8	3.58	48.2
7/11/2008	3:15:00	21.7	3.54	47.7
7/11/2008	3:30:00	21.7	3.52	47.3
7/11/2008	3:45:00	21.6	3.50	47.0
7/11/2008	4:00:00	21.6	3.48	46.7
7/11/2008	4:15:00	21.5	3.46	46.5
7/11/2008	4:30:00	21.5	3.45	46.3
7/11/2008	4:45:00	21.5	3.48	46.6

Table 5.79. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/11/2008	5:00:00	21.4	3.48	46.6
7/11/2008	5:15:00	21.4	3.45	46.2
7/11/2008	5:30:00	21.4	3.59	48.0
7/11/2008	5:45:00	21.3	3.66	48.9
7/11/2008	6:00:00	21.3	3.69	49.3
7/11/2008	6:15:00	21.3	3.68	49.1
7/11/2008	6:30:00	21.3	3.61	48.2
7/11/2008	6:45:00	21.3	3.53	47.1
7/11/2008	7:00:00	21.2	3.60	47.9
7/11/2008	7:15:00	21.2	5.77	76.9
7/11/2008	7:30:00	21.2	5.21	69.3
7/11/2008	7:45:00	21.2	5.09	67.8
7/11/2008	8:00:00	21.2	5.27	70.2
7/11/2008	8:15:00	21.2	5.02	66.9
7/11/2008	8:30:00	21.2	4.79	63.9
7/11/2008	8:45:00	21.2	4.71	62.7
7/11/2008	9:00:00	21.2	4.53	60.4
7/11/2008	9:15:00	21.2	4.35	58.0
7/11/2008	9:30:00	21.2	4.18	55.8
7/11/2008	9:45:00	21.2	4.03	53.8
7/11/2008	10:00:00	21.3	3.90	52.0

Table 5.80. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Phoebe**
Log	**File**	**Name**	**:**	**SITE5-7-7-08**
Setup	**Date**	**(MMDDYY)**	**:**	**70608**
Setup	**Time**	**(HHMMSS)**	**:**	**211158**
Starting	**Date**	**(MMDDYY)**	**:**	**70708**
Starting	**Time**	**(HHMMSS)**	**:**	**120000**
Stopping	**Date**	**(MMDDYY)**	**:**	**71108**
Stopping	**Time**	**(HHMMSS)**	**:**	**100000**
Measurement	**Interval**	**(HHMMSS)**	**:**	**1500**
Sensor	**warmup**	**(HHMMSS)**	**:**	**200**
Circulator	**warmup**	**(HHMMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
7/7/2008	12:00:00	24.4	303	7.84	6.42	90.7
7/7/2008	12:15:00	24.5	352	7.84	6.47	91.5
7/7/2008	12:30:00	24.5	327	7.84	6.42	90.8
7/7/2008	12:45:00	24.6	345	7.85	6.40	90.6
7/7/2008	13:00:00	24.6	358	7.85	6.40	90.8
7/7/2008	13:15:00	24.7	331	7.86	6.41	91.0
7/7/2008	13:30:00	24.7	294	7.87	6.40	90.9
7/7/2008	13:45:00	24.7	257	7.87	6.37	90.5
7/7/2008	14:00:00	24.9	215	7.87	6.33	90.1
7/7/2008	14:15:00	25.0	204	7.87	6.36	90.7
7/7/2008	14:30:00	25.1	193	7.89	6.28	89.8
7/7/2008	14:45:00	25.2	175	7.89	6.26	89.6
7/7/2008	15:00:00	25.3	171	7.91	6.32	90.7
7/7/2008	15:15:00	25.4	168	7.90	6.40	92.1
7/7/2008	15:30:00	25.6	169	7.91	6.48	93.5
7/7/2008	15:45:00	25.7	172	7.90	6.39	92.3
7/7/2008	16:00:00	25.8	172	7.89	6.37	92.1
7/7/2008	16:15:00	25.8	175	7.88	6.32	91.5
7/7/2008	16:30:00	25.9	175	7.87	6.22	90.2
7/7/2008	16:45:00	25.9	174	7.86	6.14	89.0
7/7/2008	17:00:00	25.9	175	7.85	6.01	87.2
7/7/2008	17:15:00	26.0	175	7.84	5.93	86.0
7/7/2008	17:30:00	26.0	175	7.83	5.93	86.1
7/7/2008	17:45:00	26.0	175	7.83	5.89	85.7
7/7/2008	18:00:00	26.1	175	7.81	5.78	84.0
7/7/2008	18:15:00	26.1	175	7.81	5.79	84.2
7/7/2008	18:30:00	26.0	175	7.80	5.72	83.2
7/7/2008	18:45:00	25.9	175	7.79	5.80	84.2
7/7/2008	19:00:00	25.9	175	7.78	5.77	83.7
7/7/2008	19:15:00	25.8	176	7.77	5.73	82.9
7/7/2008	19:30:00	25.8	175	7.77	5.71	82.6
7/7/2008	19:45:00	25.7	174	7.78	5.70	82.4

Table 5.80. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/7/2008	20:00:00	25.7	173	7.78	5.56	80.2
7/7/2008	20:15:00	25.7	172	7.78	5.56	80.3
7/7/2008	20:30:00	25.6	169	7.79	5.47	79.0
7/7/2008	20:45:00	25.5	168	7.78	5.47	78.8
7/7/2008	21:00:00	25.5	167	7.78	5.45	78.5
7/7/2008	21:15:00	25.4	166	7.77	5.62	80.8
7/7/2008	21:30:00	25.4	166	7.77	5.63	80.9
7/7/2008	21:45:00	25.3	166	7.79	5.41	77.7
7/7/2008	22:00:00	25.3	166	7.78	5.45	78.1
7/7/2008	22:15:00	25.2	166	7.77	5.55	79.5
7/7/2008	22:30:00	25.1	166	7.78	5.54	79.2
7/7/2008	22:45:00	25.1	165	7.78	5.41	77.4
7/7/2008	23:00:00	25.0	166	7.79	5.38	76.8
7/7/2008	23:15:00	25.0	166	7.78	5.37	76.6
7/7/2008	23:30:00	25.0	166	7.78	5.41	77.1
7/7/2008	23:45:00	24.9	166	7.78	5.36	76.4
7/8/2008	0:00:00	24.9	165	7.79	5.38	76.6
7/8/2008	0:15:00	24.8	165	7.77	5.42	77.0
7/8/2008	0:30:00	24.7	165	7.77	4.96	70.3
7/8/2008	0:45:00	24.6	165	7.78	4.99	70.7
7/8/2008	1:00:00	24.6	165	7.77	4.89	69.2
7/8/2008	1:15:00	24.5	165	7.78	4.79	67.6
7/8/2008	1:30:00	24.4	165	7.78	4.53	63.8
7/8/2008	1:45:00	24.3	164	7.77	4.56	64.1
7/8/2008	2:00:00	24.1	164	7.78	4.46	62.6
7/8/2008	2:15:00	24.1	163	7.78	4.39	61.5
7/8/2008	2:30:00	24.0	163	7.78	4.32	60.4
7/8/2008	2:45:00	23.9	163	7.77	4.30	60.0
7/8/2008	3:00:00	23.8	163	7.77	4.18	58.3
7/8/2008	3:15:00	23.7	163	7.77	4.21	58.7
7/8/2008	3:30:00	23.6	164	7.77	4.07	56.6
7/8/2008	3:45:00	23.6	164	7.77	3.97	55.2
7/8/2008	4:00:00	23.5	164	7.77	4.03	55.9
7/8/2008	4:15:00	23.4	164	7.77	3.87	53.5
7/8/2008	4:30:00	23.3	164	7.77	3.84	53.1
7/8/2008	4:45:00	23.3	165	7.77	3.74	51.7
7/8/2008	5:00:00	23.2	165	7.77	3.75	51.8
7/8/2008	5:15:00	23.1	165	7.77	3.72	51.2
7/8/2008	5:30:00	23.1	164	7.77	3.72	51.2
7/8/2008	5:45:00	23.0	164	7.77	3.58	49.2
7/8/2008	6:00:00	22.9	164	7.77	3.73	51.2
7/8/2008	6:15:00	22.9	163	7.77	3.63	49.8
7/8/2008	6:30:00	22.8	163	7.76	3.73	51.1
7/8/2008	6:45:00	22.8	162	7.76	3.73	51.1
7/8/2008	7:00:00	22.8	162	7.75	3.70	50.6
7/8/2008	7:15:00	22.7	161	7.76	3.60	49.2

Table 5.80. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	7:30:00	22.7	161	7.76	3.60	49.2
7/8/2008	7:45:00	22.7	161	7.76	3.75	51.3
7/8/2008	8:00:00	22.7	160	7.76	3.77	51.4
7/8/2008	8:15:00	22.6	160	7.77	3.74	51.0
7/8/2008	8:30:00	22.6	160	7.77	3.88	52.9
7/8/2008	8:45:00	22.6	160	7.77	3.92	53.5
7/8/2008	9:00:00	22.6	161	7.77	3.90	53.1
7/8/2008	9:15:00	22.6	161	7.78	3.84	52.4
7/8/2008	9:30:00	22.7	161	7.79	3.92	53.6
7/8/2008	9:45:00	22.7	161	7.78	4.06	55.5
7/8/2008	10:00:00	22.8	162	7.79	4.02	55.0
7/8/2008	10:15:00	22.9	162	7.80	3.99	54.8
7/8/2008	10:30:00	23.0	163	7.80	4.08	56.1
7/8/2008	10:45:00	23.1	163	7.81	3.97	54.7
7/8/2008	11:00:00	23.1	164	7.81	4.05	55.8
7/8/2008	11:15:00	23.2	164	7.81	3.95	54.5
7/8/2008	11:30:00	23.2	165	7.82	3.93	54.3
7/8/2008	11:45:00	23.3	165	7.82	3.98	55.0
7/8/2008	12:00:00	23.3	166	7.82	4.04	55.8
7/8/2008	12:15:00	23.3	166	7.82	4.05	55.9
7/8/2008	12:30:00	23.3	166	7.82	4.07	56.3
7/8/2008	12:45:00	23.4	167	7.82	4.08	56.6
7/8/2008	13:00:00	23.5	167	7.83	3.94	54.7
7/8/2008	13:15:00	23.5	167	7.84	4.00	55.5
7/8/2008	13:30:00	23.6	167	7.84	3.84	53.3
7/8/2008	13:45:00	23.8	167	7.84	3.84	53.5
7/8/2008	14:00:00	23.9	167	7.84	3.81	53.3
7/8/2008	14:15:00	24.0	167	7.84	3.69	51.7
7/8/2008	14:30:00	24.3	168	7.86	3.56	50.1
7/8/2008	14:45:00	24.4	168	7.87	3.55	50.2
7/8/2008	15:00:00	24.6	168	7.87	3.51*	49.8
7/8/2008	15:15:00	24.9	168	7.87	3.47	49.4
7/8/2008	15:30:00	25.0	168	7.87	3.49	49.9
7/8/2008	15:45:00	25.2	168	7.87	3.31	47.3
7/8/2008	16:00:00	25.3	169	7.88	3.23	46.3
7/8/2008	16:15:00	25.4	168	7.89	3.10	44.6
7/8/2008	16:30:00	25.4	169	7.89	3.05	43.9
7/8/2008	16:45:00	25.4	170	7.88	2.97	42.6
7/8/2008	17:00:00	25.4	170	7.89	3.12	44.9
7/8/2008	17:15:00	25.4	170	7.88	3.02	43.5
7/8/2008	17:30:00	25.5	170	7.88	2.77	39.9
7/8/2008	17:45:00	25.5	170	7.90	2.67	38.5
7/8/2008	18:00:00	25.5	169	7.89	2.66	38.3
7/8/2008	18:15:00	25.5	169	7.88	2.49	35.8
7/8/2008	18:30:00	25.5	169	7.89	2.43	35.0
7/8/2008	18:45:00	25.5	169	7.89	2.39	34.5

Table 5.80. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	19:00:00	25.5	169	7.88	2.39	34.5
7/8/2008	19:15:00	25.4	169	7.88	2.33	33.5
7/8/2008	19:30:00	25.4	169	7.88	2.27	32.6
7/8/2008	19:45:00	25.5	169	7.88	2.07	29.7
7/8/2008	20:00:00	25.5	169	7.88	2.05	29.4
7/8/2008	20:15:00	25.5	168	7.88	1.94	27.9
7/8/2008	20:30:00	25.4	168	7.88	2.02	29.0
7/8/2008	20:45:00	25.4	168	7.87	2.00	28.8
7/8/2008	21:00:00	25.3	168	7.87	2.00	28.7
7/8/2008	21:15:00	25.3	168	7.86	1.92	27.5
7/8/2008	21:30:00	25.3	168	7.87	1.78	25.6
7/8/2008	21:45:00	25.3	168	7.87	1.54	22.2
7/8/2008	22:00:00	25.3	168	7.86	1.29	18.5
7/8/2008	22:15:00	25.3	168	7.86	1.16	16.6
7/8/2008	22:30:00	25.2	168	7.86	0.99	14.2
7/8/2008	22:45:00	25.2	168	7.86	0.92	13.2
7/8/2008	23:00:00	25.1	168	7.85	0.84	12.1
7/8/2008	23:15:00	25.1	168	7.85	0.74	10.5
7/8/2008	23:30:00	25.0	168	7.85	0.66	9.4
7/8/2008	23:45:00	24.9	168	7.85	0.69	9.8
7/9/2008	0:00:00	24.9	168	7.84	0.69	9.8
7/9/2008	0:15:00	24.8	168	7.84	0.57	8.1
7/9/2008	0:30:00	24.8	168	7.84	0.45	6.4
7/9/2008	0:45:00	24.7	168	7.83	0.45	6.3
7/9/2008	1:00:00	24.6	167	7.83	0.36	5.1
7/9/2008	1:15:00	24.5	168	7.83	0.48	6.8
7/9/2008	1:30:00	24.4	167	7.84	0.56	8.0
7/9/2008	1:45:00	24.3	167	7.84	0.50	7.1
7/9/2008	2:00:00	24.2	167	7.83	0.35	4.9
7/9/2008	2:15:00	24.1	167	7.83	0.45	6.3
7/9/2008	2:30:00	24.0	167	7.82	0.30	4.2
7/9/2008	2:45:00	23.9	167	7.84	0.31	4.3
7/9/2008	3:00:00	23.9	167	7.83	0.41	5.7
7/9/2008	3:15:00	23.8	166	7.83	0.27	3.7
7/9/2008	3:30:00	23.7	167	7.83	0.30	4.2
7/9/2008	3:45:00	23.7	167	7.83	0.36	5.0
7/9/2008	4:00:00	23.6	168	7.82	0.30	4.2
7/9/2008	4:15:00	23.5	168	7.81	0.32	4.5
7/9/2008	4:30:00	23.4	167	7.82	0.37	5.2
7/9/2008	4:45:00	23.4	167	7.82	0.36	5.0
7/9/2008	5:00:00	23.3	166	7.81	0.30	4.2
7/9/2008	5:15:00	23.2	166	7.81	0.41	5.7
7/9/2008	5:30:00	23.1	166	7.81	0.44	6.0
7/9/2008	5:45:00	23.0	165	7.81	0.41	5.6
7/9/2008	6:00:00	23.0	165	7.80	0.63	8.6
7/9/2008	6:15:00	22.9	165	7.80	0.50	6.8

Table 5.80. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	6:30:00	22.8	165	7.80	0.49	6.7
7/9/2008	6:45:00	22.8	165	7.79	0.39	5.3
7/9/2008	7:00:00	22.7	164	7.79	0.49	6.7
7/9/2008	7:15:00	22.7	164	7.79	0.42	5.7
7/9/2008	7:30:00	22.6	164	7.79	0.30	4.1
7/9/2008	7:45:00	22.6	163	7.79	0.31	4.3
7/9/2008	8:00:00	22.6	163	7.79	0.39	5.4
7/9/2008	8:15:00	22.5	164	7.79	0.31	4.3
7/9/2008	8:30:00	22.5	164	7.79	0.38	5.2
7/9/2008	8:45:00	22.5	164	7.80	0.23	3.1
7/9/2008	9:00:00	22.5	165	7.79	0.30	4.1
7/9/2008	9:15:00	22.5	165	7.79	0.22	3.0
7/9/2008	9:30:00	22.5	165	7.79	0.28	3.8
7/9/2008	9:45:00	22.5	166	7.78	0.20	2.8
7/9/2008	10:00:00	22.5	166	7.78	0.29	3.9
7/9/2008	10:15:00	22.5	166	7.79	0.44	6.0
7/9/2008	10:30:00	22.5	166	7.80	0.37	5.1
7/9/2008	10:45:00	22.5	166	7.79	0.48	6.5
7/9/2008	11:00:00	22.5	167	7.80	0.46	6.3
7/9/2008	11:15:00	22.5	167	7.80	0.62	8.4
7/9/2008	11:30:00	22.5	167	7.81	0.57	7.8
7/9/2008	11:45:00	22.6	167	7.82	0.55	7.4
7/9/2008	12:00:00	22.7	168	7.81	0.56	7.7
7/9/2008	12:15:00	22.8	168	7.83	0.49	6.7
7/9/2008	12:30:00	22.9	169	7.82	0.49	6.8
7/9/2008	12:45:00	22.9	168	7.83	0.43	5.9
7/9/2008	13:00:00	23.1	169	7.84	0.46	6.3
7/9/2008	13:15:00	23.2	169	7.84	0.50	6.9
7/9/2008	13:30:00	23.2	169	7.84	0.47	6.5
7/9/2008	13:45:00	23.3	169	7.84	0.41	5.7
7/9/2008	14:00:00	23.3	169	7.85	0.43	6.0
7/9/2008	14:15:00	23.3	169	7.85	0.52	7.2
7/9/2008	14:30:00	23.3	170	7.86	0.52	7.2
7/9/2008	14:45:00	23.4	170	7.86	0.48	6.6
7/9/2008	15:00:00	23.5	170	7.87	0.46	6.4
7/9/2008	15:15:00	23.6	170	7.86	0.43	6.0
7/9/2008	15:30:00	23.8	170	7.87	0.43	6.0
7/9/2008	15:45:00	23.9	170	7.87	0.36	5.1
7/9/2008	16:00:00	24.0	170	7.87	0.32	4.5
7/9/2008	16:15:00	24.0	169	7.88	0.34	4.8
7/9/2008	16:30:00	24.0	169	7.88	0.30	4.2
7/9/2008	16:45:00	24.1	169	7.89	0.26	3.7
7/9/2008	17:00:00	24.1	169	7.88	0.20	2.9
7/9/2008	17:15:00	24.1	169	7.90	0.22	3.1
7/9/2008	17:30:00	24.1	168	7.88	0.21	2.9
7/9/2008	17:45:00	24.1	169	7.88	0.21	3.0

Table 5.80. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	18:00:00	24.0	168	7.88	0.18	2.5
7/9/2008	18:15:00	24.0	168	7.89	0.18	2.5
7/9/2008	18:30:00	23.9	168	7.88	0.21	2.9
7/9/2008	18:45:00	23.9	168	7.87	0.19	2.6
7/9/2008	19:00:00	23.8	168	7.87	0.10	1.3
7/9/2008	19:15:00	23.8	168	7.88	0.12	1.6
7/9/2008	19:30:00	23.8	168	7.87	0.13	1.8
7/9/2008	19:45:00	23.8	168	7.87	0.10	1.3
7/9/2008	20:00:00	23.7	168	7.87	0.12	1.6
7/9/2008	20:15:00	23.7	168	7.86	0.10	1.5
7/9/2008	20:30:00	23.7	168	7.86	0.16	2.2
7/9/2008	20:45:00	23.7	168	7.86	0.14	1.9
7/9/2008	21:00:00	23.6	168	7.86	0.12	1.7
7/9/2008	21:15:00	23.6	168	7.85	0.12	1.6
7/9/2008	21:30:00	23.5	168	7.85	0.15	2.1
7/9/2008	21:45:00	23.5	168	7.85	0.10	1.4
7/9/2008	22:00:00	23.4	168	7.84	0.15	2.1
7/9/2008	22:15:00	23.4	168	7.84	0.10	1.4
7/9/2008	22:30:00	23.3	168	7.84	0.24	3.3
7/9/2008	22:45:00	23.3	168	7.84	0.22	3.0
7/9/2008	23:00:00	23.2	168	7.82	0.27	3.7
7/9/2008	23:15:00	23.2	168	7.83	0.27	3.7
7/9/2008	23:30:00	23.2	168	7.83	0.26	3.6
7/9/2008	23:45:00	23.2	168	7.82	0.17	2.4
7/10/2008	0:00:00	23.1	169	7.82	0.25	3.4
7/10/2008	0:15:00	23.1	169	7.82	0.17	2.4
7/10/2008	0:30:00	23.1	169	7.80	0.12	1.7
7/10/2008	0:45:00	23.0	169	7.81	0.15	2.0
7/10/2008	1:00:00	23.0	170	7.81	0.14	2.0
7/10/2008	1:15:00	23.0	170	7.81	0.14	1.9
7/10/2008	1:30:00	22.9	170	7.79	0.10	1.4
7/10/2008	1:45:00	22.9	170	7.78	0.12	1.6
7/10/2008	2:00:00	22.8	170	7.78	0.15	2.0
7/10/2008	2:15:00	22.8	170	7.79	0.11	1.5
7/10/2008	2:30:00	22.7	170	7.78	0.11	1.4
7/10/2008	2:45:00	22.7	170	7.78	0.10	1.4
7/10/2008	3:00:00	22.6	170	7.79	0.09	1.2
7/10/2008	3:15:00	22.6	170	7.77	0.10	1.3
7/10/2008	3:30:00	22.5	170	7.77	0.10	1.4
7/10/2008	3:45:00	22.4	170	7.76	0.13	1.7
7/10/2008	4:00:00	22.4	170	7.77	0.15	2.1
7/10/2008	4:15:00	22.3	169	7.75	0.20	2.7
7/10/2008	4:30:00	22.2	170	7.75	0.20	2.6
7/10/2008	4:45:00	22.1	170	7.75	0.14	1.9
7/10/2008	5:00:00	22.1	170	7.74	0.18	2.5
7/10/2008	5:15:00	22.0	170	7.76	0.14	1.8

Table 5.80. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/10/2008	5:30:00	21.9	170	7.73	0.20	2.7
7/10/2008	5:45:00	21.8	170	7.73	0.10	1.3
7/10/2008	6:00:00	21.8	170	7.71	0.17	2.3
7/10/2008	6:15:00	21.7	170	7.73	0.10	1.4
7/10/2008	6:30:00	21.7	170	7.71	0.16	2.1
7/10/2008	6:45:00	21.6	170	7.70	0.17	2.3
7/10/2008	7:00:00	21.6	170	7.70	0.19	2.5
7/10/2008	7:15:00	21.5	170	7.67	0.17	2.3
7/10/2008	7:30:00	21.5	170	7.66	0.16	2.1
7/10/2008	7:45:00	21.5	170	7.65	0.16	2.2
7/10/2008	8:00:00	21.5	170	7.67	0.13	1.7
7/10/2008	8:15:00	21.5	170	7.67	0.12	1.6
7/10/2008	8:30:00	21.5	170	7.65	0.12	1.6
7/10/2008	8:45:00	21.5	170	7.66	0.11	1.5
7/10/2008	9:00:00	21.5	170	7.65	0.15	2.0
7/10/2008	9:15:00	21.5	170	7.66	0.09	1.2
7/10/2008	9:30:00	21.5	169	7.67	0.12	1.6
7/10/2008	9:45:00	21.5	169	7.65	0.11	1.5
7/10/2008	10:00:00	21.5	169	7.65	0.12	1.6
7/10/2008	10:15:00	21.5	169	7.63	0.13	1.8
7/10/2008	10:30:00	21.6	169	7.64	0.12	1.6
7/10/2008	10:45:00	21.6	169	7.62	0.13	1.8
7/10/2008	11:00:00	21.6	169	7.62	0.14	1.9
7/10/2008	11:15:00	21.6	169	7.64	0.13	1.7
7/10/2008	11:30:00	21.6	170	7.71	0.09	1.2
7/10/2008	11:45:00	21.6	169	7.73	0.14	1.9
7/10/2008	12:00:00	21.7	170	7.77	0.12	1.6
7/10/2008	12:15:00	21.7	170	7.78	0.11	1.4
7/10/2008	12:30:00	21.8	170	7.77	0.12	1.6
7/10/2008	12:45:00	21.8	170	7.78	0.11	1.5
7/10/2008	13:00:00	21.9	170	7.78	0.11	1.5
7/10/2008	13:15:00	21.9	170	7.79	0.13	1.7
7/10/2008	13:30:00	21.9	171	7.77	0.19	2.5
7/10/2008	13:45:00	21.9	171	7.78	0.15	2.0
7/10/2008	14:00:00	21.9	171	7.77	0.11	1.4
7/10/2008	14:15:00	21.9	171	7.73	0.15	2.0
7/10/2008	14:30:00	22.0	171	7.71	0.10	1.3
7/10/2008	14:45:00	22.0	171	7.69	0.11	1.5
7/10/2008	15:00:00	22.0	172	7.67	0.12	1.7
7/10/2008	15:15:00	22.0	172	7.66	0.08	1.1
7/10/2008	15:30:00	22.0	172	7.65	0.09	1.2
7/10/2008	15:45:00	22.1	172	7.65	0.09	1.1
7/10/2008	16:00:00	22.1	173	7.62	0.09	1.2
7/10/2008	16:15:00	22.2	173	7.61	0.14	1.9
7/10/2008	16:30:00	22.2	174	7.59	0.20	2.7
7/10/2008	16:45:00	22.3	173	7.58	0.18	2.5

Table 5.80. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/10/2008	17:00:00	22.3	174	7.57	0.21	2.9
7/10/2008	17:15:00	22.4	174	7.58	0.19	2.5
7/10/2008	17:30:00	22.4	175	7.56	0.15	2.1
7/10/2008	17:45:00	22.4	175	7.57	0.16	2.2
7/10/2008	18:00:00	22.4	175	7.57	0.13	1.7
7/10/2008	18:15:00	22.4	175	7.55	0.09	1.3
7/10/2008	18:30:00	22.5	176	7.55	0.10	1.4
7/10/2008	18:45:00	22.5	176	7.54	0.13	1.8
7/10/2008	19:00:00	22.5	176	7.53	0.12	1.6
7/10/2008	19:15:00	22.5	176	7.54	0.11	1.5
7/10/2008	19:30:00	22.5	176	7.57	0.08	1.1
7/10/2008	19:45:00	22.4	177	7.56	0.11	1.5
7/10/2008	20:00:00	22.4	177	7.55	0.12	1.6
7/10/2008	20:15:00	22.4	177	7.51	0.12	1.6
7/10/2008	20:30:00	22.4	177	7.51	0.08	1.1
7/10/2008	20:45:00	22.4	177	7.50	0.09	1.2
7/10/2008	21:00:00	22.4	177	7.49	0.12	1.7
7/10/2008	21:15:00	22.5	177	7.48	0.08	1.1
7/10/2008	21:30:00	22.4	177	7.48	0.12	1.7
7/10/2008	21:45:00	22.4	177	7.48	0.15	2.0
7/10/2008	22:00:00	22.4	177	7.47	0.15	2.0
7/10/2008	22:15:00	22.4	177	7.46	0.09	1.2
7/10/2008	22:30:00	22.4	177	7.46	0.12	1.6
7/10/2008	22:45:00	22.4	177	7.46	0.10	1.3
7/10/2008	23:00:00	22.3	177	7.50	0.11	1.4
7/10/2008	23:15:00	22.3	177	7.49	0.09	1.2
7/10/2008	23:30:00	22.3	178	7.48	0.11	1.4
7/10/2008	23:45:00	22.3	179	7.46	0.10	1.3
7/11/2008	0:00:00	22.2	179	7.46	0.08	1.1
7/11/2008	0:15:00	22.2	179	7.45	0.09	1.3
7/11/2008	0:30:00	22.1	179	7.44	0.13	1.8
7/11/2008	0:45:00	22.1	185	7.44	0.11	1.4
7/11/2008	1:00:00	22.0	201	7.42	0.11	1.4
7/11/2008	1:15:00	21.9	219	7.38	0.09	1.2
7/11/2008	1:30:00	21.9	236	7.36	0.11	1.5
7/11/2008	1:45:00	21.8	242	7.34	0.13	1.7
7/11/2008	2:00:00	21.7	239	7.32	0.12	1.6
7/11/2008	2:15:00	21.6	254	7.32	0.12	1.6
7/11/2008	2:30:00	21.6	262	7.30	0.11	1.4
7/11/2008	2:45:00	21.5	274	7.29	0.12	1.6
7/11/2008	3:00:00	21.5	284	7.29	0.12	1.6
7/11/2008	3:15:00	21.4	299	7.29	0.10	1.4
7/11/2008	3:30:00	21.3	313	7.29	0.08	1.1
7/11/2008	3:45:00	21.3	327	7.28	0.11	1.5
7/11/2008	4:00:00	21.3	341	7.28	0.08	1.1
7/11/2008	4:15:00	21.2	347	7.38	0.13	1.7

Table 5.80. Water quality measurements at Site 5, Rio Grande at La Joya, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/11/2008	4:30:00	21.2	357	7.37	0.11	1.4
7/11/2008	4:45:00	21.1	360	7.37	0.12	1.6
7/11/2008	5:00:00	21.1	363	7.37	0.09	1.2
7/11/2008	5:15:00	21.1	373	7.37	0.09	1.2
7/11/2008	5:30:00	21.0	381	7.38	0.09	1.2
7/11/2008	5:45:00	21.0	385	7.38	0.11	1.4
7/11/2008	6:00:00	21.0	387	7.44	0.11	1.5
7/11/2008	6:15:00	21.0	388	7.45	0.14	1.9
7/11/2008	6:30:00	20.9	378	7.45	0.12	1.5
7/11/2008	6:45:00	20.9	394	7.46	0.21	2.7
7/11/2008	7:00:00	20.9	372	7.50	0.13	1.8
7/11/2008	7:15:00	20.9	373	7.51	0.10	1.4
7/11/2008	7:30:00	20.9	373	7.52	0.10	1.3
7/11/2008	7:45:00	20.9	373	7.50	0.13	1.7
7/11/2008	8:00:00	20.9	374	7.49	0.13	1.7
7/11/2008	8:15:00	20.9	374	7.49	0.11	1.5
7/11/2008	8:30:00	20.9	374	7.48	0.12	1.6
7/11/2008	8:45:00	20.9	374	7.47	0.11	1.5
7/11/2008	9:00:00	20.9	374	7.47	0.11	1.5
7/11/2008	9:15:00	20.9	373	7.47	0.12	1.6
7/11/2008	9:30:00	21.0	373	7.47	0.12	1.6
7/11/2008	9:45:00	21.0	373	7.46	0.14	1.8
7/11/2008	10:00:00	21.0	373	7.46	0.09	1.2

Table 5.81. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Apollo**
Log	**File**	**Name**	**:**	**Site6_7-7-08Ap**
Setup	**Date**	**(MMDDYY)**	**:**	**7/7/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**9:07:40**
Starting	**Date**	**(MMDDYY)**	**:**	**7/7/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**10:00:00**
Stopping	**Date**	**(MMDDYY)**	**:**	**7/11/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**10:00:00**
Measurement	**Interval**	**(MMSS)**	**:**	**1500**

Date (MMDDYYYY)	Time (HHMMSS)	Temperature (C)	DO mg/L	DO Saturation (%)
7/7/2008	10:00:00	24.5	7.13	100.6
7/7/2008	10:15:00	24.6	7.17	101.3
7/7/2008	10:30:00	24.7	7.24	102.6
7/7/2008	10:45:00	24.8	7.31	103.8
7/7/2008	11:00:00	24.9	7.36	104.7
7/7/2008	11:15:00	25.0	7.36	104.8
7/7/2008	11:30:00	25.1	7.45	106.2
7/7/2008	11:45:00	25.1	7.45	106.4
7/7/2008	12:00:00	25.2	7.48	106.9
7/7/2008	12:15:00	25.2	7.50	107.4
7/7/2008	12:30:00	25.3	7.52	107.7
7/7/2008	12:45:00	25.5	7.55	108.5
7/7/2008	13:00:00	25.5	7.57	108.9
7/7/2008	13:15:00	25.6	7.59	109.3
7/7/2008	13:30:00	25.7	7.59	109.5
7/7/2008	13:45:00	25.8	7.61	109.9
7/7/2008	14:00:00	26.0	7.66	111.1
7/7/2008	14:15:00	26.1	7.67	111.6
7/7/2008	14:30:00	26.3	7.69	112.3
7/7/2008	14:45:00	26.5	7.74	113.5
7/7/2008	15:00:00	26.8	7.77	114.4
7/7/2008	15:15:00	27.0	7.80	115.2
7/7/2008	15:30:00	26.9	7.72	114.1
7/7/2008	15:45:00	27.0	7.61	112.4
7/7/2008	16:00:00	26.9	7.38	108.9
7/7/2008	16:15:00	26.8	7.12	104.9
7/7/2008	16:30:00	26.7	6.93	102.0
7/7/2008	16:45:00	26.7	6.81	100.1
7/7/2008	17:00:00	26.7	6.74	99.0
7/7/2008	17:15:00	26.6	6.68	98.0
7/7/2008	17:30:00	26.6	6.65	97.5
7/7/2008	17:45:00	26.5	6.63	97.2
7/7/2008	18:00:00	26.5	6.62	96.9

Table 5.81. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/7/2008	18:15:00	26.4	6.61	96.6
7/7/2008	18:30:00	26.3	6.61	96.5
7/7/2008	18:45:00	26.2	6.61	96.3
7/7/2008	19:00:00	26.2	6.61	96.2
7/7/2008	19:15:00	26.2	6.62	96.4
7/7/2008	19:30:00	26.1	6.61	96.2
7/7/2008	19:45:00	26.1	6.59	95.9
7/7/2008	20:00:00	26.0	6.60	95.9
7/7/2008	20:15:00	25.9	6.62	95.9
7/7/2008	20:30:00	25.9	6.61	95.8
7/7/2008	20:45:00	25.8	6.62	95.7
7/7/2008	21:00:00	25.7	6.62	95.5
7/7/2008	21:15:00	25.6	6.65	95.8
7/7/2008	21:30:00	25.5	6.66	95.7
7/7/2008	21:45:00	25.3	6.67	95.6
7/7/2008	22:00:00	25.3	6.69	95.8
7/7/2008	22:15:00	25.2	6.70	95.8
7/7/2008	22:30:00	25.2	6.71	96.0
7/7/2008	22:45:00	25.2	6.72	96.0
7/7/2008	23:00:00	25.1	6.74	96.1
7/7/2008	23:15:00	25.0	6.73	95.9
7/7/2008	23:30:00	24.9	6.75	96.0
7/7/2008	23:45:00	24.8	6.77	96.1
7/8/2008	0:00:00	24.7	6.78	96.0
7/8/2008	0:15:00	24.6	6.78	95.9
7/8/2008	0:30:00	24.6	6.79	95.9
7/8/2008	0:45:00	24.5	6.80	96.0
7/8/2008	1:00:00	24.4	6.83	96.3
7/8/2008	1:15:00	24.4	6.83	96.2
7/8/2008	1:30:00	24.3	6.85	96.3
7/8/2008	1:45:00	24.3	6.87	96.5
7/8/2008	2:00:00	24.2	6.88	96.6
7/8/2008	2:15:00	24.2	6.90	96.7
7/8/2008	2:30:00	24.1	6.91	96.7
7/8/2008	2:45:00	24.0	6.91	96.6
7/8/2008	3:00:00	23.9	6.92	96.6
7/8/2008	3:15:00	23.8	6.93	96.6
7/8/2008	3:30:00	23.8	6.95	96.7
7/8/2008	3:45:00	23.7	6.96	96.7
7/8/2008	4:00:00	23.6	6.97	96.8
7/8/2008	4:15:00	23.6	6.97	96.6
7/8/2008	4:30:00	23.5	6.98	96.7
7/8/2008	4:45:00	23.4	6.99	96.7
7/8/2008	5:00:00	23.4	7.00	96.7
7/8/2008	5:15:00	23.3	7.01	96.7

Table 5.81. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	5:30:00	23.2	7.03	96.8
7/8/2008	5:45:00	23.2	7.03	96.7
7/8/2008	6:00:00	23.1	7.05	96.8
7/8/2008	6:15:00	23.1	7.06	97.0
7/8/2008	6:30:00	23.0	7.07	97.0
7/8/2008	6:45:00	23.0	7.08	97.1
7/8/2008	7:00:00	22.9	7.10	97.2
7/8/2008	7:15:00	22.9	7.12	97.4
7/8/2008	7:30:00	22.9	7.13	97.6
7/8/2008	7:45:00	22.9	7.17	98.0
7/8/2008	8:00:00	22.9	7.21	98.6
7/8/2008	8:15:00	22.9	7.24	99.0
7/8/2008	8:30:00	22.9	7.28	99.5
7/8/2008	8:45:00	22.9	7.31	100.0
7/8/2008	9:00:00	22.9	7.35	100.5
7/8/2008	9:15:00	22.9	7.37	100.8
7/8/2008	9:30:00	22.9	7.40	101.2
7/8/2008	9:45:00	22.9	7.41	101.4
7/8/2008	10:00:00	22.9	7.44	101.9
7/8/2008	10:15:00	22.9	7.48	102.5
7/8/2008	10:30:00	23.0	7.52	103.0
7/8/2008	10:45:00	23.0	7.56	103.7
7/8/2008	11:00:00	23.1	7.60	104.3
7/8/2008	11:15:00	23.2	7.65	105.2
7/8/2008	11:30:00	23.3	7.69	106.0
7/8/2008	11:45:00	23.4	7.73	106.8
7/8/2008	12:00:00	23.5	7.75	107.2
7/8/2008	12:15:00	23.6	7.79	108.0
7/8/2008	12:30:00	23.7	7.82	108.7
7/8/2008	12:45:00	23.8	7.86	109.4
7/8/2008	13:00:00	23.9	7.87	109.9
7/8/2008	13:15:00	24.1	7.90	110.6
7/8/2008	13:30:00	24.3	7.94	111.6
7/8/2008	13:45:00	24.5	7.97	112.5
7/8/2008	14:00:00	24.7	7.99	113.3
7/8/2008	14:15:00	24.9	8.01	114.0
7/8/2008	14:30:00	25.2	8.04	114.9
7/8/2008	14:45:00	25.5	8.09	116.2
7/8/2008	15:00:00	25.7	8.10	117.0
7/8/2008	15:15:00	25.8	8.10	117.1
7/8/2008	15:30:00	25.9	8.12	117.6
7/8/2008	15:45:00	25.9	8.12	117.7
7/8/2008	16:00:00	26.0	8.11	117.7
7/8/2008	16:15:00	26.0	8.07	117.1
7/8/2008	16:30:00	25.9	8.01	116.0

Table 5.81. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	16:45:00	25.7	7.94	114.6
7/8/2008	17:00:00	25.7	7.87	113.5
7/8/2008	17:15:00	25.7	7.82	112.9
7/8/2008	17:30:00	25.7	7.79	112.6
7/8/2008	17:45:00	25.8	7.76	112.3
7/8/2008	18:00:00	25.9	7.72	111.8
7/8/2008	18:15:00	25.9	7.66	111.0
7/8/2008	18:30:00	26.0	7.59	110.2
7/8/2008	18:45:00	26.0	7.53	109.3
7/8/2008	19:00:00	25.9	7.47	108.3
7/8/2008	19:15:00	25.8	7.41	107.2
7/8/2008	19:30:00	25.7	7.35	106.1
7/8/2008	19:45:00	25.6	7.29	105.1
7/8/2008	20:00:00	25.5	7.24	104.1
7/8/2008	20:15:00	25.4	7.20	103.2
7/8/2008	20:30:00	25.2	7.17	102.5
7/8/2008	20:45:00	25.0	7.14	101.8
7/8/2008	21:00:00	24.9	7.12	101.2
7/8/2008	21:15:00	24.7	7.11	100.8
7/8/2008	21:30:00	24.6	7.09	100.3
7/8/2008	21:45:00	24.5	7.10	100.2
7/8/2008	22:00:00	24.4	7.09	100.0
7/8/2008	22:15:00	24.4	7.10	99.9
7/8/2008	22:30:00	24.4	7.09	99.8
7/8/2008	22:45:00	24.3	7.09	99.7
7/8/2008	23:00:00	24.3	7.09	99.6
7/8/2008	23:15:00	24.2	7.08	99.4
7/8/2008	23:30:00	24.2	7.08	99.3
7/8/2008	23:45:00	24.2	7.08	99.2
7/9/2008	0:00:00	24.1	7.08	99.3
7/9/2008	0:15:00	24.1	7.08	99.2
7/9/2008	0:30:00	24.1	7.09	99.2
7/9/2008	0:45:00	24.0	7.08	99.1
7/9/2008	1:00:00	24.0	7.09	99.1
7/9/2008	1:15:00	23.9	7.10	99.1
7/9/2008	1:30:00	23.8	7.10	99.0
7/9/2008	1:45:00	23.8	7.11	99.0
7/9/2008	2:00:00	23.7	7.12	98.9
7/9/2008	2:15:00	23.6	7.12	98.8
7/9/2008	2:30:00	23.5	7.13	98.7
7/9/2008	2:45:00	23.4	7.14	98.6
7/9/2008	3:00:00	23.3	7.15	98.6
7/9/2008	3:15:00	23.3	7.15	98.5
7/9/2008	3:30:00	23.2	7.15	98.5
7/9/2008	3:45:00	23.2	7.16	98.4

Table 5.81. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	4:00:00	23.1	7.16	98.4
7/9/2008	4:15:00	23.0	7.16	98.3
7/9/2008	4:30:00	23.0	7.17	98.3
7/9/2008	4:45:00	22.9	7.17	98.3
7/9/2008	5:00:00	22.9	7.17	98.2
7/9/2008	5:15:00	22.9	7.18	98.2
7/9/2008	5:30:00	22.8	7.18	98.2
7/9/2008	5:45:00	22.8	7.19	98.1
7/9/2008	6:00:00	22.8	7.19	98.1
7/9/2008	6:15:00	22.7	7.20	98.1
7/9/2008	6:30:00	22.6	7.20	98.1
7/9/2008	6:45:00	22.6	7.21	98.0
7/9/2008	7:00:00	22.5	7.23	98.1
7/9/2008	7:15:00	22.4	7.27	98.5
7/9/2008	7:30:00	22.4	7.29	98.7
7/9/2008	7:45:00	22.3	7.31	98.9
7/9/2008	8:00:00	22.3	7.34	99.2
7/9/2008	8:15:00	22.2	7.36	99.5
7/9/2008	8:30:00	22.2	7.38	99.7
7/9/2008	8:45:00	22.2	7.40	99.9
7/9/2008	9:00:00	22.2	7.42	100.1
7/9/2008	9:15:00	22.1	7.44	100.4
7/9/2008	9:30:00	22.1	7.47	100.7
7/9/2008	9:45:00	22.1	7.50	101.1
7/9/2008	10:00:00	22.2	7.52	101.5
7/9/2008	10:15:00	22.2	7.56	102.0
7/9/2008	10:30:00	22.2	7.59	102.4
7/9/2008	10:45:00	22.2	7.61	102.7
7/9/2008	11:00:00	22.2	7.63	103.1
7/9/2008	11:15:00	22.2	7.67	103.6
7/9/2008	11:30:00	22.3	7.70	104.1
7/9/2008	11:45:00	22.3	7.74	104.8
7/9/2008	12:00:00	22.4	7.77	105.3
7/9/2008	12:15:00	22.5	7.81	106.1
7/9/2008	12:30:00	22.6	7.84	106.7
7/9/2008	12:45:00	22.8	7.88	107.6
7/9/2008	13:00:00	22.9	7.90	108.2
7/9/2008	13:15:00	23.1	7.92	108.8
7/9/2008	13:30:00	23.2	7.95	109.4
7/9/2008	13:45:00	23.3	7.99	110.2
7/9/2008	14:00:00	23.5	8.02	111.0
7/9/2008	14:15:00	23.7	8.05	111.8
7/9/2008	14:30:00	23.8	8.05	112.1
7/9/2008	14:45:00	23.9	8.06	112.4
7/9/2008	15:00:00	23.9	8.07	112.6

Table 5.81. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	15:15:00	23.9	8.08	112.8
7/9/2008	15:30:00	23.9	8.09	112.8
7/9/2008	15:45:00	24.0	8.10	113.2
7/9/2008	16:00:00	24.1	8.11	113.4
7/9/2008	16:15:00	24.1	8.10	113.5
7/9/2008	16:30:00	24.2	8.08	113.4
7/9/2008	16:45:00	24.1	8.04	112.6
7/9/2008	17:00:00	24.0	7.98	111.6
7/9/2008	17:15:00	23.9	7.95	111.0
7/9/2008	17:30:00	23.9	7.91	110.4
7/9/2008	17:45:00	23.8	7.86	109.6
7/9/2008	18:00:00	23.9	7.82	109.0
7/9/2008	18:15:00	23.9	7.78	108.6
7/9/2008	18:30:00	23.9	7.75	108.1
7/9/2008	18:45:00	23.9	7.71	107.6
7/9/2008	19:00:00	23.9	7.70	107.3
7/9/2008	19:15:00	23.9	7.67	107.0
7/9/2008	19:30:00	23.9	7.63	106.5
7/9/2008	19:45:00	23.9	7.60	106.1
7/9/2008	20:00:00	24.0	7.56	105.6
7/9/2008	20:15:00	24.0	7.51	105.0
7/9/2008	20:30:00	24.0	7.46	104.3
7/9/2008	20:45:00	23.9	7.18	100.1
7/9/2008	21:00:00	23.5	6.69	92.6
7/9/2008	21:15:00	23.3	6.74	92.9
7/9/2008	21:30:00	23.1	6.75	92.7
7/9/2008	21:45:00	22.9	6.78	92.9
7/9/2008	22:00:00	22.8	6.84	93.5
7/9/2008	22:15:00	22.8	6.92	94.5
7/9/2008	22:30:00	22.8	6.99	95.4
7/9/2008	22:45:00	22.8	7.05	96.3
7/9/2008	23:00:00	22.9	7.09	97.0
7/9/2008	23:15:00	22.9	7.11	97.3
7/9/2008	23:30:00	23.0	7.13	97.6
7/9/2008	23:45:00	23.0	7.13	97.8
7/10/2008	0:00:00	23.1	7.14	98.0
7/10/2008	0:15:00	23.1	7.14	98.2
7/10/2008	0:30:00	23.2	7.13	98.1
7/10/2008	0:45:00	23.2	7.14	98.3
7/10/2008	1:00:00	23.2	7.15	98.4
7/10/2008	1:15:00	23.3	7.15	98.6
7/10/2008	1:30:00	23.3	7.16	98.6
7/10/2008	1:45:00	23.3	7.16	98.7
7/10/2008	2:00:00	23.3	7.17	98.8
7/10/2008	2:15:00	23.2	7.18	98.8

Table 5.81. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/10/2008	2:30:00	23.2	7.18	98.8
7/10/2008	2:45:00	23.1	7.18	98.8
7/10/2008	3:00:00	23.1	7.19	98.8
7/10/2008	3:15:00	23.0	7.19	98.7
7/10/2008	3:30:00	23.0	7.18	98.5
7/10/2008	3:45:00	22.9	7.13	97.7
7/10/2008	4:00:00	22.8	7.07	96.6
7/10/2008	4:15:00	22.8	7.02	95.8
7/10/2008	4:30:00	22.7	6.99	95.2
7/10/2008	4:45:00	22.6	6.98	94.9
7/10/2008	5:00:00	22.5	6.98	94.8
7/10/2008	5:15:00	22.4	6.99	94.8
7/10/2008	5:30:00	22.4	7.00	94.9
7/10/2008	5:45:00	22.3	7.02	95.1
7/10/2008	6:00:00	22.3	7.04	95.3
7/10/2008	6:15:00	22.3	7.06	95.4
7/10/2008	6:30:00	22.2	7.09	95.8
7/10/2008	6:45:00	22.2	7.11	96.0
7/10/2008	7:00:00	22.2	7.14	96.3
7/10/2008	7:15:00	22.2	7.16	96.5
7/10/2008	7:30:00	22.1	7.18	96.9
7/10/2008	7:45:00	22.1	7.20	97.1
7/10/2008	8:00:00	22.1	7.24	97.6
7/10/2008	8:15:00	22.1	7.27	98.0
7/10/2008	8:30:00	22.1	7.30	98.4
7/10/2008	8:45:00	22.1	7.34	99.0
7/10/2008	9:00:00	22.1	7.38	99.5
7/10/2008	9:15:00	22.2	7.42	100.2
7/10/2008	9:30:00	22.2	7.47	100.9
7/10/2008	9:45:00	22.2	7.51	101.4
7/10/2008	10:00:00	22.3	7.54	102.0
7/10/2008	10:15:00	22.3	7.58	102.4
7/10/2008	10:30:00	22.3	7.62	103.0
7/10/2008	10:45:00	22.3	7.65	103.5
7/10/2008	11:00:00	22.4	7.69	104.1
7/10/2008	11:15:00	22.4	7.72	104.6
7/10/2008	11:30:00	22.4	7.74	104.9
7/10/2008	11:45:00	22.4	7.76	105.2
7/10/2008	12:00:00	22.4	7.79	105.6
7/10/2008	12:15:00	22.4	7.80	105.8
7/10/2008	12:30:00	22.4	7.82	106.1
7/10/2008	12:45:00	22.5	7.84	106.4
7/10/2008	13:00:00	22.5	7.86	106.7
7/10/2008	13:15:00	22.5	7.87	107.0
7/10/2008	13:30:00	22.5	7.89	107.2

Table 5.81. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/10/2008	13:45:00	22.5	7.91	107.4
7/10/2008	14:00:00	22.6	7.94	107.9
7/10/2008	14:15:00	22.6	7.97	108.5
7/10/2008	14:30:00	22.7	8.02	109.3
7/10/2008	14:45:00	22.8	8.05	110.0
7/10/2008	15:00:00	22.8	8.09	110.6
7/10/2008	15:15:00	22.9	8.11	110.9
7/10/2008	15:30:00	22.9	8.12	111.1
7/10/2008	15:45:00	22.9	8.13	111.3
7/10/2008	16:00:00	22.9	8.14	111.4
7/10/2008	16:15:00	22.9	8.15	111.5
7/10/2008	16:30:00	22.9	8.16	111.8
7/10/2008	16:45:00	22.9	8.17	111.9
7/10/2008	17:00:00	22.9	8.19	112.2
7/10/2008	17:15:00	23.0	8.21	112.4
7/10/2008	17:30:00	23.0	8.24	112.9
7/10/2008	17:45:00	23.0	8.26	113.2
7/10/2008	18:00:00	23.0	8.27	113.5
7/10/2008	18:15:00	23.1	8.29	113.8
7/10/2008	18:30:00	23.1	8.29	114.0
7/10/2008	18:45:00	23.1	8.29	114.0
7/10/2008	19:00:00	23.1	8.28	113.9
7/10/2008	19:15:00	23.1	8.25	113.4
7/10/2008	19:30:00	23.1	8.20	112.7
7/10/2008	19:45:00	23.1	8.15	112.0
7/10/2008	20:00:00	23.1	8.09	111.2
7/10/2008	20:15:00	23.1	8.03	110.3
7/10/2008	20:30:00	23.0	7.98	109.4
7/10/2008	20:45:00	23.0	7.92	108.6
7/10/2008	21:00:00	23.0	7.88	107.9
7/10/2008	21:15:00	22.9	7.84	107.3
7/10/2008	21:30:00	22.9	7.80	106.7
7/10/2008	21:45:00	22.9	7.76	106.2
7/10/2008	22:00:00	22.8	7.73	105.7
7/10/2008	22:15:00	22.8	7.70	105.2
7/10/2008	22:30:00	22.8	7.67	104.7
7/10/2008	22:45:00	22.7	7.64	104.2
7/10/2008	23:00:00	22.7	7.61	103.7
7/10/2008	23:15:00	22.6	7.58	103.3
7/10/2008	23:30:00	22.6	7.56	102.9
7/10/2008	23:45:00	22.6	7.54	102.5
7/11/2008	0:00:00	22.5	7.52	102.1
7/11/2008	0:15:00	22.5	7.50	101.8
7/11/2008	0:30:00	22.4	7.49	101.5
7/11/2008	0:45:00	22.4	7.47	101.3

Table 5.81. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/11/2008	1:00:00	22.4	7.46	101.0
7/11/2008	1:15:00	22.3	7.44	100.8
7/11/2008	1:30:00	22.3	7.43	100.6
7/11/2008	1:45:00	22.3	7.42	100.4
7/11/2008	2:00:00	22.2	7.42	100.2
7/11/2008	2:15:00	22.2	7.41	100.0
7/11/2008	2:30:00	22.2	7.40	99.9
7/11/2008	2:45:00	22.1	7.40	99.8
7/11/2008	3:00:00	22.1	7.39	99.6
7/11/2008	3:15:00	22.1	7.38	99.5
7/11/2008	3:30:00	22.1	7.38	99.4
7/11/2008	3:45:00	22.1	7.38	99.3
7/11/2008	4:00:00	22.1	7.38	99.3
7/11/2008	4:15:00	22.0	7.37	99.2
7/11/2008	4:30:00	22.0	7.37	99.1
7/11/2008	4:45:00	21.9	7.37	99.0
7/11/2008	5:00:00	21.9	7.37	99.0
7/11/2008	5:15:00	21.9	7.36	98.7
7/11/2008	5:30:00	21.8	7.24	97.1
7/11/2008	5:45:00	21.8	7.28	97.5
7/11/2008	6:00:00	21.8	7.32	98.1
7/11/2008	6:15:00	21.8	7.29	97.7
7/11/2008	6:30:00	21.8	7.22	96.7
7/11/2008	6:45:00	21.8	7.33	98.2
7/11/2008	7:00:00	21.8	7.35	98.5
7/11/2008	7:15:00	21.8	7.34	98.2
7/11/2008	7:30:00	21.8	7.34	98.2
7/11/2008	7:45:00	21.7	7.26	97.2
7/11/2008	8:00:00	21.7	6.84	91.5
7/11/2008	8:15:00	21.7	7.45	99.6
7/11/2008	8:30:00	21.7	7.33	98.0
7/11/2008	8:45:00	21.7	7.18	96.0
7/11/2008	9:00:00	21.7	6.59	88.1

Table 5.82. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

Serial Number	**36755**	**Name**	**:**	**Hermes**
Log	**File**	**Name**	**:**	**SITE6-7-7-08**
Setup	**Date**	**(MMDDYY)**	**:**	**7/6/2008**
Setup	**Time**	**(HHMMSS)**	**:**	**202733**
Starting	**Date**	**(MMDDYY)**	**:**	**7/7/2008**
Starting	**Time**	**(HHMMSS)**	**:**	**100000**
Stopping	**Date**	**(MMDDYY)**	**:**	**7/11/2008**
Stopping	**Time**	**(HHMMSS)**	**:**	**100000**
Measurement	**Interval**	**(MMSS)**	**:**	**1500**
Sensor	**warmup**	**(MMSS)**	**:**	**200**
Circulator	**warmup**	**(MMSS)**	**:**	**200**

Date (MMDDYYYY)	Time (HHMMSS)	Temp (C)	SpCond (uS/cm)	pH (Std Units)	DO (mg/L)	DO Saturation (%)
7/7/2008	10:00:00	24.3	369	8.02	6.49	91.0
7/7/2008	10:15:00	24.4	371	8.03	6.49	91.0
7/7/2008	10:30:00	24.5	372	8.04	6.59	92.6
7/7/2008	10:45:00	24.6	373	8.05	6.59	92.9
7/7/2008	11:00:00	24.7	374	8.05	6.66	94.0
7/7/2008	11:15:00	24.8	374	8.06	6.66	94.1
7/7/2008	11:30:00	24.9	376	8.07	6.76	95.7
7/7/2008	11:45:00	24.9	376	8.07	6.77	95.9
7/7/2008	12:00:00	25.0	378	8.07	6.71	95.1
7/7/2008	12:15:00	25.1	379	8.08	6.58	93.5
7/7/2008	12:30:00	25.2	381	8.09	6.35	90.4
7/7/2008	12:45:00	25.3	382	8.09	5.82	83.1
7/7/2008	13:00:00	25.4	381	8.10	5.37	76.7
7/7/2008	13:15:00	25.4	381	8.10	4.77	68.3
7/7/2008	13:30:00	25.5	383	8.11	4.60	65.9
7/7/2008	13:45:00	25.6	382	8.11	4.46	64.1
7/7/2008	14:00:00	25.8	381	8.12	4.38	63.1
7/7/2008	14:15:00	26.0	382	8.12	4.29	62.0
7/7/2008	14:30:00	26.1	380	8.13	4.20	60.9
7/7/2008	14:45:00	26.4	379	8.13	4.15	60.4
7/7/2008	15:00:00	26.6	383	8.14	4.14	60.5
7/7/2008	15:15:00	26.8	387	8.14	4.02	58.9
7/7/2008	15:30:00	26.8	385	8.15	4.03	59.1
7/7/2008	15:45:00	26.8	388	8.13	3.82	56.1
7/7/2008	16:00:00	26.7	387	8.10	3.67	53.7
7/7/2008	16:15:00	26.7	389	8.06	3.53	51.7
7/7/2008	16:30:00	26.6	401	8.02	3.34*	48.7
7/7/2008	16:45:00	26.5	409	7.99	3.16	46.2
7/7/2008	17:00:00	26.5	417	7.97	3.05	44.5
7/7/2008	17:15:00	26.4	415	7.96	2.84	41.4
7/7/2008	17:30:00	26.4	420	7.94	2.78	40.5

Table 5.82. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/7/2008	17:45:00	26.4	424	7.94	2.62	38.2
7/7/2008	18:00:00	26.3	421	7.94	2.37	34.4
7/7/2008	18:15:00	26.2	417	7.94	2.17	31.5
7/7/2008	18:30:00	26.1	420	7.93	1.85	26.8
7/7/2008	18:45:00	26.0	419	7.93	1.62	23.5
7/7/2008	19:00:00	26.0	426	7.93	1.29	18.7
7/7/2008	19:15:00	26.0	420	7.93	0.95	13.7
7/7/2008	19:30:00	26.0	421	7.93	0.78	11.3
7/7/2008	19:45:00	25.9	416	7.92	0.69	9.9
7/7/2008	20:00:00	25.9	421	7.93	0.60	8.6
7/7/2008	20:15:00	25.8	413	7.92	0.53	7.7
7/7/2008	20:30:00	25.7	407	7.93	0.47	6.8
7/7/2008	20:45:00	25.6	405	7.92	0.40	5.7
7/7/2008	21:00:00	25.5	393	7.92	0.35	5.0
7/7/2008	21:15:00	25.4	410	7.93	0.28	4.1
7/7/2008	21:30:00	25.3	409	7.93	0.25	3.6
7/7/2008	21:45:00	25.2	402	7.94	0.22	3.1
7/7/2008	22:00:00	25.1	403	7.93	0.19	2.7
7/7/2008	22:15:00	25.1	405	7.94	0.20	2.8
7/7/2008	22:30:00	25.1	397	7.94	0.18	2.5
7/7/2008	22:45:00	25.0	407	7.94	0.15	2.1
7/7/2008	23:00:00	24.9	402	7.95	0.14	2.0
7/7/2008	23:15:00	24.9	392	7.95	0.13	1.9
7/7/2008	23:30:00	24.7	390	7.96	0.13	1.8
7/7/2008	23:45:00	24.6	390	7.95	0.14	2.0
7/8/2008	0:00:00	24.5	383	7.96	0.14	1.9
7/8/2008	0:15:00	24.5	379	7.96	0.12	1.7
7/8/2008	0:30:00	24.4	374	7.96	0.11	1.5
7/8/2008	0:45:00	24.3	373	7.97	0.12	1.7
7/8/2008	1:00:00	24.3	367	7.98	0.11	1.5
7/8/2008	1:15:00	24.2	352	7.98	0.11	1.6
7/8/2008	1:30:00	24.2	339	7.98	0.13	1.8
7/8/2008	1:45:00	24.1	356	7.97	0.14	1.9
7/8/2008	2:00:00	24.1	358	7.97	0.12	1.7
7/8/2008	2:15:00	24.0	352	7.98	0.12	1.7
7/8/2008	2:30:00	23.9	359	7.98	0.13	1.8
7/8/2008	2:45:00	23.9	347	7.99	0.12	1.7
7/8/2008	3:00:00	23.8	331	7.99	0.13	1.8
7/8/2008	3:15:00	23.7	326	7.99	0.14	1.9
7/8/2008	3:30:00	23.6	333	7.97	0.12	1.6
7/8/2008	3:45:00	23.6	366	7.95	0.12	1.7
7/8/2008	4:00:00	23.5	358	7.94	0.12	1.6
7/8/2008	4:15:00	23.4	347	7.93	0.13	1.8
7/8/2008	4:30:00	23.4	347	7.92	0.13	1.8
7/8/2008	4:45:00	23.3	338	7.90	0.13	1.8

Table 5.82. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	5:00:00	23.2	361	7.89	0.13	1.8
7/8/2008	5:15:00	23.1	363	7.88	0.12	1.6
7/8/2008	5:30:00	23.1	347	7.86	0.14	1.9
7/8/2008	5:45:00	23.0	354	7.84	0.12	1.6
7/8/2008	6:00:00	23.0	366	7.83	0.12	1.7
7/8/2008	6:15:00	22.9	333	7.82	0.14	1.9
7/8/2008	6:30:00	22.9	349	7.80	0.15	2.0
7/8/2008	6:45:00	22.8	359	7.81	0.12	1.6
7/8/2008	7:00:00	22.8	353	7.81	0.13	1.7
7/8/2008	7:15:00	22.8	345	7.81	0.14	1.9
7/8/2008	7:30:00	22.7	327	7.79	0.12	1.7
7/8/2008	7:45:00	22.7	324	7.78	0.14	1.9
7/8/2008	8:00:00	22.7	318	7.77	0.14	1.9
7/8/2008	8:15:00	22.7	304	7.78	0.13	1.7
7/8/2008	8:30:00	22.7	302	7.74	0.14	1.9
7/8/2008	8:45:00	22.7	279	7.81	0.13	1.7
7/8/2008	9:00:00	22.7	266	7.84	0.11	1.5
7/8/2008	9:15:00	22.7	264	7.86	0.12	1.6
7/8/2008	9:30:00	22.7	269	7.89	0.13	1.7
7/8/2008	9:45:00	22.7	269	7.93	0.11	1.5
7/8/2008	10:00:00	22.7	267	7.96	0.13	1.8
7/8/2008	10:15:00	22.8	267	7.97	0.13	1.8
7/8/2008	10:30:00	22.8	266	7.98	0.11	1.5
7/8/2008	10:45:00	22.8	289	8.01	0.13	1.8
7/8/2008	11:00:00	22.9	276	8.00	0.11	1.5
7/8/2008	11:15:00	23.0	271	7.99	0.12	1.6
7/8/2008	11:30:00	23.1	282	8.02	0.13	1.8
7/8/2008	11:45:00	23.2	293	8.03	0.12	1.6
7/8/2008	12:00:00	23.3	308	8.03	0.12	1.7
7/8/2008	12:15:00	23.4	315	8.01	0.14	1.9
7/8/2008	12:30:00	23.5	330	8.00	0.12	1.7
7/8/2008	12:45:00	23.6	312	8.01	0.12	1.6
7/8/2008	13:00:00	23.8	329	8.00	0.14	2.0
7/8/2008	13:15:00	23.9	317	8.02	0.12	1.6
7/8/2008	13:30:00	24.1	331	8.02	0.13	1.7
7/8/2008	13:45:00	24.3	333	8.04	0.14	1.9
7/8/2008	14:00:00	24.5	314	8.04	0.14	2.0
7/8/2008	14:15:00	24.8	313	8.03	0.12	1.7
7/8/2008	14:30:00	25.0	327	8.04	0.13	1.9
7/8/2008	14:45:00	25.3	326	8.04	0.12	1.7
7/8/2008	15:00:00	25.5	317	8.05	0.13	1.9
7/8/2008	15:15:00	25.6	300	8.04	0.13	1.8
7/8/2008	15:30:00	25.7	303	8.05	0.12	1.7
7/8/2008	15:45:00	25.7	299	8.06	0.13	1.9
7/8/2008	16:00:00	25.8	301	8.08	0.12	1.8

Table 5.82. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/8/2008	16:15:00	25.8	297	8.09	0.12	1.7
7/8/2008	16:30:00	25.7	301	8.09	0.11	1.6
7/8/2008	16:45:00	25.6	301	8.09	0.14	2.0
7/8/2008	17:00:00	25.5	304	8.09	0.13	1.9
7/8/2008	17:15:00	25.5	311	8.09	0.11	1.6
7/8/2008	17:30:00	25.6	315	8.08	0.13	1.9
7/8/2008	17:45:00	25.6	314	8.08	0.14	2.0
7/8/2008	18:00:00	25.7	317	8.08	0.13	1.9
7/8/2008	18:15:00	25.8	318	8.07	0.12	1.8
7/8/2008	18:30:00	25.8	320	8.06	0.14	2.0
7/8/2008	18:45:00	25.8	328	8.05	0.11	1.7
7/8/2008	19:00:00	25.8	325	8.05	0.14	2.0
7/8/2008	19:15:00	25.7	328	8.04	0.14	2.0
7/8/2008	19:30:00	25.6	317	8.03	0.12	1.7
7/8/2008	19:45:00	25.5	318	8.01	0.12	1.8
7/8/2008	20:00:00	25.4	314	8.01	0.14	2.0
7/8/2008	20:15:00	25.2	316	7.99	0.12	1.8
7/8/2008	20:30:00	25.1	317	8.00	0.12	1.7
7/8/2008	20:45:00	24.9	323	7.99	0.13	1.8
7/8/2008	21:00:00	24.7	321	7.97	0.12	1.7
7/8/2008	21:15:00	24.6	314	7.96	0.14	1.9
7/8/2008	21:30:00	24.5	314	7.95	0.12	1.6
7/8/2008	21:45:00	24.4	313	7.94	0.12	1.7
7/8/2008	22:00:00	24.3	316	7.94	0.12	1.7
7/8/2008	22:15:00	24.2	315	7.93	0.13	1.8
7/8/2008	22:30:00	24.2	315	7.93	0.13	1.9
7/8/2008	22:45:00	24.2	320	7.92	0.14	2.0
7/8/2008	23:00:00	24.1	320	7.90	0.13	1.9
7/8/2008	23:15:00	24.1	321	7.90	0.13	1.8
7/8/2008	23:30:00	24.0	324	7.90	0.14	2.0
7/8/2008	23:45:00	24.0	326	7.89	0.14	2.0
7/9/2008	0:00:00	24.0	330	7.88	0.12	1.6
7/9/2008	0:15:00	24.0	334	7.86	0.12	1.7
7/9/2008	0:30:00	23.9	338	7.85	0.12	1.6
7/9/2008	0:45:00	23.9	341	7.86	0.14	1.9
7/9/2008	1:00:00	23.8	325	7.84	0.14	1.9
7/9/2008	1:15:00	23.8	330	7.83	0.13	1.9
7/9/2008	1:30:00	23.7	312	7.84	0.13	1.8
7/9/2008	1:45:00	23.6	315	7.83	0.12	1.7
7/9/2008	2:00:00	23.5	317	7.82	0.14	2.0
7/9/2008	2:15:00	23.4	316	7.83	0.12	1.7
7/9/2008	2:30:00	23.3	318	7.83	0.13	1.7
7/9/2008	2:45:00	23.3	318	7.82	0.12	1.7
7/9/2008	3:00:00	23.2	314	7.83	0.12	1.7
7/9/2008	3:15:00	23.1	313	7.81	0.13	1.7

Table 5.82. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	3:30:00	23.1	316	7.81	0.13	1.8
7/9/2008	3:45:00	23.0	319	7.82	0.12	1.6
7/9/2008	4:00:00	22.9	320	7.82	0.12	1.6
7/9/2008	4:15:00	22.9	321	7.80	0.12	1.7
7/9/2008	4:30:00	22.8	319	7.78	0.13	1.7
7/9/2008	4:45:00	22.8	321	7.77	0.12	1.6
7/9/2008	5:00:00	22.7	322	7.78	0.14	2.0
7/9/2008	5:15:00	22.7	323	7.76	0.14	1.8
7/9/2008	5:30:00	22.7	323	7.73	0.14	1.9
7/9/2008	5:45:00	22.6	321	7.72	0.13	1.8
7/9/2008	6:00:00	22.6	321	7.71	0.13	1.7
7/9/2008	6:15:00	22.5	320	7.71	0.14	2.0
7/9/2008	6:30:00	22.5	319	7.71	0.14	1.9
7/9/2008	6:45:00	22.4	318	7.71	0.13	1.7
7/9/2008	7:00:00	22.3	318	7.71	0.15	2.0
7/9/2008	7:15:00	22.3	317	7.70	0.13	1.7
7/9/2008	7:30:00	22.2	316	7.70	0.13	1.7
7/9/2008	7:45:00	22.2	315	7.69	0.13	1.7
7/9/2008	8:00:00	22.1	315	7.69	0.14	1.9
7/9/2008	8:15:00	22.1	190	7.69	0.10	1.4
7/9/2008	8:30:00	22.1	246	7.71	0.11	1.4
7/9/2008	8:45:00	22.0	244	7.70	0.10	1.4
7/9/2008	9:00:00	22.0	230	7.70	0.09	1.2
7/9/2008	9:15:00	22.0	235	7.71	0.09	1.3
7/9/2008	9:30:00	22.0	222	7.73	0.09	1.2
7/9/2008	9:45:00	22.0	227	7.74	0.08	1.0
7/9/2008	10:00:00	22.0	229	7.73	0.08	1.1
7/9/2008	10:15:00	22.0	182	7.72	0.06	0.8
7/9/2008	10:30:00	22.0	210	7.70	0.11	1.4
7/9/2008	10:45:00	22.0	211	7.70	0.10	1.4
7/9/2008	11:00:00	22.1	212	7.71	0.10	1.4
7/9/2008	11:15:00	22.1	217	7.72	0.13	1.7
7/9/2008	11:30:00	22.1	250	7.71	0.13	1.8
7/9/2008	11:45:00	22.2	265	7.69	0.11	1.5
7/9/2008	12:00:00	22.2	258	7.70	0.14	1.8
7/9/2008	12:15:00	22.3	257	7.69	0.14	1.8
7/9/2008	12:30:00	22.5	264	7.69	0.11	1.5
7/9/2008	12:45:00	22.6	257	7.69	0.12	1.6
7/9/2008	13:00:00	22.8	261	7.67	0.13	1.8
7/9/2008	13:15:00	22.9	272	7.68	0.12	1.6
7/9/2008	13:30:00	23.0	282	7.67	0.14	1.9
7/9/2008	13:45:00	23.2	252	7.66	0.13	1.7
7/9/2008	14:00:00	23.3	276	7.66	0.12	1.6
7/9/2008	14:15:00	23.5	274	7.66	0.14	1.9
7/9/2008	14:30:00	23.6	268	7.66	0.12	1.6

Table 5.82. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/9/2008	14:45:00	23.7	273	7.67	0.13	1.8
7/9/2008	15:00:00	23.7	273	7.68	0.13	1.8
7/9/2008	15:15:00	23.7	291	7.68	0.12	1.7
7/9/2008	15:30:00	23.7	285	7.69	0.12	1.7
7/9/2008	15:45:00	23.8	287	7.68	0.13	1.9
7/9/2008	16:00:00	23.9	254	7.69	0.13	1.7
7/9/2008	16:15:00	24.0	261	7.69	0.11	1.6
7/9/2008	16:30:00	24.0	255	7.68	0.11	1.6
7/9/2008	16:45:00	24.0	276	7.67	0.13	1.7
7/9/2008	17:00:00	23.8	289	7.66	0.11	1.5
7/9/2008	17:15:00	23.8	268	7.67	0.13	1.7
7/9/2008	17:30:00	23.7	252	7.68	0.14	2.0
7/9/2008	17:45:00	23.7	244	7.68	0.11	1.6
7/9/2008	18:00:00	23.7	259	7.68	0.13	1.8
7/9/2008	18:15:00	23.8	275	7.69	0.12	1.7
7/9/2008	18:30:00	23.8	280	7.69	0.12	1.7
7/9/2008	18:45:00	23.7	257	7.69	0.13	1.8
7/9/2008	19:00:00	23.7	251	7.68	0.10	1.4
7/9/2008	19:15:00	23.7	257	7.69	0.11	1.5
7/9/2008	19:30:00	23.8	249	7.70	0.12	1.7
7/9/2008	19:45:00	23.8	255	7.70	0.11	1.5
7/9/2008	20:00:00	23.8	266	7.69	0.11	1.6
7/9/2008	20:15:00	23.8	276	7.68	0.14	1.9
7/9/2008	20:30:00	23.8	282	7.66	0.13	1.8
7/9/2008	20:45:00	23.7	269	7.65	0.12	1.6
7/9/2008	21:00:00	23.4	263	7.66	0.12	1.7
7/9/2008	21:15:00	23.1	253	7.69	0.10	1.4
7/9/2008	21:30:00	22.9	171	7.72	0.07	0.9
7/9/2008	21:45:00	22.8	180	7.72	0.08	1.1
7/9/2008	22:00:00	22.7	188	7.71	0.08	1.0
7/9/2008	22:15:00	22.6	167	7.71	0.06	0.8
7/9/2008	22:30:00	22.6	174	7.72	0.08	1.0
7/9/2008	22:45:00	22.6	181	7.71	0.03	0.5
7/9/2008	23:00:00	22.7	183	7.72	0.09	1.2
7/9/2008	23:15:00	22.7	185	7.73	0.09	1.2
7/9/2008	23:30:00	22.8	183	7.73	0.07	0.9
7/9/2008	23:45:00	22.8	184	7.73	0.09	1.2
7/10/2008	0:00:00	22.9	187	7.73	0.09	1.2
7/10/2008	0:15:00	22.9	185	7.73	0.07	0.9
7/10/2008	0:30:00	23.0	186	7.74	0.07	1.0
7/10/2008	0:45:00	23.0	188	7.74	0.07	0.9
7/10/2008	1:00:00	23.1	188	7.73	0.07	0.9
7/10/2008	1:15:00	23.1	192	7.72	0.08	1.1
7/10/2008	1:30:00	23.1	190	7.69	0.08	1.1
7/10/2008	1:45:00	23.1	195	7.67	0.08	1.1

Table 5.82. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/10/2008	2:00:00	23.1	201	7.66	0.08	1.1
7/10/2008	2:15:00	23.1	181	7.66	0.08	1.0
7/10/2008	2:30:00	23.0	207	7.67	0.08	1.2
7/10/2008	2:45:00	23.0	196	7.67	0.09	1.2
7/10/2008	3:00:00	22.9	199	7.65	0.06	0.9
7/10/2008	3:15:00	22.9	202	7.65	0.06	0.9
7/10/2008	3:30:00	22.8	202	7.65	0.08	1.1
7/10/2008	3:45:00	22.8	202	7.67	0.09	1.2
7/10/2008	4:00:00	22.7	203	7.67	0.09	1.2
7/10/2008	4:15:00	22.6	205	7.67	0.09	1.2
7/10/2008	4:30:00	22.5	204	7.68	0.07	1.0
7/10/2008	4:45:00	22.4	204	7.68	0.11	1.4
7/10/2008	5:00:00	22.4	210	7.70	0.10	1.3
7/10/2008	5:15:00	22.3	210	7.69	0.13	1.8
7/10/2008	5:30:00	22.2	206	7.66	0.08	1.0
7/10/2008	5:45:00	22.2	183	7.65	0.10	1.3
7/10/2008	6:00:00	22.2	197	7.67	0.08	1.1
7/10/2008	6:15:00	22.1	194	7.68	0.09	1.2
7/10/2008	6:30:00	22.1	197	7.68	0.08	1.1
7/10/2008	6:45:00	22.1	200	7.67	0.11	1.5
7/10/2008	7:00:00	22.0	201	7.67	0.11	1.4
7/10/2008	7:15:00	22.0	199	7.68	0.10	1.4
7/10/2008	7:30:00	22.0	198	7.68	0.11	1.4
7/10/2008	7:45:00	22.0	200	7.70	0.10	1.4
7/10/2008	8:00:00	22.0	200	7.70	0.09	1.2
7/10/2008	8:15:00	22.0	201	7.69	0.13	1.8
7/10/2008	8:30:00	22.0	201	7.69	0.10	1.3
7/10/2008	8:45:00	22.0	202	7.69	0.09	1.2
7/10/2008	9:00:00	22.0	221	7.68	0.11	1.5
7/10/2008	9:15:00	22.0	207	7.67	0.09	1.2
7/10/2008	9:30:00	22.0	204	7.66	0.09	1.2
7/10/2008	9:45:00	22.1	218	7.66	0.10	1.3
7/10/2008	10:00:00	22.1	216	7.66	0.11	1.4
7/10/2008	10:15:00	22.1	215	7.66	0.10	1.4
7/10/2008	10:30:00	22.1	215	7.65	0.10	1.4
7/10/2008	10:45:00	22.2	214	7.64	0.10	1.4
7/10/2008	11:00:00	22.2	211	7.63	0.08	1.1
7/10/2008	11:15:00	22.2	218	7.63	0.08	1.1
7/10/2008	11:30:00	22.2	213	7.63	0.10	1.3
7/10/2008	11:45:00	22.2	213	7.62	0.08	1.0
7/10/2008	12:00:00	22.2	213	7.61	0.10	1.4
7/10/2008	12:15:00	22.3	210	7.62	0.10	1.4
7/10/2008	12:30:00	22.3	209	7.61	0.07	0.9
7/10/2008	12:45:00	22.3	209	7.60	0.10	1.4
7/10/2008	13:00:00	22.3	207	7.60	0.08	1.1

Table 5.82. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/10/2008	13:15:00	22.3	208	7.59	0.10	1.4
7/10/2008	13:30:00	22.4	206	7.60	0.10	1.3
7/10/2008	13:45:00	22.4	207	7.60	0.10	1.4
7/10/2008	14:00:00	22.4	204	7.60	0.10	1.4
7/10/2008	14:15:00	22.5	203	7.60	0.09	1.2
7/10/2008	14:30:00	22.5	203	7.59	0.08	1.1
7/10/2008	14:45:00	22.6	202	7.60	0.09	1.2
7/10/2008	15:00:00	22.7	200	7.60	0.10	1.4
7/10/2008	15:15:00	22.7	200	7.60	0.08	1.0
7/10/2008	15:30:00	22.7	200	7.60	0.10	1.4
7/10/2008	15:45:00	22.7	198	7.61	0.08	1.0
7/10/2008	16:00:00	22.7	198	7.61	0.09	1.3
7/10/2008	16:15:00	22.7	198	7.61	0.10	1.3
7/10/2008	16:30:00	22.7	196	7.60	0.08	1.0
7/10/2008	16:45:00	22.8	202	7.61	0.10	1.3
7/10/2008	17:00:00	22.8	200	7.61	0.09	1.2
7/10/2008	17:15:00	22.8	200	7.61	0.09	1.2
7/10/2008	17:30:00	22.8	199	7.61	0.10	1.3
7/10/2008	17:45:00	22.8	200	7.61	0.09	1.3
7/10/2008	18:00:00	22.9	202	7.61	0.08	1.1
7/10/2008	18:15:00	22.9	203	7.60	0.10	1.3
7/10/2008	18:30:00	22.9	203	7.59	0.08	1.1
7/10/2008	18:45:00	23.0	201	7.59	0.09	1.3
7/10/2008	19:00:00	23.0	202	7.57	0.08	1.2
7/10/2008	19:15:00	23.0	201	7.56	0.08	1.2
7/10/2008	19:30:00	23.0	206	7.55	0.11	1.5
7/10/2008	19:45:00	22.9	204	7.55	0.10	1.4
7/10/2008	20:00:00	22.9	202	7.54	0.08	1.1
7/10/2008	20:15:00	22.9	202	7.54	0.08	1.1
7/10/2008	20:30:00	22.9	202	7.53	0.08	1.1
7/10/2008	20:45:00	22.8	202	7.53	0.09	1.2
7/10/2008	21:00:00	22.8	205	7.53	0.10	1.4
7/10/2008	21:15:00	22.8	209	7.53	0.10	1.3
7/10/2008	21:30:00	22.7	205	7.53	0.10	1.3
7/10/2008	21:45:00	22.7	203	7.52	0.09	1.2
7/10/2008	22:00:00	22.7	219	7.50	0.07	1.0
7/10/2008	22:15:00	22.7	248	7.50	0.13	1.8
7/10/2008	22:30:00	22.6	233	7.50	0.12	1.6
7/10/2008	22:45:00	22.6	228	7.49	0.13	1.7
7/10/2008	23:00:00	22.5	224	7.50	0.11	1.5
7/10/2008	23:15:00	22.5	219	7.49	0.10	1.3
7/10/2008	23:30:00	22.4	215	7.50	0.11	1.4
7/10/2008	23:45:00	22.4	213	7.49	0.10	1.3
7/11/2008	0:00:00	22.4	206	7.49	0.08	1.1
7/11/2008	0:15:00	22.3	203	7.50	0.09	1.2

Table 5.82. Water quality measurements at Site 6, Rio Grande near San Antonio, New Mexico, during July 2008. [Temperature (C), water temperature in Celsius; SpCond (uS/cm), specific conductivity in microSiemens per centimeter; pH in standard units; DO (mg/L), dissolved oxygen in milligrams/Liter; DO Saturation (%), percent saturation dissolved oxygen; *, probe likely buried or repositioned; gray shading identifies time between dusk to dawn (see narrative text for more information).]

7/11/2008	0:30:00	22.3	203	7.50	0.11	1.4
7/11/2008	0:45:00	22.2	200	7.51	0.11	1.5
7/11/2008	1:00:00	22.2	197	7.51	0.09	1.2
7/11/2008	1:15:00	22.2	195	7.49	0.07	1.0
7/11/2008	1:30:00	22.1	192	7.50	0.08	1.1
7/11/2008	1:45:00	22.1	189	7.51	0.10	1.3
7/11/2008	2:00:00	22.1	188	7.52	0.08	1.1
7/11/2008	2:15:00	22.1	188	7.48	0.08	1.1
7/11/2008	2:30:00	22.0	184	7.47	0.10	1.4
7/11/2008	2:45:00	22.0	249	7.47	0.13	1.8
7/11/2008	3:00:00	22.0	248	7.47	0.13	1.7
7/11/2008	3:15:00	22.0	247	7.47	0.14	1.8
7/11/2008	3:30:00	22.0	247	7.49	0.15	2.0
7/11/2008	3:45:00	22.0	247	7.50	0.14	1.8
7/11/2008	4:00:00	22.0	247	7.50	0.14	1.9
7/11/2008	4:15:00	21.9	246	7.50	0.13	1.8
7/11/2008	4:30:00	21.9	246	7.50	0.15	2.0
7/11/2008	4:45:00	21.9	247	7.50	0.13	1.7
7/11/2008	5:00:00	21.9	246	7.50	0.15	2.0
7/11/2008	5:15:00	21.9	247	7.51	0.14	1.9
7/11/2008	5:30:00	21.9	247	7.51	0.14	1.8
7/11/2008	5:45:00	21.9	247	7.52	0.15	2.0
7/11/2008	6:00:00	21.9	247	7.52	0.15	2.0
7/11/2008	6:15:00	21.9	247	7.52	0.14	1.9
7/11/2008	6:30:00	21.9	248	7.52	0.14	1.9
7/11/2008	6:45:00	21.9	248	7.52	0.13	1.8
7/11/2008	7:00:00	21.9	248	7.53	0.15	2.0
7/11/2008	7:15:00	21.9	248	7.53	0.14	1.8
7/11/2008	7:30:00	21.9	249	7.54	0.15	2.0
7/11/2008	7:45:00	21.8	249	7.54	0.13	1.8
7/11/2008	8:00:00	21.8	249	7.56	0.15	2.0
7/11/2008	8:15:00	21.8	249	7.56	0.13	1.8
7/11/2008	8:30:00	21.8	250	7.56	0.13	1.7
7/11/2008	8:45:00	21.8	250	7.57	0.13	1.7
7/11/2008	9:00:00	21.8	250	7.57	0.14	1.9

Table 6. Summary statistics for water temperature measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Water temperature in Celsius; N, number of observations; Std. Dev., standard deviation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc.; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Water temperature values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Water Quality Summary by Site and Date in Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	663	18.8	23.3	26.6	1.5	2.3
Rio Grande at Alameda, NM	Athena	7/21/2006	509	19.7	25.0	29.4	2.4	5.8
Rio Grande at Los Lunas, NM	Nike	7/17/2006	365	21.2	28.2	38.4	4.8	23.1
Rio Grande at La Joya, NM	Athena	7/17/2006	374	22.6	26.7	32.2	2.8	7.9
Rio Grande near San Antonio, NM	Apollo	7/17/2006	301	21.6	27.4	37.0	4.3	18.5
Rio Grande at Bernalillo, NM	Athena	10/6/2006	654	11.2	16.2	20.2	1.9	3.7
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	16.9	17.9	20.0	0.9	0.8
Rio Grande at Alameda, NM	Nike	10/6/2006	279	12.9	17.5	21.9	2.0	4.1
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	12.3	16.5	21.8	2.2	4.7
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	389	13.7	18.5	24.2	2.6	6.6
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	12.7	18.0	24.1	2.7	7.1
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	379	12.4	15.4	18.3	1.4	1.9
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	10.3	15.1	18.7	1.8	3.1
Rio Grande at Los Lunas, NM	Nike	10/13/2006	481	8.6	14.7	18.1	2.2	4.9
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	10.1	14.6	17.5	1.9	3.5
Rio Grande at La Joya, NM	Athena	10/13/2006	335	11.2	15.5	17.0	0.7	0.5
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	14.3	15.5	16.8	0.6	0.3
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	0.4	2.5	4.0	0.9	0.7
Rio Grande at Bernalillo, NM	Athena	2/2/2007	378	0.8	3.2	5.5	1.1	1.2
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	0.7	2.6	5.1	1.2	1.4
Rio Grande at Los Padillas, NM	Athena	1/22/2007	385	1.5	4.3	7.0	1.4	2.0
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	1.1	3.8	6.6	1.4	2.0
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	3.9	6.0	8.0	1.0	1.1

Table 6. Summary statistics for water temperature measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Water temperature in Celsius; N, number of observations; Std. Dev., standard deviation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc.; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Water temperature values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	4.0	5.8	8.0	1.0	1.0
Rio Grande near San Antonio, NM	Athena	1/26/2007	643	1.8	5.4	9.2	1.6	2.5
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	399	2.1	5.0	8.1	1.4	1.9
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	13.2	14.2	14.6	0.4	0.1
Rio Grande at Alameda, NM	Nike	4/20/2007	654	9.7	13.0	16.6	1.7	3.0
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	9.6	12.6	14.6	1.4	1.9
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	280	9.7	13.9	18.3	2.2	4.6
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	9.5	14.4	21.0	2.5	6.5
Rio Grande at Los Lunas, NM	Athena	4/13/2007	90	9.2	9.9	11.2	0.7	0.5
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	8.3	9.7	10.8	0.9	0.7
Rio Grande at La Joya, NM	Apollo	4/17/2007	275	13.2	15.8	18.3	1.5	2.4
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	13.2	15.6	18.1	1.5	2.4
Rio Grande near San Antonio, NM	Nike	4/17/2007	289	10.7	15.5	19.5	2.2	4.8
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	11.3	15.3	19.4	2.3	5.2
Water Quality Summary by Site and Date in Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	548	9.8	12.9	15.8	1.4	2.0
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	9.5	12.6	15.5	1.4	2.1
Rio Grande at Alameda, NM	Athena	10/26/2007	548	9.4	13.0	16.8	2.1	4.3
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	9.4	13.3	16.8	2.1	4.3
Rio Grande at Los Padillas, NM	Nike	10/26/2007	563	10.9	15.6	20.8	2.5	6.4
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	10.0	15.5	20.8	2.8	7.7
Rio Grande at Los Lunas, NM	Nike	10/22/2007	371	3.6	12.0	21.1	4.6	20.9
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	3.6	11.4	21.0	5.6	31.2
Rio Grande at La Joya, NM	Athena	10/22/2007	374	7.1	11.7	16.1	2.3	5.3

Table 6. Summary statistics for water temperature measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Water temperature in Celsius; N, number of observations; Std. Dev., standard deviation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc.; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Water temperature values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at La Joya, NM	Marge	10/22/2007	374	6.9	11.5	16.0	2.3	5.4
Rio Grande near San Antonio, NM	Apollo	10/22/2007	377	4.9	10.8	16.6	3.0	8.9
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	4.5	10.4	17.2	3.3	10.6
Rio Grande at Bernalillo, NM	Nike	1/26/2008	459	-0.1	2.4	6.1	1.3	1.7
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	-0.2	2.3	6.0	1.3	1.7
Rio Grande at Alameda, NM	Apollo	1/26/2008	460	1.2	3.9	8.0	1.6	2.6
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	0.8	3.7	7.7	1.6	2.5
Rio Grande at Los Padillas, NM	Athena	1/26/2008	459	0.1	4.2	9.2	2.2	4.6
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	1.0	4.6	9.0	1.8	3.3
Rio Grande at Los Lunas, NM	Athena	1/24/2008	199	3.9	5.4	7.4	1.1	1.1
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	3.3	5.0	7.0	1.1	1.2
Rio Grande at La Joya, NM	Nike	1/22/2008	357	2.3	4.6	6.6	1.0	1.1
Rio Grande at La Joya, NM	Marge	1/22/2008	357	2.2	4.6	6.5	1.0	1.1
Rio Grande near San Antonio, NM	Apollo	1/22/2008	371	0.7	4.0	8.0	1.4	2.1
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	0.9	4.0	7.9	1.4	2.1
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	484	7.9	10.6	13.8	1.7	3.0
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	8.4	10.5	13.5	1.5	2.3
Rio Grande at Alameda, NM	Athena	4/11/2008	480	8.2	11.3	13.9	1.5	2.2
Rio Grande at Alameda, NM	Marge	4/11/2008	462	8.0	11.1	13.8	1.5	2.2
Rio Grande at Los Padillas, NM	Nike	4/11/2008	491	8.2	12.0	17.2	2.0	4.0
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	7.9	11.8	16.9	2.1	4.4
Rio Grande at Los Lunas, NM	Athena	4/7/2008	164	9.1	12.3	15.4	2.1	4.6
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	8.7	12.6	15.1	2.4	5.8
Rio Grande at La Joya, NM	Apollo	4/7/2008	273	10.2	13.5	15.5	1.4	1.9

Table 6. Summary statistics for water temperature measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Water temperature in Celsius; N, number of observations; Std. Dev., standard deviation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc.; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Water temperature values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	9.9	13.4	15.2	1.2	1.3
Rio Grande near San Antonio, NM	Nike	4/7/2008	287	10.5	13.7	16.8	1.7	3.0
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	561	19.5	22.1	24.7	1.2	1.5
Rio Grande at Alameda, NM	Athena	7/11/2008	523	20.9	23.1	27.3	1.5	2.1
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	20.7	22.9	27.0	1.4	2.0
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	21.3	23.8	27.2	1.4	1.9
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	19.1	23.1	27.4	1.9	3.7
Rio Grande at La Joya, NM	Athena	7/7/2008	222	21.2	23.8	26.4	1.4	1.9
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	22.6	24.3	26.1	1.1	1.2
Rio Grande near San Antonio, NM	Apollo	7/7/2008	381	21.7	23.6	27.0	1.3	1.8
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	24.3	25.6	26.8	0.8	0.7
Water Quality Summary by Season								
Site Name	Season of Deployment		N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at Bernalillo, NM	Spring		612	7.9	10.8	14.6	1.8	3.3
Rio Grande at Alameda, NM	Spring		1,917	8.0	12.1	16.6	1.8	3.2
Rio Grande at Los Padillas, NM	Spring		1,926	7.9	13.0	21.0	2.5	6.5
Rio Grande at Los Lunas, NM	Spring		379	8.3	11.3	15.4	2.2	4.7
Rio Grande at La Joya, NM	Spring		1,072	9.9	14.6	18.3	1.8	3.3
Rio Grande near San Antonio, NM	Spring		852	10.5	14.8	19.5	2.2	5.0
Rio Grande at Bernalillo, NM	Summer		1,224	18.8	22.8	26.6	1.5	2.3
Rio Grande at Alameda, NM	Summer		1,581	19.7	23.6	29.4	2.0	4.1
Rio Grande at Los Padillas, NM	Summer		146	21.3	23.8	27.2	1.4	1.9
Rio Grande at Los Lunas, NM	Summer		635	19.1	26.0	38.4	4.6	21.2
Rio Grande at La Joya, NM	Summer		700	21.2	25.4	32.2	2.6	6.8

Table 6. Summary statistics for water temperature measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Water temperature in Celsius; N, number of observations; Std. Dev., standard deviation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc.; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Water temperature values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande near San Antonio, NM	Summer		708	21.6	25.3	37.0	3.5	12.3
Rio Grande at Bernalillo, NM	Fall		1,932	9.5	14.4	20.2	2.5	6.3
Rio Grande at Alameda, NM	Fall		1,620	9.4	14.7	21.9	2.8	8.0
Rio Grande at Los Padillas, NM	Fall		2,928	10.0	16.2	24.2	2.7	7.2
Rio Grande at Los Lunas, NM	Fall		1,462	3.6	13.7	21.1	3.6	12.8
Rio Grande at La Joya, NM	Fall		1,293	6.9	13.2	17.0	2.6	7.0
Rio Grande near San Antonio, NM	Fall		754	4.5	10.6	17.2	3.1	9.8
Rio Grande at Bernalillo, NM	Winter		1,661	-0.2	2.6	6.1	1.2	1.5
Rio Grande at Alameda, NM	Winter		1,145	0.7	3.6	8.0	1.6	2.6
Rio Grande at Los Padillas, NM	Winter		1,602	0.1	4.2	9.2	1.8	3.1
Rio Grande at Los Lunas, NM	Winter		938	3.3	5.6	8.0	1.1	1.3
Rio Grande at La Joya, NM	Winter		1,308	2.2	5.1	8.0	1.2	1.4
Rio Grande near San Antonio, NM	Winter		1,709	0.7	4.7	9.2	1.6	2.6
Water Quality Summary by Site and Sample Year								
Site Name	Site Number and Sample Year		N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at Bernalillo, NM	Site 1, Year 1		2,270	0.4	14.0	26.6	8.4	70.6
Rio Grande at Alameda, NM	Site 2, Year 1		2,417	0.7	15.6	29.4	6.5	42.4
Rio Grande at Los Padillas, NM	Site 3, Year 1		3,492	1.1	13.3	24.2	5.5	30.1
Rio Grande at Los Lunas, NM	Site 4, Year 1		2,016	3.9	14.4	38.4	7.9	61.7
Rio Grande at La Joya, NM	Site 5, Year 1		2,060	4.0	14.8	32.2	7.2	51.8
Rio Grande near San Antonio, NM	Site 6, Year 1		1,908	1.8	11.7	37.0	8.5	71.5
Rio Grande at Bernalillo, NM	Site 1, Year 2		3,159	-0.2	11.0	24.7	6.8	46.5
Rio Grande at Alameda, NM	Site 2, Year 2		3,846	0.8	13.2	27.3	7.1	51.1
Rio Grande at Los Padillas, NM	Site 3, Year 2		3,110	0.1	11.7	27.2	5.6	31.9

Table 6. Summary statistics for water temperature measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Water temperature in Celsius; N, number of observations; Std. Dev., standard deviation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc.; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Water temperature values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Minimum	Average	Maximum	Std. Dev.	Variance
Rio Grande at Los Lunas, NM	Site 4, Year 2		1,398	3.3	12.2	27.4	6.9	47.2
Rio Grande at La Joya, NM	Site 5, Year 2		2,313	2.2	11.6	26.4	6.3	40.1
Rio Grande near San Antonio, NM	Site 6, Year 2		2,115	0.7	11.5	27.0	7.2	52.3
Rio Grande at Bernalillo, NM	Site 1, all data		5,429	-0.2	12.3	26.6	7.7	58.8
Rio Grande at Alameda, NM	Site 2, all data		6,263	0.7	14.1	29.4	7.0	49.1
Rio Grande at Los Padillas, NM	Site 3, all data		6,602	0.1	12.5	27.2	5.6	31.5
Rio Grande at Los Lunas, NM	Site 4, all data		3,414	3.3	13.5	38.4	7.5	56.9
Rio Grande at La Joya, NM	Site 5, all data		4,373	2.2	13.1	32.2	6.9	48.1
Rio Grande near San Antonio, NM	Site 6, all data		4,023	0.7	11.6	37.0	7.8	61.4
All Rio Grande Site Data	all site data		30,104	-0.2	12.9	38.4	7.1	50.0

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Water Quality Summary by Site and Date in Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	0					
Rio Grande at Alameda, NM	Athena	7/21/2006	0					
Rio Grande at Los Lunas, NM	Nike	7/17/2006	0					
Rio Grande at La Joya, NM	Athena	7/17/2006	0					
Rio Grande near San Antonio, NM	Apollo	7/17/2006	0					
Rio Grande at Bernalillo, NM	Athena	10/6/2006	0					
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	292	296.7	303	2.7	7
Rio Grande at Alameda, NM	Nike	10/6/2006	0					
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	50	347.2	1027	196.1	38454
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	0					
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	183	447.1	974	148.7	22106
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	0					
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	114	337.8	376	34.4	1183
Rio Grande at Los Lunas, NM	Nike	10/13/2006	0					
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	151	229.1	361	52.4	2741
Rio Grande at La Joya, NM	Athena	10/13/2006	0					
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	119	243.6	429	54.8	3007
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	189	274.1	354	27.6	760
Rio Grande at Bernalillo, NM	Athena	2/2/2007	0					

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	119	215.0	303	54.6	2985
Rio Grande at Los Padillas, NM	Athena	1/22/2007	0					
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	83	200.7	353	88.8	7878
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	106	337.8	377	26.9	722
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	118	212.7	437	113.3	12838
Rio Grande near San Antonio, NM	Athena	1/26/2007	0					
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	338	51	331.1	460	117.5	13805
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	204	213.6	232	7.0	49
Rio Grande at Alameda, NM	Nike	4/20/2007	0					
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	109	171.1	246	22.5	507
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	0					
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	272	295.2	319	12.2	150
Rio Grande at Los Lunas, NM	Athena	4/13/2007	0					
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	195	221.6	251	15.6	242
Rio Grande at La Joya, NM	Apollo	4/17/2007	0					
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	204	330.0	378	69.8	4868
Rio Grande near San Antonio, NM	Nike	4/17/2007	0					
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	197	272.0	475	69.7	4853
Water Quality Summary by Site and Date in Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	0					

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	307	319.4	336	7.4	55
Rio Grande at Alameda, NM	Athena	10/26/2007	0					
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	162	244.5	352	76.7	5885
Rio Grande at Los Padillas, NM	Nike	10/26/2007	0					
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	355	464.2	511	27.3	747
Rio Grande at Los Lunas, NM	Nike	10/22/2007	0					
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	129	447.1	477	53.3	2845
Rio Grande at La Joya, NM	Athena	10/22/2007	0					
Rio Grande at La Joya, NM	Marge	10/22/2007	374	573	605.4	653	17.1	292
Rio Grande near San Antonio, NM	Apollo	10/22/2007	0					
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	299	333.7	637	66.5	4426
Rio Grande at Bernalillo, NM	Nike	1/26/2008	0					
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	250	275.4	349	15.8	250
Rio Grande at Alameda, NM	Apollo	1/26/2008	0					
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	125	275.2	328	34.4	1185
Rio Grande at Los Padillas, NM	Athena	1/26/2008	0					
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	251	322.9	352	12.9	167
Rio Grande at Los Lunas, NM	Athena	1/24/2008	0					
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	156	246.1	328	29.6	877
Rio Grande at La Joya, NM	Nike	1/22/2008	0					

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at La Joya, NM	Marge	1/22/2008	357	379	406.6	427	11.6	135
Rio Grande near San Antonio, NM	Apollo	1/22/2008	0					
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	127	462.9	502	82.8	6860
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	0					
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	173	180.3	248	13.3	177
Rio Grande at Alameda, NM	Athena	4/11/2008	0					
Rio Grande at Alameda, NM	Marge	4/11/2008	462	78	248.5	257	28.3	802
Rio Grande at Los Padillas, NM	Nike	4/11/2008	0					
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	232	240.6	247	4.4	20
Rio Grande at Los Lunas, NM	Athena	4/7/2008	0					
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	267	277.1	287	5.8	34
Rio Grande at La Joya, NM	Apollo	4/7/2008	0					
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	110	157.1	299	77.1	5944
Rio Grande near San Antonio, NM	Nike	4/7/2008	0					
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	100	266	272.8	276	2.1	4
Rio Grande at Alameda, NM	Athena	7/11/2008	0					
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	178	226.3	278	23.4	549
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	91	275.6	393	83.3	6943
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	321	344.7	381	13.5	184
Rio Grande at La Joya, NM	Athena	7/7/2008	0					

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	160	179.6	358	42.6	1818
Rio Grande near San Antonio, NM	Apollo	7/7/2008	0					
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	369	379.7	389	5.4	29
Water Quality Summary by Season								
Site Name	Season of Deployment		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring		128	173	187.6	248	18.5	341
Rio Grande at Alameda, NM	Spring		783	78	216.8	257	46.2	2133
Rio Grande at Los Padillas, NM	Spring		1155	232	271.6	319	28.7	825
Rio Grande at Los Lunas, NM	Spring		125	195	247.8	287	30.3	917
Rio Grande at La Joya, NM	Spring		524	110	246.8	378	113.4	12849
Rio Grande near San Antonio, NM	Spring		276	197	272.0	475	69.7	4853
Rio Grande at Bernalillo, NM	Summer		100	266	272.8	276	2.1	4
Rio Grande at Alameda, NM	Summer		549	178	226.3	278	23.4	549
Rio Grande at Los Padillas, NM	Summer		146	91	275.6	393	83.3	6943
Rio Grande at Los Lunas, NM	Summer		270	321	344.7	381	13.5	184
Rio Grande at La Joya, NM	Summer		104	160	179.6	358	42.6	1818
Rio Grande near San Antonio, NM	Summer		26	369	379.7	389	5.4	29
Rio Grande at Bernalillo, NM	Fall		730	292	313.8	336	11.8	140
Rio Grande at Alameda, NM	Fall		781	50	297.5	1027	159.1	25303
Rio Grande at Los Padillas, NM	Fall		1597	114	413.3	974	101.2	10248

Table 7. Summary statistics for specific conductivity measurements by sample year, date of deployment, season, and site listed from upstream to downstream. [Specific conductance in microsiemens per centimeter at 25°C; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variatiance. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. did not measure conductance; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. Specific conductivity values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Los Lunas, NM	Fall		610	129	277.7	477	104.9	11007
Rio Grande at La Joya, NM	Fall		584	119	475.3	653	177.4	31458
Rio Grande near San Antonio, NM	Fall		377	299	333.7	637	66.5	4426
Rio Grande at Bernalillo, NM	Winter		824	189	274.8	354	21.8	476
Rio Grande at Alameda, NM	Winter		685	119	254.2	328	51.3	2632
Rio Grande at Los Padillas, NM	Winter		758	83	263.3	353	87.5	7662
Rio Grande at Los Lunas, NM	Winter		739	106	313.1	377	49.2	2417
Rio Grande at La Joya, NM	Winter		951	118	285.5	437	130.0	16892
Rio Grande near San Antonio, NM	Winter		634	51	392.6	502	122.0	14880
Water Quality Summary by Site								
Site Name	(upstream to downstream)		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1		1782	173	284.4	354	37.1	1379
Rio Grande at Alameda, NM	2		2798	50	250.3	1027	97.2	9457
Rio Grande at Los Padillas, NM	3		3656	83	331.9	974	108.4	11742
Rio Grande at Los Lunas, NM	4		1744	106	300.9	477	75.6	5713
Rio Grande at La Joya, NM	5		2163	110	322.3	653	168.5	28378
Rio Grande near San Antonio, NM	6		1313	51	350.1	637	108.3	11719
All Rio Grande Sites	All		13456	50	304.9	1027	113.6	12904

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	0					
Rio Grande at Alameda, NM	Athena	7/21/2006	0					
Rio Grande at Los Lunas, NM	Nike	7/17/2006	0					
Rio Grande at La Joya, NM	Athena	7/17/2006	0					
Rio Grande near San Antonio, NM	Apollo	7/17/2006	0					
Rio Grande at Bernalillo, NM	Athena	10/6/2006	0					
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	8.3	8.5	8.7	0.1	0.01
Rio Grande at Alameda, NM	Nike	10/6/2006	0					
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	7.8	8.4	9.0	0.2	0.06
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	0					
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	7.9	8.1	8.4	0.1	0.02
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	0					
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	7.8	8.2	8.3	0.1	0.00
Rio Grande at Los Lunas, NM	Nike	10/13/2006	0					
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	7.9	8.3	8.8	0.2	0.03
Rio Grande at La Joya, NM	Athena	10/13/2006	0					
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	8.1	8.2	8.3	0.0	0.00

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	8.1	8.5	9.0	0.3	0.07
Rio Grande at Bernalillo, NM	Athena	2/2/2007	0					
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	8.2	8.4	8.7	0.2	0.03
Rio Grande at Los Padillas, NM	Athena	1/22/2007	0					
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	7.9	8.0	8.1	0.0	0.00
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	8.1	8.1	8.2	0.0	0.00
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	8.0	8.2	8.3	0.0	0.00
Rio Grande near San Antonio, NM	Athena	1/26/2007	0					
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	399	8.2	8.3	8.3	0.0	0.00
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	8.0	8.2	8.5	0.2	0.03
Rio Grande at Alameda, NM	Nike	4/20/2007	0					
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	8.2	8.4	8.8	0.2	0.03
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	0					
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	7.9	8.0	8.1	0.1	0.00
Rio Grande at Los Lunas, NM	Athena	4/13/2007	0					
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	7.8	7.8	7.9	0.0	0.00
Rio Grande at La Joya, NM	Apollo	4/17/2007	0					
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	8.1	8.2	8.2	0.0	0.00

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande near San Antonio, NM	Nike	4/17/2007	0					
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	8.1	8.2	8.2	0.0	0.00
Water Quality Summary by Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	-					
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	8.5	8.7	9.0	0.1	0.02
Rio Grande at Alameda, NM	Athena	10/26/2007	-					
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	7.9	8.5	8.8	0.2	0.02
Rio Grande at Los Padillas, NM	Nike	10/26/2007	-					
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	7.8	8.1	8.5	0.1	0.02
Rio Grande at Los Lunas, NM	Nike	10/22/2007	-					
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	8.5	8.6	8.8	0.1	0.01
Rio Grande at La Joya, NM	Athena	10/22/2007	-					
Rio Grande at La Joya, NM	Marge	10/22/2007	374	8.4	8.5	8.6	0.0	0.00
Rio Grande near San Antonio, NM	Apollo	10/22/2007	-					
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	8.4	8.5	8.6	0.0	0.00
Rio Grande at Bernalillo, NM	Nike	1/26/2008	-					
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	8.3	8.8	9.2	0.3	0.07
Rio Grande at Alameda, NM	Apollo	1/26/2008	-					

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	8.4	8.6	8.8	0.1	0.01
Rio Grande at Los Padillas, NM	Athena	1/26/2008	-					
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	8.2	8.2	8.3	0.0	0.00
Rio Grande at Los Lunas, NM	Athena	1/24/2008	-					
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	8.2	8.2	8.3	0.0	0.00
Rio Grande at La Joya, NM	Nike	1/22/2008	-					
Rio Grande at La Joya, NM	Marge	1/22/2008	357	8.3	8.4	8.5	0.0	0.00
Rio Grande near San Antonio, NM	Apollo	1/22/2008	-					
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	8.2	8.5	8.6	0.0	0.00
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	-					
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	8.0	8.6	8.9	0.2	0.04
Rio Grande at Alameda, NM	Athena	4/11/2008	-					
Rio Grande at Alameda, NM	Marge	4/11/2008	462	8.2	8.3	8.5	0.1	0.00
Rio Grande at Los Padillas, NM	Nike	4/11/2008	-					
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	7.7	7.8	7.9	0.1	0.00
Rio Grande at Los Lunas, NM	Athena	4/7/2008	-					
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	7.8	7.9	8.1	0.1	0.01
Rio Grande at La Joya, NM	Apollo	4/7/2008	-					

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	7.6	7.7	7.7	0.0	0.00
Rio Grande near San Antonio, NM	Nike	4/7/2008	-					
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	561	7.7	7.9	8.2	0.1	0.02
Rio Grande at Alameda, NM	Athena	7/11/2008	-					
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	7.3	7.9	8.1	0.1	0.01
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	7.6	7.9	8.0	0.1	0.01
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	8.0	8.1	8.3	0.0	0.00
Rio Grande at La Joya, NM	Athena	7/7/2008	-					
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	7.8	7.8	7.9	0.0	0.00
Rio Grande near San Antonio, NM	Apollo	7/7/2008	-					
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	8.0	8.1	8.2	0.0	0.00
Water Quality Summary by Season								
Site Name	Season of Deployment		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring		128	8.0	8.5	8.9	0.3	0.07
Rio Grande at Alameda, NM	Spring		783	8.2	8.3	8.8	0.1	0.02
Rio Grande at Los Padillas, NM	Spring		1,155	7.7	7.9	8.1	0.1	0.02
Rio Grande at Los Lunas, NM	Spring		125	7.8	7.9	8.1	0.1	0.01
Rio Grande at La Joya, NM	Spring		524	7.6	7.9	8.2	0.3	0.06

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande near San Antonio, NM	Spring		276	8.1	8.2	8.2	0.0	0.00
Rio Grande at Bernalillo, NM	Summer		561	7.7	7.9	8.2	0.1	0.02
Rio Grande at Alameda, NM	Summer		549	7.3	7.9	8.1	0.1	0.01
Rio Grande at Los Padillas, NM	Summer		146	7.6	7.9	8.0	0.1	0.01
Rio Grande at Los Lunas, NM	Summer		270	8.0	8.1	8.3	0.0	0.00
Rio Grande at La Joya, NM	Summer		104	7.8	7.8	7.9	0.0	0.00
Rio Grande near San Antonio, NM	Summer		26	8.0	8.1	8.2	0.0	0.00
Rio Grande at Bernalillo, NM	Fall		730	8.3	8.6	9.0	0.1	0.02
Rio Grande at Alameda, NM	Fall		781	7.8	8.5	9.0	0.2	0.04
Rio Grande at Los Padillas, NM	Fall		1,597	7.8	8.1	8.5	0.1	0.01
Rio Grande at Los Lunas, NM	Fall		610	7.9	8.4	8.8	0.2	0.04
Rio Grande at La Joya, NM	Fall		584	8.1	8.4	8.6	0.2	0.02
Rio Grande near San Antonio, NM	Fall		377	8.4	8.5	8.6	0.0	0.00
Rio Grande at Bernalillo, NM	Winter		824	8.1	8.6	9.2	0.3	0.10
Rio Grande at Alameda, NM	Winter		685	8.2	8.5	8.8	0.2	0.03
Rio Grande at Los Padillas, NM	Winter		758	7.9	8.1	8.3	0.1	0.02
Rio Grande at Los Lunas, NM	Winter		739	8.1	8.2	8.3	0.0	0.00
Rio Grande at La Joya, NM	Winter		951	8.0	8.3	8.5	0.1	0.02

Table 8. Summary statistics for pH measurements by sample year, date of deployment, season, and site listed from upstream to downstream. ["pH" is the negative base 10 logarithm of the molar activity of dissolved hydrogen ions (H+) and a measure of acidity or basicity; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and did not measure pH; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. pH values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande near San Antonio, NM	Winter		695	8.2	8.4	8.6	0.1	0.01
Water Quality Summary by Site								
Site Name	(upstream to downstream)		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1		2,243	7.7	8.5	9.2	0.4	0.14
Rio Grande at Alameda, NM	2		2,798	7.3	8.3	9.0	0.3	0.07
Rio Grande at Los Padillas, NM	3		3,656	7.6	8.0	8.5	0.2	0.02
Rio Grande at Los Lunas, NM	4		1,744	7.8	8.2	8.8	0.2	0.03
Rio Grande at La Joya, NM	5		2,163	7.6	8.2	8.6	0.3	0.07
Rio Grande near San Antonio, NM	6		1,374	8.0	8.4	8.6	0.1	0.02
All Rio Grande Sites	All		13,978	7.3	8.2	9.2	0.29	0.08

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	663	3.4	5.7	7.8	1.3	1.8
Rio Grande at Alameda, NM	Athena	7/21/2006	509	3.4	5.8	6.9	0.9	0.8
Rio Grande at Los Lunas, NM	Nike	7/17/2006	365	5.8	7.0	7.9	0.5	0.3
Rio Grande at La Joya, NM	Athena	7/17/2006	374	6.0	6.5	7.3	0.4	0.2
Rio Grande near San Antonio, NM	Apollo	7/17/2006	301	2.9	5.0	6.9	1.0	0.9
Rio Grande at Bernalillo, NM	Athena	10/6/2006	654	7.3	7.9	8.7	0.2	0.1
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	7.3	7.5	7.8	0.1	0.0
Rio Grande at Alameda, NM	Nike	10/6/2006	279	4.4	7.7	8.4	0.7	0.5
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	3.7	5.8	6.5	0.4	0.2
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	389	4.2	6.5	7.8	1.3	1.7
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	4.8	6.6	7.1	0.3	0.1
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	379	4.3	7.7	8.6	0.9	0.7
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	4.6	6.8	8.3	0.6	0.3
Rio Grande at Los Lunas, NM	Nike	10/13/2006	481	4.1	6.2	8.2	0.6	0.4
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	4.0	6.5	8.6	0.6	0.4
Rio Grande at La Joya, NM	Athena	10/13/2006	335	4.2	7.3	8.9	1.1	1.1
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	4.2	7.2	8.0	0.7	0.5
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	10.6	11.0	11.4	0.2	0.0
Rio Grande at Bernalillo, NM	Athena	2/2/2007	378	10.7	11.2	11.5	0.2	0.0
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	7.2	10.1	11.2	0.9	0.9

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Los Padillas, NM	Athena	1/22/2007	385	10.0	10.5	11.2	0.3	0.1
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	10.6	11.3	12.3	0.4	0.2
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	6.1	9.3	10.3	0.6	0.3
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	5.2	8.8	10.1	1.3	1.7
Rio Grande near San Antonio, NM	Athena	1/26/2007	643	9.6	10.4	11.1	0.3	0.1
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	399	5.5	10.2	11.2	1.0	0.9
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	4.3	6.4	8.4	1.5	2.4
Rio Grande at Alameda, NM	Nike	4/20/2007	654	4.4	7.7	9.3	1.5	2.1
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	4.4	7.9	8.8	0.9	0.8
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	280	3.9	6.3	8.7	1.5	2.2
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	4.9	6.4	7.4	0.5	0.3
Rio Grande at Los Lunas, NM	Athena	4/13/2007	90	4.9	7.5	8.8	1.1	1.2
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	4.9	8.1	8.7	0.5	0.3
Rio Grande at La Joya, NM	Apollo	4/17/2007	275	7.4	8.0	8.4	0.3	0.1
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	6.4	7.2	8.0	0.4	0.1
Rio Grande near San Antonio, NM	Nike	4/17/2007	289	7.0	7.8	9.1	0.5	0.2
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	4.7	7.5	8.2	0.5	0.3
Water Quality Summary by Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	548	8.8	9.2	9.8	0.3	0.1
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	7.5	8.0	8.6	0.2	0.1
Rio Grande at Alameda, NM	Athena	10/26/2007	548	4.6	6.4	9.6	1.3	1.7

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	4.2	6.9	7.9	0.8	0.6
Rio Grande at Los Padillas, NM	Nike	10/26/2007	563	4.2	7.7	9.3	1.0	0.9
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	6.1	7.2	8.2	0.4	0.2
Rio Grande at Los Lunas, NM	Nike	10/22/2007	371	6.7	9.1	10.8	1.1	1.1
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	4.9	7.5	9.5	1.0	1.1
Rio Grande at La Joya, NM	Athena	10/22/2007	374	7.7	8.7	9.7	0.5	0.2
Rio Grande at La Joya, NM	Marge	10/22/2007	374	7.1	8.2	9.3	0.5	0.3
Rio Grande near San Antonio, NM	Apollo	10/22/2007	377	4.9	8.4	10.7	1.6	2.6
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	6.9	8.7	10.6	0.9	0.7
Rio Grande at Bernalillo, NM	Nike	1/26/2008	459	10.3	11.6	13.3	0.7	0.5
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	9.4	10.5	11.8	0.6	0.4
Rio Grande at Alameda, NM	Apollo	1/26/2008	460	9.8	11.1	11.6	0.4	0.1
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	6.0	10.1	11.3	1.3	1.7
Rio Grande at Los Padillas, NM	Athena	1/26/2008	459	9.7	10.8	12.0	0.5	0.3
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	5.4	8.0	9.6	1.0	1.0
Rio Grande at Los Lunas, NM	Athena	1/24/2008	199	9.2	10.1	10.5	0.3	0.1
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	9.9	10.3	10.9	0.2	0.1
Rio Grande at La Joya, NM	Nike	1/22/2008	357	9.6	10.2	10.5	0.2	0.0
Rio Grande at La Joya, NM	Marge	1/22/2008	357	9.0	9.5	10.0	0.2	0.0
Rio Grande near San Antonio, NM	Apollo	1/22/2008	371	10.5	11.1	11.9	0.3	0.1
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	5.8	10.3	11.4	0.8	0.6

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	484	8.7	9.2	9.9	0.2	0.1
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	4.6	6.1	8.3	1.1	1.3
Rio Grande at Alameda, NM	Athena	4/11/2008	480	8.2	9.5	10.8	0.6	0.4
Rio Grande at Alameda, NM	Marge	4/11/2008	462	4.8	7.6	8.6	0.6	0.3
Rio Grande at Los Padillas, NM	Nike	4/11/2008	491	8.1	8.8	9.4	0.3	0.1
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	6.3	8.3	9.6	1.0	0.9
Rio Grande at Los Lunas, NM	Athena	4/7/2008	164	4.4	6.8	9.2	1.3	1.7
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	4.3	5.5	6.8	0.8	0.6
Rio Grande at La Joya, NM	Apollo	4/7/2008	273	4.7	8.2	8.9	0.4	0.2
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	4.8	6.4	6.8	0.3	0.1
Rio Grande near San Antonio, NM	Nike	4/7/2008	287	8.0	8.4	8.9	0.2	0.0
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	561	5.6	6.4	7.2	0.4	0.1
Rio Grande at Alameda, NM	Athena	7/11/2008	523	3.4	5.1	7.4	1.2	1.6
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	4.2	5.9	6.5	0.5	0.2
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	3.4	5.8	6.7	0.9	0.9
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	5.6	6.0	6.8	0.3	0.1
Rio Grande at La Joya, NM	Athena	7/7/2008	222	3.5	4.1	6.5	0.6	0.4
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	3.6	4.9	6.5	1.0	1.0
Rio Grande near San Antonio, NM	Apollo	7/7/2008	381	6.6	7.4	8.3	0.4	0.2
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	3.5	5.3	6.8	1.2	1.5
Water Quality Summary by Season								

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Site Name	Season of Deployment		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring		612	4.3	8.6	9.9	1.4	1.9
Rio Grande at Alameda, NM	Spring		1,917	4.4	8.2	10.8	1.3	1.7
Rio Grande at Los Padillas, NM	Spring		1,926	3.9	7.5	9.6	1.4	1.9
Rio Grande at Los Lunas, NM	Spring		379	4.3	7.0	9.2	1.3	1.8
Rio Grande at La Joya, NM	Spring		1,072	4.7	7.5	8.9	0.8	0.6
Rio Grande near San Antonio, NM	Spring		852	4.7	7.9	9.1	0.5	0.3
Rio Grande at Bernalillo, NM	Summer		1,224	3.4	6.0	7.8	1.1	1.2
Rio Grande at Alameda, NM	Summer		1,581	3.4	5.6	7.4	1.0	1.0
Rio Grande at Los Padillas, NM	Summer		146	3.4	5.8	6.7	0.9	0.9
Rio Grande at Los Lunas, NM	Summer		635	5.6	6.6	7.9	0.6	0.4
Rio Grande at La Joya, NM	Summer		700	3.5	5.5	7.3	1.3	1.6
Rio Grande near San Antonio, NM	Summer		708	2.9	6.3	8.3	1.4	1.9
Rio Grande at Bernalillo, NM	Fall		1,932	7.3	8.3	9.8	0.6	0.4
Rio Grande at Alameda, NM	Fall		1,608	3.7	6.6	9.6	1.1	1.2
Rio Grande at Los Padillas, NM	Fall		2,928	4.2	7.1	9.3	0.9	0.8
Rio Grande at Los Lunas, NM	Fall		1,462	4.0	7.2	10.8	1.4	2.0
Rio Grande at La Joya, NM	Fall		1,293	4.2	7.9	9.7	1.0	0.9
Rio Grande near San Antonio, NM	Fall		754	4.9	8.6	10.7	1.3	1.7
Rio Grande at Bernalillo, NM	Winter		1,661	9.4	11.1	13.3	0.7	0.4
Rio Grande at Alameda, NM	Winter		1,145	6.0	10.5	11.6	1.1	1.2

Table 9. Summary statistics for oxygen dissolved in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Dissolved oxygen in mg/L; N, number of observations; Min, minimum; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Dissolved oxygen values were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)]

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Los Padillas, NM	Winter		1,602	5.4	10.2	12.3	1.4	2.0
Rio Grande at Los Lunas, NM	Winter		938	6.1	9.7	10.9	0.6	0.4
Rio Grande at La Joya, NM	Winter		1,308	5.2	9.4	10.5	1.1	1.1
Rio Grande near San Antonio, NM	Winter		1,709	5.5	10.5	11.9	0.7	0.5
Water Quality Summary by Site								
Site Name	(upstream to downstream)		N	Min	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1		5,429	3.4	8.7	13.3	2.0	4.1
Rio Grande at Alameda, NM	2		6,251	3.4	7.5	11.6	2.0	4.2
Rio Grande at Los Padillas, NM	3		6,602	3.4	7.9	12.3	1.8	3.1
Rio Grande at Los Lunas, NM	4		3,414	4.0	7.7	10.9	1.7	2.8
Rio Grande at La Joya, NM	5		4,373	3.5	7.9	10.5	1.6	2.6
Rio Grande near San Antonio, NM	6		4,023	2.9	8.8	11.9	1.8	3.4
All Rio Grande Sites	All		30,092	2.9	8.1	13.3	1.91	3.7

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1								
Rio Grande at Bernalillo, NM	Nike	7/21/2006	663	50	81	115	19.4	374.6
Rio Grande at Alameda, NM	Athena	7/21/2006	509	50	85	103	13.1	171.9
Rio Grande at Los Lunas, NM	Nike	7/17/2006	365	90	108	143	13.4	178.4
Rio Grande at La Joya, NM	Athena	7/17/2006	374	88	98	116	9.0	80.2
Rio Grande near San Antonio, NM	Apollo	7/17/2006	301	50	77	120	16.8	282.6
Rio Grande at Bernalillo, NM	Athena	10/6/2006	654	85	97	104	2.9	8.5
Rio Grande at Bernalillo, NM	Hermes	10/6/2006	182	91	93	98	1.8	3.4
Rio Grande at Alameda, NM	Nike	10/6/2006	279	51	96	108	10.5	109.3
Rio Grande at Alameda, NM	Phoebe	10/6/2006	403	51	85	95	6.8	45.6
Rio Grande at Los Padillas, NM	Apollo	10/6/2006	389	50	84	104	19.0	361.4
Rio Grande at Los Padillas, NM	Homer	10/6/2006	451	54	83	94	6.2	38.8
Rio Grande at Los Padillas, NM	Apollo	10/13/2006	379	50	93	102	11.0	119.9
Rio Grande at Los Padillas, NM	Homer	10/13/2006	583	51	81	91	6.4	41.3
Rio Grande at Los Lunas, NM	Nike	10/13/2006	481	51	74	98	8.7	76.1
Rio Grande at Los Lunas, NM	Phoebe	10/13/2006	474	50	79	96	8.1	66.1
Rio Grande at La Joya, NM	Athena	10/13/2006	335	50	88	105	12.9	167.7
Rio Grande at La Joya, NM	Hermes	10/13/2006	210	50	85	94	8.5	73.0
Rio Grande at Bernalillo, NM	Homer	1/22/2007	365	91	96	101	2.0	4.0
Rio Grande at Bernalillo, NM	Athena	2/2/2007	378	95	101	107	2.9	8.3

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Hermes	1/22/2007	239	64	89	101	9.1	82.7
Rio Grande at Los Padillas, NM	Athena	1/22/2007	385	94	98	105	3.1	9.7
Rio Grande at Los Padillas, NM	Phoebe	1/22/2007	370	99	103	111	3.0	8.8
Rio Grande at Los Lunas, NM	Homer	1/26/2007	540	58	89	101	5.5	30.7
Rio Grande at La Joya, NM	Hermes	1/26/2007	594	50	84	97	12.9	166.7
Rio Grande near San Antonio, NM	Athena	1/26/2007	643	96	99	106	2.2	5.0
Rio Grande near San Antonio, NM	Phoebe	1/26/2007	399	57	99	111	9.4	89.3
Rio Grande at Bernalillo, NM	Phoebe	4/20/2007	28	50	75	97	17.8	317.0
Rio Grande at Alameda, NM	Nike	4/20/2007	654	52	89	107	15.4	235.9
Rio Grande at Alameda, NM	Hermes	4/20/2007	321	50	90	100	10.1	101.1
Rio Grande at Los Padillas, NM	Apollo	4/20/2007	280	50	74	105	18.4	339.7
Rio Grande at Los Padillas, NM	Homer	4/20/2007	655	62	74	89	4.5	20.7
Rio Grande at Los Lunas, NM	Athena	4/13/2007	90	52	81	98	12.9	167.7
Rio Grande at Los Lunas, NM	Phoebe	4/13/2007	66	51	87	95	6.6	42.9
Rio Grande at La Joya, NM	Apollo	4/17/2007	275	95	98	102	2.0	4.1
Rio Grande at La Joya, NM	Hermes	4/17/2007	272	80	87	94	3.4	11.4
Rio Grande near San Antonio, NM	Nike	4/17/2007	289	88	95	106	4.5	20.2
Rio Grande near San Antonio, NM	Homer	4/17/2007	276	53	91	97	6.2	38.4

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 2								
Rio Grande at Bernalillo, NM	Apollo	10/26/2007	548	98	104	115	5.7	32.7
Rio Grande at Bernalillo, NM	Phoebe	10/26/2007	548	82	90	101	4.5	20.5
Rio Grande at Alameda, NM	Athena	10/26/2007	548	52	73	111	16.2	263.6
Rio Grande at Alameda, NM	Hermes	10/26/2007	378	51	78	93	8.7	75.6
Rio Grande at Los Padillas, NM	Nike	10/26/2007	563	52	91	115	12.3	150.9
Rio Grande at Los Padillas, NM	Marge	10/26/2007	563	75	86	101	6.4	41.4
Rio Grande at Los Lunas, NM	Nike	10/22/2007	371	75	98	130	12.8	164.1
Rio Grande at Los Lunas, NM	Hermes	10/22/2007	136	62	79	101	9.8	95.2
Rio Grande at La Joya, NM	Athena	10/22/2007	374	86	93	106	5.5	29.9
Rio Grande at La Joya, NM	Marge	10/22/2007	374	79	87	98	4.3	18.6
Rio Grande near San Antonio, NM	Apollo	10/22/2007	377	55	87	106	14.2	200.5
Rio Grande near San Antonio, NM	Phoebe	10/22/2007	377	77	89	102	5.9	35.0
Rio Grande at Bernalillo, NM	Nike	1/26/2008	459	89	100	115	7.0	49.0
Rio Grande at Bernalillo, NM	Marge	1/26/2008	459	81	90	103	5.8	33.4
Rio Grande at Alameda, NM	Apollo	1/26/2008	460	90	100	107	3.5	12.6
Rio Grande at Alameda, NM	Phoebe	1/26/2008	446	50	91	106	12.0	143.5
Rio Grande at Los Padillas, NM	Athena	1/26/2008	459	92	97	105	3.4	11.5
Rio Grande at Los Padillas, NM	Hermes	1/26/2008	388	51	73	91	10.7	114.5
Rio Grande at Los Lunas, NM	Athena	1/24/2008	199	83	96	103	3.7	13.3

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Los Lunas, NM	Phoebe	1/24/2008	199	91	96	100	1.9	3.6
Rio Grande at La Joya, NM	Nike	1/22/2008	357	89	93	99	2.4	5.8
Rio Grande at La Joya, NM	Marge	1/22/2008	357	79	87	93	2.4	5.9
Rio Grande near San Antonio, NM	Apollo	1/22/2008	371	93	98	105	2.5	6.5
Rio Grande near San Antonio, NM	Hermes	1/22/2008	296	50	91	98	7.3	53.6
Rio Grande at Bernalillo, NM	Apollo	4/11/2008	484	93	99	106	3.2	10.4
Rio Grande at Bernalillo, NM	Hermes	4/11/2008	100	50	65	90	11.8	139.2
Rio Grande at Alameda, NM	Athena	4/11/2008	480	88	103	121	8.0	64.6
Rio Grande at Alameda, NM	Marge	4/11/2008	462	52	82	96	6.8	46.5
Rio Grande at Los Padillas, NM	Nike	4/11/2008	491	89	97	109	5.3	28.5
Rio Grande at Los Padillas, NM	Phoebe	4/11/2008	500	70	91	104	9.3	86.9
Rio Grande at Los Lunas, NM	Athena	4/7/2008	164	50	76	102	15.0	224.0
Rio Grande at Los Lunas, NM	Hermes	4/7/2008	59	50	62	80	10.5	110.7
Rio Grande at La Joya, NM	Apollo	4/7/2008	273	50	94	100	5.4	29.2
Rio Grande at La Joya, NM	Hermes	4/7/2008	252	51	73	78	4.3	18.8
Rio Grande near San Antonio, NM	Nike	4/7/2008	287	93	95	100	2.1	4.5
Rio Grande at Bernalillo, NM	Phoebe	7/11/2008	561	78	87	98	4.9	23.8
Rio Grande at Alameda, NM	Athena	7/11/2008	523	50	70	105	16.9	286.6
Rio Grande at Alameda, NM	Hermes	7/11/2008	549	57	82	92	6.6	44.1
Rio Grande at Los Padillas, NM	Marge	7/11/2008	146	50	81	95	12.8	163.2

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Los Lunas, NM	Marge	7/7/2008	270	77	84	91	3.4	11.8
Rio Grande at La Joya, NM	Athena	7/7/2008	222	50	58	92	9.3	86.1
Rio Grande at La Joya, NM	Phoebe	7/7/2008	104	50	70	94	15.5	241.4
Rio Grande near San Antonio, NM	Apollo	7/7/2008	381	88	103	118	6.3	39.2
Rio Grande near San Antonio, NM	Hermes	7/7/2008	26	52	76	96	16.5	272.6
Water Quality Summary by Season								
Site Name	Season of Deployment		N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring		612	50	92	106	14.6	214.4
Rio Grande at Alameda, NM	Spring		1,917	50	91	121	13.6	185.5
Rio Grande at Los Padillas, NM	Spring		1,926	50	84	109	13.7	186.4
Rio Grande at Los Lunas, NM	Spring		379	50	77	102	14.7	216.9
Rio Grande at La Joya, NM	Spring		1,072	50	88	102	10.0	100.4
Rio Grande near San Antonio, NM	Spring		852	53	93	106	4.9	24.2
Rio Grande at Bernalillo, NM	Summer		1,224	50	84	115	14.9	223.4
Rio Grande at Alameda, NM	Summer		1,581	50	79	105	14.2	203.1
Rio Grande at Los Padillas, NM	Summer		146	50	81	95	12.8	163.2
Rio Grande at Los Lunas, NM	Summer		635	77	98	143	15.7	245.8
Rio Grande at La Joya, NM	Summer		700	50	81	116	21.2	450.5
Rio Grande near San Antonio, NM	Summer		708	50	91	120	17.9	319.1
Rio Grande at Bernalillo, NM	Fall		1,932	82	97	115	6.7	45.5

Table 10. Summary statistics for oxygen saturation in water by sample year, date of deployment, season, and site listed from upstream to downstream. [Oxygen saturation in percent; N, number of observations; Min*, minimum of the censored data; Max, maximum; Std.Dev., standard deviation; Var., variation. See narrative text for information on device name. "Nike," "Athena," and "Apollo" are Troll 9500s by In-Situ, Inc. and used optical sensors; "Hermes," "Homer," "Marge," and "Phoebe" are Sondes by Hydrolab, Inc. and used membrane electrodes. Note: Oxygen saturations were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Water Quality Device "Name"	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Fall		1,608	51	81	111	14.4	206.3
Rio Grande at Los Padillas, NM	Fall		2,928	50	86	115	11.5	132.3
Rio Grande at Los Lunas, NM	Fall		1,462	50	82	130	13.7	188.4
Rio Grande at La Joya, NM	Fall		1,293	50	89	106	8.9	78.3
Rio Grande near San Antonio, NM	Fall		754	55	88	106	10.9	118.8
Rio Grande at Bernalillo, NM	Winter		1,661	81	97	115	6.7	45.5
Rio Grande at Alameda, NM	Winter		1,145	50	94	107	9.9	98.6
Rio Grande at Los Padillas, NM	Winter		1,602	51	93	111	12.9	167.7
Rio Grande at Los Lunas, NM	Winter		938	58	92	103	5.7	32.0
Rio Grande at La Joya, NM	Winter		1,308	50	87	99	9.5	91.2
Rio Grande near San Antonio, NM	Winter		1,709	50	98	111	6.4	41.6
Water Quality Summary by Site								
Site Name	(Site # upstream to down)		N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1		5,429	50	93	115	11.5	132.2
Rio Grande at Alameda, NM	2		6,251	50	86	121	14.7	216.0
Rio Grande at Los Padillas, NM	3		6,602	50	87	115	13.0	169.2
Rio Grande at Los Lunas, NM	4		3,414	50	87	143	14.5	209.1
Rio Grande at La Joya, NM	5		4,373	50	87	116	12.4	153.4
Rio Grande near San Antonio, NM	6		4,023	50	94	120	10.7	114.4
All Rio Grande Sites	All		30,092	50	89	143	13.30	176.8

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $gO_2/m^2/day$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1							
Rio Grande at Bernalillo, NM	7/21/2006	8	-37	-17.9	1	12.5	156.7
Rio Grande at Alameda, NM	7/21/2006	7	-81	-32.1	-7	28.7	823.9
Rio Grande at Los Lunas, NM	7/17/2006	4	-1	-0.1	0	0.4	0.2
Rio Grande at La Joya, NM	7/17/2006	4	-13	-10.8	-9	1.6	2.5
Rio Grande near San Antonio, NM	7/17/2006	4	-21	-12.4	-4	7.4	54.3
Rio Grande at Bernalillo, NM	10/6/2006	9	-7	-4.3	-3	1.7	3.0
Rio Grande at Alameda, NM	10/6/2006	12	-60	-28.8	-1	20.3	412.9
Rio Grande at Los Padillas, NM	10/6/2006	24	-77	-24.2	-3	20.1	406.0
Rio Grande at Los Lunas, NM	10/13/2006	12	-64	-25.8	-11	18.0	323.8
Rio Grande at La Joya, NM	10/13/2006	10	-52	-23.4	-3	17.2	294.4
Rio Grande at Bernalillo, NM	1/22/2007	8	-5	-1.4	2	2.9	8.5
Rio Grande at Alameda, NM	1/22/2007	4	-47	-21.7	-6	18.2	332.6
Rio Grande at Los Padillas, NM	1/22/2007	8	-3	-0.9	2	2.1	4.4
Rio Grande at Los Lunas, NM	1/26/2007	6	-14	-8.5	-6	3.2	10.1
Rio Grande at La Joya, NM	1/26/2007	7	-37	-14.4	-6	12.2	149.4
Rio Grande near San Antonio, NM	1/26/2007	12	-61	-7.8	0	17.3	299.6
Rio Grande at Bernalillo, NM	4/20/2007	7	-72	-59.1	-43	9.6	91.7
Rio Grande at Alameda, NM	4/20/2007	14	-61	-20.8	0	21.8	477.1
Rio Grande at Los Padillas, NM	4/20/2007	14	-49	-25.6	-2	14.5	209.3
Rio Grande at Los Lunas, NM	4/13/2007	3	-47	-22.2	-9	21.1	443.8

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $gO_2/m^2/day$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at La Joya, NM	4/17/2007	5	-13	-7.4	-2	4.8	22.6
Rio Grande near San Antonio, NM	4/17/2007	6	-9	-7.7	-5	1.9	3.5
Water Quality Summary by Sampling Year 2							
Rio Grande at Bernalillo, NM	10/26/2007	12	-9	-4.0	1	4.8	22.7
Rio Grande at Alameda, NM	10/26/2007	12	-52	-30.0	-15	12.9	165.7
Rio Grande at Los Padillas, NM	10/26/2007	12	-22	-13.7	-6	5.4	28.8
Rio Grande at Los Lunas, NM	10/22/2007	8	-52	-23.0	-4	21.1	445.4
Rio Grande at La Joya, NM	10/22/2007	8	-45	-30.2	-14	10.0	99.6
Rio Grande near San Antonio, NM	10/22/2007	8	-41	-15.0	-5	11.4	129.9
Rio Grande at Bernalillo, NM	1/26/2008	10	-13	-5.7	2	6.2	38.2
Rio Grande at Alameda, NM	1/26/2008	10	-19	-4.4	1	7.6	57.9
Rio Grande at Los Padillas, NM	1/26/2008	10	-103	-27.1	-3	31.2	975.8
Rio Grande at Los Lunas, NM	1/24/2008	4	-3	-3.1	-3	0.4	0.1
Rio Grande at La Joya, NM	1/22/2008	8	-9	-7.0	-5	1.9	3.6
Rio Grande near San Antonio, NM	1/22/2008	8	-60	-12.5	-3	19.5	378.8
Rio Grande at Bernalillo, NM	4/11/2008	9	-81	-31.6	0	37.1	1374.6
Rio Grande at Alameda, NM	4/11/2008	10	-22	-10.5	-1	9.0	80.3
Rio Grande at Los Padillas, NM	4/11/2008	10	-19	-6.9	-4	4.3	18.8
Rio Grande at Los Lunas, NM	4/7/2008	8	-64	-41.9	-13	19.3	372.8
Rio Grande at La Joya, NM	4/7/2008	6	-25	-13.4	-4	8.4	70.2
Rio Grande near San Antonio, NM	4/7/2008	3	-6	-6.1	-6	0.3	0.1

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $gO_2/m^2/day$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	7/11/2008	6	-18	-14.3	-11	2.6	6.7
Rio Grande at Alameda, NM	7/11/2008	12	-37	-17.6	-6	10.0	100.4
Rio Grande at Los Padillas, NM	7/11/2008	6	-57	-42.8	-11	16.3	264.9
Rio Grande at Los Lunas, NM	7/7/2008	3	-13	-12.0	-11	1.3	1.7
Rio Grande at La Joya, NM	7/7/2008	7	-66	-40.9	-22	16.4	268.7
Rio Grande near San Antonio, NM	7/7/2008	4	-3	-1.2	1	1.8	3.3
Water Quality Summary by Season							
Site Name	Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring	16	-81	-43.6	0	31.1	967.8
Rio Grande at Alameda, NM	Spring	24	-61	-16.5	0	18.1	328.2
Rio Grande at Los Padillas, NM	Spring	24	-49	-17.8	-2	14.6	214.1
Rio Grande at Los Lunas, NM	Spring	11	-64	-36.5	-9	20.8	434.5
Rio Grande at La Joya, NM	Spring	11	-25	-10.6	-2	7.3	53.9
Rio Grande near San Antonio, NM	Spring	9	-9	-7.2	-5	1.7	2.9
Rio Grande at Bernalillo, NM	Summer	14	-37	-16.3	1	9.5	90.4
Rio Grande at Alameda, NM	Summer	19	-81	-22.9	-6	19.7	387.5
Rio Grande at Los Padillas, NM	Summer	6	-57	-42.8	-11	16.3	264.9
Rio Grande at Los Lunas, NM	Summer	7	-13	-5.2	0	6.4	41.3
Rio Grande at La Joya, NM	Summer	11	-66	-30.0	-9	19.8	392.3
Rio Grande near San Antonio, NM	Summer	8	-21	-6.8	1	7.8	60.7
Rio Grande at Bernalillo, NM	Fall	21	-9	-4.1	1	3.7	13.7

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $gO_2/m^2/day$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Alameda, NM	Fall	24	-60	-29.4	-1	16.6	277.1
Rio Grande at Los Padillas, NM	Fall	36	-77	-20.7	-3	17.4	301.2
Rio Grande at Los Lunas, NM	Fall	20	-64	-24.7	-4	18.8	353.4
Rio Grande at La Joya, NM	Fall	18	-52	-26.4	-3	14.5	209.1
Rio Grande near San Antonio, NM	Fall	8	-41	-15.0	-5	11.4	129.9
Rio Grande at Bernalillo, NM	Winter	18	-13	-3.8	2	5.3	28.5
Rio Grande at Alameda, NM	Winter	14	-47	-9.4	1	13.5	182.3
Rio Grande at Los Padillas, NM	Winter	18	-103	-15.4	2	26.4	698.5
Rio Grande at Los Lunas, NM	Winter	10	-14	-6.3	-3	3.7	13.6
Rio Grande at La Joya, NM	Winter	15	-37	-10.5	-5	9.0	80.2
Rio Grande near San Antonio, NM	Winter	20	-61	-9.7	0	17.9	318.8

Table 11. Summary statistics for 24-hour ecosystem respiration by sample year, date of deployment, season, and site listed from upstream to downstream. [Ecosystem respiration in $gO_2/m^2/day$; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. Ecosystem Respiration statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Site							
Site Name	Site Number	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1	69	-81	-15.7	2	22.5	504.6
Rio Grande at Alameda, NM	2	81	-81	-20.6	1	18.5	342.2
Rio Grande at Los Padillas, NM	3	84	-103	-20.3	2	19.7	389.0
Rio Grande at Los Lunas, NM	4	48	-64	-20.7	0	19.7	388.3
Rio Grande at La Joya, NM	5	55	-66	-19.6	-2	15.7	246.2
Rio Grande near San Antonio, NM	6	45	-61	-9.6	1	13.3	176.5
All Rio Grande Sites	All	382	-103	-18.2	2	19.1	363.0

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO2/m2/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Water Quality Summary by Sampling Year 1							
Rio Grande at Bernalillo, NM	7/21/2006	5	4.9	1.8	8.4	7.1	2.7
Rio Grande at Alameda, NM	7/21/2006	4	4.9	1.4	8.8	11.3	3.4
Rio Grande at Los Lunas, NM	7/17/2006	3	2.2	1.3	3.1	0.9	0.9
Rio Grande at La Joya, NM	7/17/2006	3	4.2	3.3	4.9	0.7	0.9
Rio Grande near San Antonio, NM	7/17/2006	3	3.7	2.6	4.9	1.4	1.2
Rio Grande at Bernalillo, NM	10/6/2006	7	1.7	0.9	2.0	0.2	0.4
Rio Grande at Alameda, NM	10/6/2006	5	1.5	1.0	1.8	0.1	0.3
Rio Grande at Los Padillas, NM	10/6/2006	13	2.1	1.1	3.2	0.5	0.7
Rio Grande at Los Lunas, NM	10/13/2006	9	2.6	0.8	7.7	4.9	2.2
Rio Grande at La Joya, NM	10/13/2006	5	1.1	0.3	2.1	0.6	0.7
Rio Grande at Bernalillo, NM	1/22/2007	6	5.2	3.9	6.4	1.2	1.1
Rio Grande at Alameda, NM	1/22/2007	2	9.0	8.2	9.7	1.2	1.1
Rio Grande at Los Padillas, NM	1/22/2007	6	2.0	1.7	2.2	0.0	0.2
Rio Grande at Los Lunas, NM	1/26/2007	4	1.7	1.3	2.2	0.2	0.4
Rio Grande at La Joya, NM	1/26/2007	3	1.2	1.1	1.5	0.1	0.3
Rio Grande near San Antonio, NM	1/26/2007	8	1.8	1.1	2.5	0.2	0.5
Rio Grande at Bernalillo, NM	4/20/2007	0					
Rio Grande at Alameda, NM	4/20/2007	5	1.1	0.5	2.0	0.3	0.6
Rio Grande at Los Padillas, NM	4/20/2007	6	1.7	0.9	3.6	0.9	1.0
Rio Grande at Los Lunas, NM	4/13/2007	0					

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO2/m2/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at La Joya, NM	4/17/2007	4	1.7	1.0	2.3	0.3	0.6
Rio Grande near San Antonio, NM	4/17/2007	4	1.9	1.7	2.2	0.0	0.2
Water Quality Summary by Sampling Year 2							
Rio Grande at Bernalillo, NM	10/26/2007	10	3.3	2.7	3.8	0.2	0.4
Rio Grande at Alameda, NM	10/26/2007	9	7.5	2.1	17.6	30.5	5.5
Rio Grande at Los Padillas, NM	10/26/2007	9	4.9	3.4	7.0	1.3	1.1
Rio Grande at Los Lunas, NM	10/22/2007	3	8.4	7.0	9.8	1.9	1.4
Rio Grande at La Joya, NM	10/22/2007	6	2.1	1.2	2.9	0.4	0.6
Rio Grande near San Antonio, NM	10/22/2007	5	3.4	2.2	4.0	0.6	0.8
Rio Grande at Bernalillo, NM	1/26/2008	8	9.1	6.2	12.9	4.1	2.0
Rio Grande at Alameda, NM	1/26/2008	7	3.4	2.1	5.1	1.5	1.2
Rio Grande at Los Padillas, NM	1/26/2008	7	2.0	1.2	3.1	0.7	0.8
Rio Grande at Los Lunas, NM	1/24/2008	2	9.5	8.0	11.0	4.6	2.1
Rio Grande at La Joya, NM	1/22/2008	6	1.8	1.2	2.2	0.2	0.4
Rio Grande near San Antonio, NM	1/22/2008	3	2.5	1.3	3.1	1.1	1.0
Rio Grande at Bernalillo, NM	4/11/2008	4	3.4	2.5	4.2	0.6	0.8
Rio Grande at Alameda, NM	4/11/2008	4	9.5	7.1	11.7	4.5	2.1
Rio Grande at Los Padillas, NM	4/11/2008	8	3.6	2.4	5.7	1.2	1.1
Rio Grande at Los Lunas, NM	4/7/2008	4	3.8	3.4	4.3	0.2	0.5
Rio Grande at La Joya, NM	4/7/2008	4	1.0	0.4	1.8	0.4	0.6
Rio Grande near San Antonio, NM	4/7/2008	2	1.6	0.9	2.2	0.9	1.0

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO2/m2/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at Bernalillo, NM	7/11/2008	5	4.4	2.9	5.7	1.1	1.0
Rio Grande at Alameda, NM	7/11/2008	8	4.1	1.5	6.9	4.7	2.2
Rio Grande at Los Padillas, NM	7/11/2008	0					
Rio Grande at Los Lunas, NM	7/7/2008	2	3.4	3.1	3.6	0.1	0.4
Rio Grande at La Joya, NM	7/7/2008	0					
Rio Grande near San Antonio, NM	7/7/2008	2	4.2	3.9	4.4	0.1	0.3
Water Quality Summary by Season							
Site Name	Season	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at Bernalillo, NM	Spring	4	3.4	2.5	4.2	0.6	0.8
Rio Grande at Alameda, NM	Spring	9	4.8	0.5	11.7	21.3	4.6
Rio Grande at Los Padillas, NM	Spring	14	2.8	0.9	5.7	2.0	1.4
Rio Grande at Los Lunas, NM	Spring	4	3.8	3.4	4.3	0.2	0.5
Rio Grande at La Joya, NM	Spring	8	1.3	0.4	2.3	0.4	0.7
Rio Grande near San Antonio, NM	Spring	6	1.8	0.9	2.2	0.2	0.5
Rio Grande at Bernalillo, NM	Summer	10	4.7	1.8	8.4	3.7	1.9
Rio Grande at Alameda, NM	Summer	12	4.4	1.4	8.8	6.2	2.5
Rio Grande at Los Padillas, NM	Summer	0					
Rio Grande at Los Lunas, NM	Summer	5	2.7	1.3	3.6	0.9	0.9
Rio Grande at La Joya, NM	Summer	3	4.2	3.3	4.9	0.7	0.9
Rio Grande near San Antonio, NM	Summer	5	3.9	2.6	4.9	0.8	0.9
Rio Grande at Bernalillo, NM	Fall	17	2.6	0.9	3.8	0.8	0.9

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO2/m2/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at Alameda, NM	Fall	14	5.4	1.0	17.6	27.8	5.3
Rio Grande at Los Padillas, NM	Fall	22	3.2	1.1	7.0	2.9	1.7
Rio Grande at Los Lunas, NM	Fall	12	4.1	0.8	9.8	10.8	3.3
Rio Grande at La Joya, NM	Fall	11	1.6	0.3	2.9	0.7	0.8
Rio Grande near San Antonio, NM	Fall	5	3.4	2.2	4.0	0.6	0.8
Rio Grande at Bernalillo, NM	Winter	14	7.4	3.9	12.9	6.6	2.6
Rio Grande at Alameda, NM	Winter	9	4.6	2.1	9.7	7.4	2.7
Rio Grande at Los Padillas, NM	Winter	13	2.0	1.2	3.1	0.4	0.6
Rio Grande at Los Lunas, NM	Winter	6	4.3	1.3	11.0	17.2	4.1
Rio Grande at La Joya, NM	Winter	9	1.6	1.1	2.2	0.2	0.5
Rio Grande near San Antonio, NM	Winter	11	2.0	1.1	3.1	0.5	0.7

Table 12. Summary statistics for gross primary productivity by sample year, date of deployment, season, and site listed from upstream to downstream. [Gross primary productivity in gO2/m2/day; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variation. Gross primary productivity statistics were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Average	Min*	Max	Var.	Std.Dev.
Water Quality Summary by Site							
Site Name	Site Number	N	Average	Min*	Max	Var.	Std.Dev.
Rio Grande at Bernalillo, NM	1	45	4.6	0.9	12.9	7.2	2.7
Rio Grande at Alameda, NM	2	44	4.8	0.5	17.6	15.5	3.9
Rio Grande at Los Padillas, NM	3	49	2.8	0.9	7.0	2.1	1.5
Rio Grande at Los Lunas, NM	4	27	3.8	0.8	11.0	8.4	2.9
Rio Grande at La Joya, NM	5	31	1.8	0.3	4.9	1.1	1.1
Rio Grande near San Antonio, NM	6	27	2.6	0.9	4.9	1.2	1.1
All Rio Grande Sites	All	223	3.5	0.3	17.6	7.4	2.7

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Sampling Year 1							
Rio Grande at Bernalillo, NM	7/21/2006	5	-0.8	0.1	2.7	1.5	2.2
Rio Grande at Alameda, NM	7/21/2006	4	-0.8	-0.3	-0.1	0.3	0.1
Rio Grande at Los Lunas, NM	7/17/2006	3	-8.3	1.9	9.9	9.3	86.9
Rio Grande at La Joya, NM	7/17/2006	3	-0.5	-0.4	-0.4	0.1	0.0
Rio Grande near San Antonio, NM	7/17/2006	3	-0.7	-0.5	-0.3	0.2	0.1
Rio Grande at Bernalillo, NM	10/6/2006	7	-0.7	-0.5	-0.1	0.2	0.1
Rio Grande at Alameda, NM	10/6/2006	5	-1.4	-0.5	0.0	0.6	0.4
Rio Grande at Los Padillas, NM	10/6/2006	13	-1.0	-0.2	-0.1	0.3	0.1
Rio Grande at Los Lunas, NM	10/13/2006	9	-0.5	-0.1	0.0	0.1	0.0
Rio Grande at La Joya, NM	10/13/2006	5	-0.5	-0.2	0.0	0.2	0.0
Rio Grande at Bernalillo, NM	1/22/2007	6	-4.7	0.3	7.3	4.2	17.6
Rio Grande at Alameda, NM	1/22/2007	2	-1.3	-1.1	-0.8	0.3	0.1
Rio Grande at Los Padillas, NM	1/22/2007	6	-0.9	0.5	3.2	1.6	2.7
Rio Grande at Los Lunas, NM	1/26/2007	4	-0.3	-0.2	-0.2	0.0	0.0
Rio Grande at La Joya, NM	1/26/2007	3	-0.3	-0.2	-0.2	0.1	0.0
Rio Grande near San Antonio, NM	1/26/2007	8	-4.9	0.0	11.7	4.9	24.4
Rio Grande at Bernalillo, NM	4/20/2007	0					
Rio Grande at Alameda, NM	4/20/2007	5	-2.5	-1.0	-0.1	1.1	1.2
Rio Grande at Los Padillas, NM	4/20/2007	6	-0.2	-0.1	-0.1	0.0	0.0

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Los Lunas, NM	4/13/2007	0					
Rio Grande at La Joya, NM	4/17/2007	4	-0.6	-0.4	-0.2	0.2	0.0
Rio Grande near San Antonio, NM	4/17/2007	4	-0.4	-0.3	-0.2	0.1	0.0
Water Quality Summary by Sampling Year 2							
Rio Grande at Bernalillo, NM	10/26/2007	10	-0.4	4.9	20.7	7.5	56.1
Rio Grande at Alameda, NM	10/26/2007	9	-0.5	-0.3	0.0	0.1	0.0
Rio Grande at Los Padillas, NM	10/26/2007	9	-0.9	-0.5	-0.3	0.2	0.1
Rio Grande at Los Lunas, NM	10/22/2007	3	-2.0	-1.5	-1.0	0.5	0.3
Rio Grande at La Joya, NM	10/22/2007	6	-0.2	-0.1	0.0	0.1	0.0
Rio Grande near San Antonio, NM	10/22/2007	5	-0.8	-0.4	-0.2	0.2	0.0
Rio Grande at Bernalillo, NM	1/26/2008	8	-5.5	6.8	52.0	18.6	346.5
Rio Grande at Alameda, NM	1/26/2008	7	-8.3	2.7	20.9	9.2	85.3
Rio Grande at Los Padillas, NM	1/26/2008	7	-0.4	-0.2	-0.1	0.1	0.0
Rio Grande at Los Lunas, NM	1/24/2008	2	-3.4	-2.9	-2.4	0.7	0.5
Rio Grande at La Joya, NM	1/22/2008	6	-0.4	-0.3	-0.1	0.1	0.0
Rio Grande near San Antonio, NM	1/22/2008	3	-0.9	-0.7	-0.4	0.3	0.1
Rio Grande at Bernalillo, NM	4/11/2008	4	-11.0	-4.1	-0.9	4.6	21.3
Rio Grande at Alameda, NM	4/11/2008	4	-6.1	-4.9	-3.4	1.2	1.5
Rio Grande at Los Padillas, NM	4/11/2008	8	-0.9	-0.7	-0.3	0.2	0.0
Rio Grande at Los Lunas, NM	4/7/2008	4	-0.1	-0.1	-0.1	0.0	0.0
Rio Grande at La Joya, NM	4/7/2008	4	-0.4	-0.2	0.0	0.2	0.0

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande near San Antonio, NM	4/7/2008	2	-0.4	-0.3	-0.2	0.2	0.0
Rio Grande at Bernalillo, NM	7/11/2008	5	-0.4	-0.3	-0.2	0.1	0.0
Rio Grande at Alameda, NM	7/11/2008	8	-1.0	-0.4	-0.1	0.3	0.1
Rio Grande at Los Padillas, NM	7/11/2008	0					
Rio Grande at Los Lunas, NM	7/7/2008	2	-0.3	-0.3	-0.2	0.0	0.0
Rio Grande at La Joya, NM	7/7/2008	0					
Rio Grande near San Antonio, NM	7/7/2008	2	-5.5	-3.4	-1.4	2.9	8.4
Water Quality Summary by Season							
Site Name	Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Spring	4	-11.0	-4.1	-0.9	4.6	21.3
Rio Grande at Alameda, NM	Spring	9	-6.1	-2.7	-0.1	2.3	5.4
Rio Grande at Los Padillas, NM	Spring	14	-0.9	-0.4	-0.1	0.3	0.1
Rio Grande at Los Lunas, NM	Spring	4	-0.1	-0.1	-0.1	0.0	0.0
Rio Grande at La Joya, NM	Spring	8	-0.6	-0.3	0.0	0.2	0.0
Rio Grande near San Antonio, NM	Spring	6	-0.4	-0.3	-0.2	0.1	0.0

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	Summer	10	-0.8	-0.1	2.7	1.0	1.0
Rio Grande at Alameda, NM	Summer	12	-1.0	-0.4	-0.1	0.3	0.1
Rio Grande at Los Padillas, NM	Summer	0					
Rio Grande at Los Lunas, NM	Summer	5	-8.3	1.0	9.9	6.7	44.8
Rio Grande at La Joya, NM	Summer	3	-0.5	-0.4	-0.4	0.1	0.0
Rio Grande near San Antonio, NM	Summer	5	-5.5	-1.6	-0.3	2.2	4.7
Rio Grande at Bernalillo, NM	Fall	17	-0.7	2.7	20.7	6.3	39.1
Rio Grande at Alameda, NM	Fall	14	-1.4	-0.4	0.0	0.4	0.1
Rio Grande at Los Padillas, NM	Fall	22	-1.0	-0.3	-0.1	0.3	0.1
Rio Grande at Los Lunas, NM	Fall	12	-2.0	-0.5	0.0	0.7	0.4
Rio Grande at La Joya, NM	Fall	11	-0.5	-0.1	0.0	0.1	0.0
Rio Grande near San Antonio, NM	Fall	5	-0.8	-0.4	-0.2	0.2	0.0
Rio Grande at Bernalillo, NM	Winter	14	-5.5	4.0	52.0	14.3	204.5
Rio Grande at Alameda, NM	Winter	9	-8.3	1.9	20.9	8.2	66.8
Rio Grande at Los Padillas, NM	Winter	13	-0.9	0.1	3.2	1.1	1.3
Rio Grande at Los Lunas, NM	Winter	6	-3.4	-1.1	-0.2	1.4	2.0
Rio Grande at La Joya, NM	Winter	9	-0.4	-0.2	-0.1	0.1	0.0
Rio Grande near San Antonio, NM	Winter	11	-4.9	-0.2	11.7	4.1	17.2

Table 13. Summary statistics for the ratio of gross primary productivity to ecosystem respiration (PR Ratios) by sample year, date of deployment, season, and site listed from upstream to downstream. [Values are PR Ratios; N, number of observations; Min*, minimum of the censored values; Max, maximum; Std. Dev., standard deviation; Var., variance. PR Ratios were censored when probes were considered covered with sediment (i.e., identified by less than 50 percent oxygen saturation)].

Site Name	Date of Device Deployment or Season	N	Min*	Average	Max	Std.Dev.	Var.
Water Quality Summary by Site							
Site Name	Site Number	N	Min*	Average	Max	Std.Dev.	Var.
Rio Grande at Bernalillo, NM	1	45	-11.0	1.9	52.0	9.1	82.1
Rio Grande at Alameda, NM	2	44	-8.3	-0.4	20.9	4.0	15.7
Rio Grande at Los Padillas, NM	3	49	-1.0	-0.2	3.2	0.7	0.4
Rio Grande at Los Lunas, NM	4	27	-8.3	-0.3	9.9	2.8	8.0
Rio Grande at La Joya, NM	5	31	-0.6	-0.2	0.0	0.2	0.0
Rio Grande near San Antonio, NM	6	27	-5.5	-0.5	11.7	2.8	7.6
All Rio Grande Sites	All	223	-11.0	0.1	52.0	4.7	22.0

Note that at Bernalillo, Alameda & San Antonio in October 2006; and Los Lunas in April 2007, photography was not conducted. Some photos are distorted.



Plate 1. Rio Grande at Bernalillo, NM in July 2006.



Plate 2. Rio Grande at Alameda, NM in July 2006.



Plate 3. Rio Grande at Los Padillas, NM in July 2006.



Plate 4. Rio Grande at Los Lunas, NM in July 2006.



Plate 5. Rio Grande at La Joya, NM in July 2006.



Plate 6. Rio Grande near San Antonio, NM in July 2006.



Plate 7. Rio Grande at Los Padillas, NM in October 2006.



Plate 8. Rio Grande at Los Lunas, NM in October 2006.



Plate 9. Rio Grande at La Joya, NM in October 2006.



Plate 10. Rio Grande at Bernalillo, NM in January 2007.



Plate 11. Rio Grande at Alameda, NM in January 2007.



Plate 12. Rio Grande at Los Padillas, NM in January 2007.



Plate 13. Rio Grande at Los Lunas, NM in January 2007.



Plate 14. Rio Grande at La Joya, NM in January 2007.



Plate 15. Rio Grande near San Antonio, NM in January 2007.



Plate 16. Rio Grande at Bernalillo, NM in April 2007.



Plate 17. Rio Grande at Alameda, NM in April 2007.



Plate 18. Rio Grande at Los Padillas, NM in April 2007.



Plate 19. Rio Grande at La Joya, NM in April 2007.



Plate 20. Rio Grande near San Antonio, NM in April 2007.



Plate 21. Rio Grande at Bernalillo, NM in October 2007.



Plate 22. Rio Grande at Alameda, NM in October 2007.



Plate 23. Rio Grande at Los Padillas, NM in October 2007.



Plate 24. Rio Grande at Los Lunas, NM in October 2007.



Plate 25. Rio Grande at La Joya, NM in October 2007.



Plate 26. Rio Grande near San Antonio, NM in October 2007.



Plate 27. Rio Grande at Bernalillo, NM in January 2008.



Plate 28. Rio Grande at Alameda, NM in January 2008.



Plate 29. Rio Grande at Los Padillas, NM in January 2008.



Plate 30. Rio Grande at Los Lunas, NM in January 2008.



Plate 31. Rio Grande at La Joya, NM in January 2008.



Plate 32. Rio Grande near San Antonio, NM in January 2008.



Plate 33. Rio Grande at Bernalillo, NM in April 2008.



Plate 34. Rio Grande at Alameda, NM in April 2008.



Plate 35. Rio Grande at Los Padillas, NM in April 2008.



Plate 36. Rio Grande at Los Lunas, NM in April 2008.



Plate 37. Rio Grande at La Joya, NM in April 2008.



Plate 38. Rio Grande near San Antonio, NM in April 2008.



Plate 39. Rio Grande at Bernalillo, NM in July 2008.



Plate 40. Rio Grande at Alameda, NM in July 2008.



Plate 41. Rio Grande at Los Padillas, NM in July 2008.



Plate 42. Rio Grande at Los Lunas, NM in July 2008.



Plate 43. Rio Grande at La Joya, NM in July 2008.

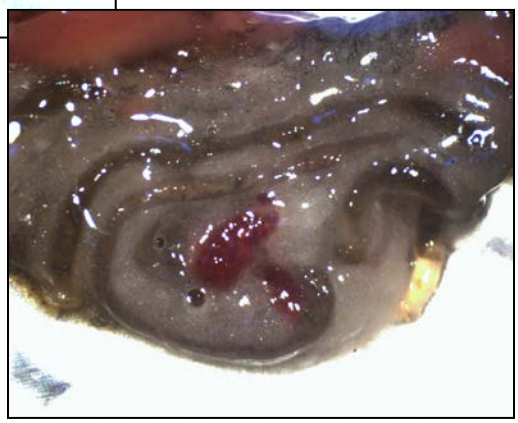


Plate 44. Rio Grande near San Antonio, NM in July 2008.

Chapter 2. Rio Grande Silvery Minnow Health Assessment







Report prepared by

Anne P. Davis and Joel D. Lusk

U.S. Fish and Wildlife Service
New Mexico Ecological Services Field Office
2105 Osuna Road NE
Albuquerque, NM 87113

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Cover photography by A.Davis/USFWS: 1) Severely eroded caudal fin; 2) anal fin lesion; and, 3) 50 percent mesenteric fat condition in Rio Grande silvery minnow.

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INTRODUCTION

Fish health assessments are a standard system of observation of fish tissues and organs and measurements during a necropsy that are based methods reported by Goede and Barton (1990), Schmitt et al. (1999), Schmitt and Dethloff (2000), and others. We collected Rio Grande silvery minnow (*Hybognathus amarus*; silvery minnow) at six locations (Table 1) within the Middle Rio Grande (MRG) during July 2006 to April 2007 (Year 1) and October 2007 to July 2008 (Year 2) (Lusk 2012a) for health assessments. We generated a Health Assessment Index (HAI) that was used as a general indicator of fish health (Carlander 1969, 1977; Adams 1990). The HAI utilizes observations of gross external and internal pathological disorders and scoring procedures to rank relative health (Goede 1988, 1989, 1996; Adams et al. 1993). Developed and revised by Goede (1988, 1989, 1996), Adams et al. (1993), and others, this systematic observation and necropsy has been used by scientists in field and hatchery situations (Schmitt et al. 1999; Schmitt and Dethloff 2000) as well as on fish collected from the Rio Grande (Abeyta and Lusk 2004a citing Sykes 2003; Schmitt et al. 2004, 2005, Papoulias et al. 2008). These and similar fish health indices can signify overall health status of the subpopulation sampled. Fish health indices can also be used to reflect the status of organ systems or feeding, which may change due to environmental factors or other stressors (Schmitt et al. 1999).

Review of Fish Health Studies conducted in the Middle Rio Grande

During 1993 to 1995, Carter (1997a, 1997b) used fish health monitoring and assessments to characterize water quality in the Rio Grande. Carter (1997a) reported that the occurrence of anomalies in the fish they collected was less than 2 percent, while fish collected from the Rio Grande near Isleta, New Mexico, had anomaly rates as high as 14 percent. Carter (1997a) concluded that the high percentages of introduced species, the dominance of omnivorous species, and the high incidence of anomalies were indicative of a fish community under chronic stress at the Isleta, New Mexico, location.

During 1997 to 1999, the Service conducted the National Wild Fish Health Survey, which included surveys of pathogens and parasites of silvery minnow and other minnows collected from the Rio Grande. No interpretative report on the pathogen data from Rio Grande fish was published (Knapp and Mueller 2004), however, those fish health observations are available from the National Wild Fish Health Survey Database (available at http://www.fws.gov/wildfishsurvey/database/).

During 1997 and 1998, Schmitt et al. (2004) collected, examined, and analyzed large fish from 10 sites on tributary rivers of the Rio Grande to document temporal and geographic trends in the concentrations of contaminants and to assess contaminant effects on the fish. Schmitt et al. (2004) noted a minimal number of altered biomarkers and few or no elevated contaminant concentrations in fish tissues from their upper Rio Grande sites. However, hepatic activity in some fish was seen as elevated and may have reflected exposure to polycyclic aromatic hydrocarbons (Schmitt et al. 2004).

During 2002 and 2003, Sykes (2003) and Abeyta and Lusk (2004a, 2004b), used fish health assessments of minnows to help characterize the water quality conditions in the MRG. Over 60 percent of the fish observed had shortened opercula and they suggested both environmental and nutritional components to those conditions (Abeyta and Lusk 2004b; Sykes 2003). Minnows that were collected in the winter appeared to be in better condition and feeding more actively than fish collected in the summer or fall (Sykes 2003). However, fish health sampling was too sparse to make definitive conclusions about site or seasonal differences (Sykes 2003). Abeyta and Lusk (2004b) reported a relationship, albeit weak, between whole stream metabolism and several fish health condition indices, suggesting that oxygen dynamics, specifically its overall production and consumption, may have played a role in the health of the minnow community.

In 2005, river intermittency isolated silvery minnows in large pools throughout several miles of the MRG (Caldwell 2005). During this time, silvery minnows were rescued from pools and transported to Dexter Fish Health Unit for examination. Of the fish examined, gill tissues were found to be infested with parasites and kidney tissues were infected with bacteria (P. Hines, Service, written comm. October 13, 2005). The silvery minnows collected from these intermittent pools were considered to be in poor health and moribund. When fish are healthy, both the fish and its protozoan parasites can exist in a symbiotic relationship (Caldwell 2005). However, when fish become stressed, and are in poor health or moribund, this relationship may change quickly to pathogenic (Caldwell 2005). If the environmental conditions change to favor the reproductive potential of protozoan parasites and bacteria (e.g., increased water temperature) or environmental conditions stress fish or compromise their immune system (e.g., low dissolved oxygen, crowding, elevated blood cortisol, elevated ammonia, poor nutritional status, etc.), then the rapid reproduction of these pathogens or increase in the susceptibility of the fish to disease can result in fish mortalities (Caldwell 2005 citing Post 1983).

During 2006, common carp (*Cyprinus carpio*), channel catfish (*Ictalurus punctatus*), and white sucker (*Catostomus commersoni*) samples were taken from the MRG and evaluated for fish health condition (Papoulias et al. 2008). Fish collected near Socorro, New Mexico, had elevated macrophage aggregates (both number and size), elevated vitellogenin concentrations (i.e., egg protein precursors) in male catfish similar to concentrations of vitellogenin levels found in reproductive females, and possibly elevated reproductive hormones. Papoulias et al. (2008) reported that MRG fish had mild to moderate pathological lesions and suggested that the existing environmental conditions may be stressing fish. However, Papoulias et al. (2008) noted that greater numbers of observations would be required to ascertain if elevated vitellogenin levels in MRG fish were related to reproductive stressors or endocrine disrupting chemicals.

During 2006 to 2007, Caldwell et al. (2010) assessed the physiological stress response of rescue practices and river intermittency by measuring changes in blood chemistry and parasite and bacterial burdens in wild silvery minnows and compared those responses to those in silvery minnows collected from a perennial reach (i.e., flowing water) and subjected to similar collection and transport activities. The cumulative effects of intermittency followed by capture and transport resulted in a greater magnitude of

physiological stress response in silvery minnows. The cumulative effects of intermittency as well as exposure within isolated pools elevated the silvery minnow stress response and increased their susceptibility to opportunistic pathogens and mortality.

During Fall 2007, Buhl (2011) exposed silvery minnows in cages at three site treatments in the MRG for 26 days to evaluate their survival, growth, and overall health conditions. Buhl (2011) used a necropsy-based health assessment to characterize and compare the health status of silvery minnows prior to and after in-situ exposures to the site waters. The most common anomalies observed by Buhl (2011) were shortened opercula (96 percent of fish, all rated as slightly shortened) and fin anomalies (attributed to cage artifacts). During the 26-day exposures, the health of the fish deteriorated significantly as evidenced by higher proportions of fish with abnormal fins and the presence of parasites. Tissue collected for histopathological examination revealed numerous macrophage aggregates in ovaries (92 percent), spleen (91 percent), and kidney (74 percent) with a lower prevalence in the testes (20 percent) and liver (15 percent). According to Buhl (2011), fish that are chronically stressed, in poor health, chronically exposed to environmental pollution, or have nutritional deficiencies may tend to have more and larger macrophage aggregates in their tissues. However, the prevalence of macrophage aggregates in silvery minnow tissues exposed to site treatments for 26 days, did not differ statistically among sites, gender, or from those in fish sampled prior to the treatments.

In summary, fish health assessments conducted on fish from the Middle Rio Grande have often observed shortened opercula, and numerous individuals have been reported with health indices that indicated chronic stress, and particularly, the stress of intermittency, which often results in poor health conditions and high parasite loads contributing to the mortality of silvery minnows. Site differences in health conditions were inconclusive or varied by study. Seasonal differences, where observed, suggested fish health conditions declined in summer and improved in winter. Several fish health studies have identified elevated macrophage aggregates in various tissues in fish collected from the Middle Rio Grande. Macrophage aggregates are focal accumulations of immune cells in tissues that, when elevated, are useful for discriminating between fish exposed to degraded water quality conditions. Fish health assessments conducted in the Middle Rio Grande have linked the condition of intermittency and subsequent isolation of fish in pools with degraded water quality and poor silvery minnow health conditions.

METHODS

A maximum of 30 silvery minnows were collected from each of the six sites sampled during two sample years (during July 2006 to April 2007 (Year 1) and October 2007 to July 2008 (Year 2)) for our fish health assessment (Table 1). Lusk (2012a) described the methods of site selection, collection locations, and transport of silvery minnows used in this fish health assessment. Silvery minnows were individually observed, measured, and processed within several hours after capture so that their condition would be representative of site conditions. Silvery minnows were observed using a digital stereomicroscope (Leica Model GZ6 stereomicroscope). Organ conditions and any anomalies were documented photographically using an attached Optronics MagnaFire SP digital camera. A Mettler Toledo balance (Model PR803) was used for mass measurements. The balance was routinely calibrated and checked against known standards. It was accurate to 0.001 g and had a 810 g maximum capacity.

Fish Health Observations and Necropsy Methods

Silvery minnows were subdued and examined using methods described by (Schmitt et al. 1999) as modified below. All observations of external and internal organ condition were recorded on the Fish Health Examination Sheet (Appendix 2A) for each individual silvery minnow observed. All silvery minnows were individually measured for weight (mass in grams [g]) and total length (TL). Total length was determined by laying the succumbed silvery minnow on a ruler marked in millimeters (mm). External examination began with the observation of the head, eyes, and body surface for anomalies. Anomalies in fish tissues and organs are deviations from those normally observed (Schmitt et al. 1999). Anomalies observed may include lesions, tumors, skeletal deformities, gill or fin fraying and erosion, hemorrhagic tissues, parasites, and other grossly observable conditions (Schmitt et al. 1999). Gills were examined for clubbing, fraying, pale coloring, margination, and parasites. Opercula were examined for shortening or deformity (described below). Fins were examined for fraying, erosion, hemorrhaging, and parasites. Fins were observed individually and their overall conditions were analyzed collectively. Examples of several external anomalies we observed in silvery minnows are provided in Figure 1 through Figure 4.

Observation of Silvery Minnow Opercula

We refer to opercula (also opercles, or singular, operculum) as they include the entire morphological structure, or opercular complex, of bone, skin, and collagen. The degree of shortening was noted as slight or severe (Figure 2). Generally, shortened opercula were identified when the skin, cartilage or bone was reduced from its full extent or deformed as viewed in profile. Slight shortening is described as visible shortening with flap obviously not covering entire gill (Figure 2A), and with minimal amount of gill exposed. Severe shortening is described as extreme shortening with much of the gill exposed and visible to the naked eye (Figure 2B). For evaluation, shortened opercula were analyzed as present/absent rather than according to the degree of shortening to reduce the subjective nature of the shortened opercula observations.

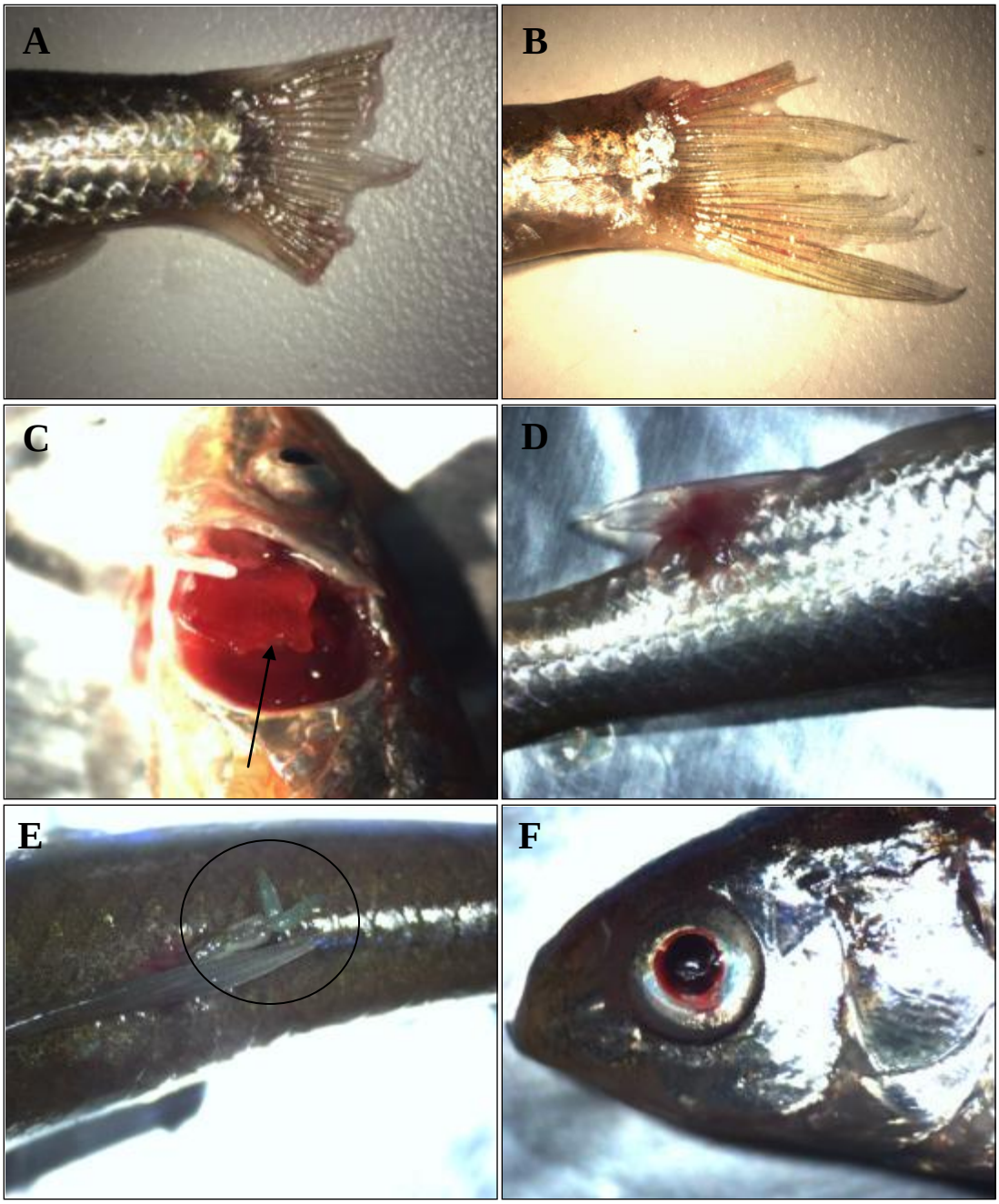


Figure 1. Examples of external anomalies: (A) severe fin erosion; (B) fin erosion and fraying; (C) frayed gill; (D) skin lesion; (E) parasites; and (F) hemorrhagic eye. All photography by A. Davis/USFWS.

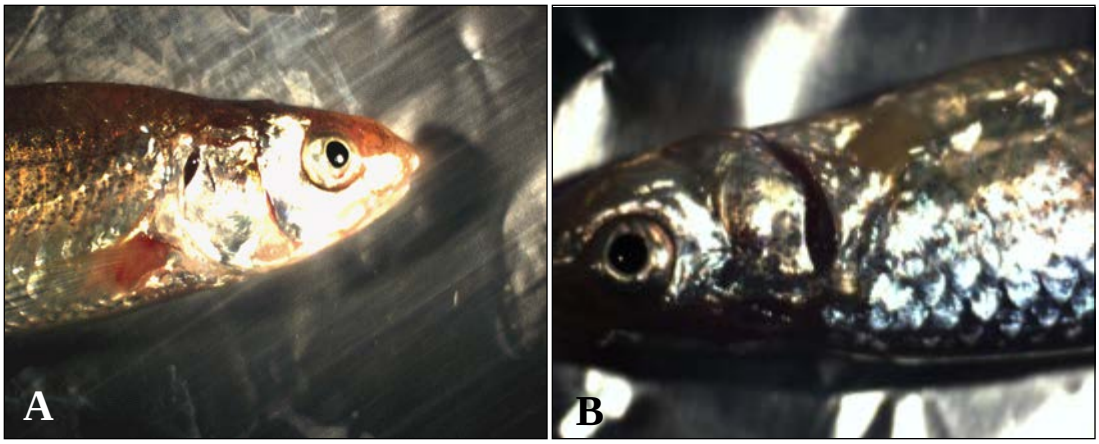


Figure 2. Slight opercula shortening (A); and severe opercula shortening (B).

Once the external examination was complete, silvery minnows were dissected using surgical scalpels, forceps, and other tools, and the viscera were removed onto foil. Forceps, foil, and other instruments used during the necropsy were rinsed with acetone and deionized water between fish to reduce cross contamination. We examined the viscera and internal organs to observe tumors or nodules, inflammation, hemorrhaging, or discoloration. The liver was observed for discoloration and condition. As cyprinid livers tend to be made up of dispersed nodules (Schmitt and Dethloff 2000), silvery minnow livers were not extracted from the viscera and weighed. The gall bladder was observed for fullness and color. The spleen was examined for color, granular texture, nodules, and enlargement. The spleen was removed from the viscera and its weight was measured on a mass balance. The amount of mesenteric fat was qualitatively observed. The kidneys were examined for color, swelling, urolithiasis (i.e., "stones"), or nodules. Gender, to the extent determinable, was verified upon internal examination (Figure 3). Gonads were removed and preserved separately in vials containing 10 percent, neutral buffered formalin, for histopathological verification, as necessary.

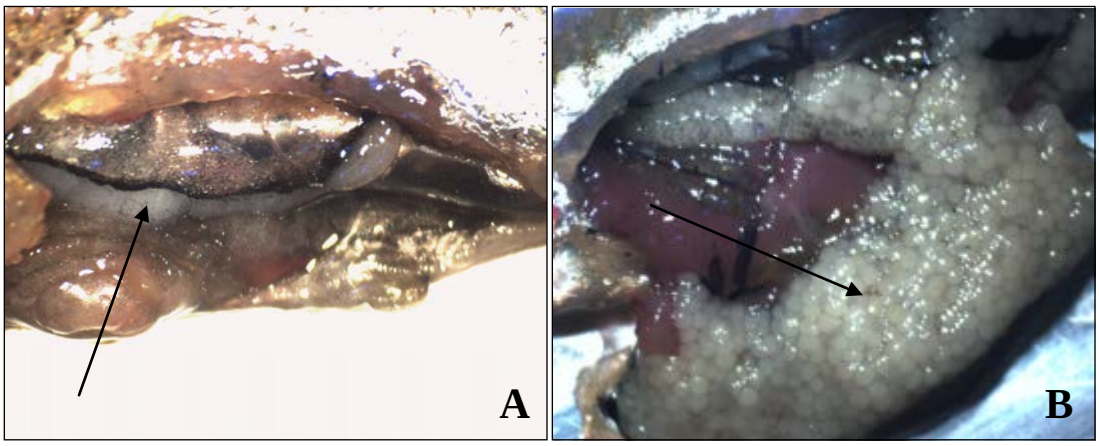


Figure 3. Examples of (A) male gonads; and, (B) female gonads.

Examples of several internal anomalies we observed in silvery minnows are provided in Figure 4. As necessary, grossly abnormal tissues were collected, noted, and stored for further histopathological examination. After examination, viscera, including organs and tissues examined, except gonads, were placed back into the carcass. The carcass was wrapped in foil, frozen (4 °C), and later used for chemical analyses (see Lusk 2012b).

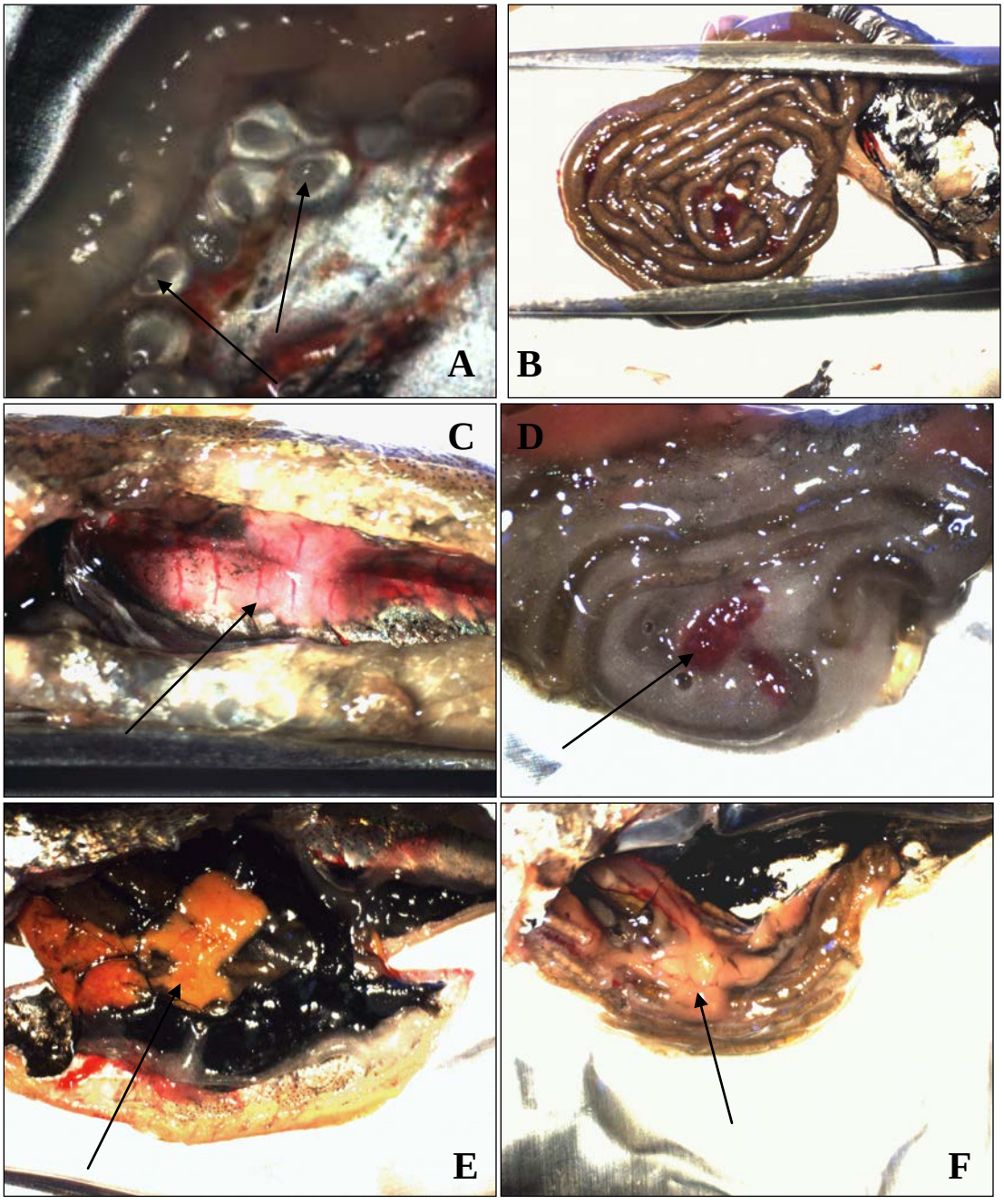


Figure 4. Examples of internal anomalies: (A) parasites in the mesentery; (B) full gut; (C) swollen kidney; (D) nodular spleen; (E) discolored liver; and (F) tan (fatty) liver.

Sampling Silvery Minnow Tissues for Histopathology

From the silvery minnows examined from each site, several individuals were randomly preselected for further histopathological examination by the U.S. Geological Survey's (USGS) Columbia Environmental Research Center (CERC), in Columbia, Missouri (see Papoulias et al. 2009). These silvery minnow tissues were termed Histopath Samples. During external and internal examinations of these preselected silvery minnows, any grossly abnormal tissues, as well as samples of the liver, gonad, spleen, and kidney were removed with forceps and preserved in a labeled, 2-milliliter (mL), polypropylene vial with polyethylene screw caps (e.g., Cryovial) partially filled with 10 percent, neutral buffered formalin.

During Year 1, ten percent of the silvery minnows necropsied were preselected as Histopath Samples. During Year 2, we increased the number of Histopath Samples to 20 percent. Additionally, during Year 2, after necropsy, entire silvery minnow bodies were preserved and shipped for histopathological examination, instead of individual organs and tissues. All Histopath Samples were sent preserved in buffered formalin to the USGS CERC for further observation, histology, histopathology, and analyses. Their analyses included microscopic examination of the tissues for the presence of lesions, observations of macrophage aggregates (MA) in spleen and kidney tissues, and examination of gonads to determine gender and reproductive stage among other measurements and evaluations (see Papoulias et al. 2009).

Calculation of the Health Assessment Index and other Indices

The splenosomatic index (SSI) was calculated as the percentage of the spleen weight to total body weight (Busacker et al. 1990). The HAI was calculated using the observations of gross external and internal anomalies as a general indicator of silvery minnow health during this study. The HAI can be a valuable method for estimating cumulative stress, and documenting lesions or anomalies that have advanced to the point of being grossly visible, those the public are often most concerned about (Adams et al. 1992; Schmitt and Dethloff 2000). Following Adams et al. (1992), we used a numerical value assigned for each condition (Appendix 2B), and the assigned values were summed and summary values were computed for each silvery minnow (Appendix 2I). These values were then used to calculate the mean HAI and were compared by sample year, month (quarterly corresponding to season), and site.

A Feeding Index was also calculated using bile fullness and color according to Goede (1993). The Feeding Index is an indicator of time to last feeding and is based on the fullness and color of bile in the gallbladder. Both fullness of the gallbladder and color of the bile are directly related to movement of digested material into the gut (Goede 1993). The gallbladder remains empty while food is being moved through the gut. In the absence of food, bile is stored in the bladder where oxidation of pigments begins to change bile color over time from yellow to dark green. The four categories for measuring bile color and fullness are 0 (bladder empty or partially full), 1 (bladder full, bile is yellow), 2 (bile is light or grass green), and 3 (bile is dark green). These gallbladder

observations were transformed into a Feeding Index according to Goede (1993). A Feeding Index of 100 indicated active feeding among silvery minnows just prior to their collection. A desirable range for the Feeding Index is greater than 67 (Goede 1993).

Data Analyses

Length, weight, opercula shortening, SSI, and HAI data were summarized by sample year, month, and site. Comparisons were also made by sample year, which refers to all observations conducted in Year 1 or Year 2 as described above. Gender was not used to summarize data as not all silvery minnow genders were verified by histopathogical observation and there were numerous silvery minnow of indeterminate gender collected in July. If the summary data met assumptions of normality and equality of variance, a One Way Analysis of Variance (ANOVA) was conducted to determine if significant differences existed. A Student's t-test or Tukey post-hoc tests were used to determine specific differences in the mean. Where data did not meet these assumptions of normality, data were transformed to ranks and a Kruskal-Wallis and median test was applied to test the ranks using Statistica (Statsoft 2011). Other parametric and nonparametric statistical tests were also employed and are so indicated in the text.

Arithmetic means plus or minus one standard error (± 1 SE), or one standard deviation (SD), ANOVA, Student's t-test, and Tukey's post hoc tests were calculated using the software package SPSS Version 13.0 for Windows (SPSS Inc., 2004). Unless otherwise specified, average values are presented plus or minus ± 1SE. Pearson's product-moment correlation coefficients (r) were used to describe the extent to which measured values (or summary data) varied together. Only significant and robust relationships (indicated by correlation coefficients greater than 0.4) were reported unless otherwise specified. Statistical significance refers to a probability (p) of less than or equal to 0.05 unless otherwise stated. Descriptive statistics and figures were generated using Microsoft Excel 2007, SPSS Version 13.0 for Windows, and Statistica (StatSoft Inc., 2010).

RESULTS

A total of 1,070 silvery minnows were observed and processed during sample years (Year 1 and Year 2) (Appendix 2C). Of the silvery minnows observed, females represented 49 percent (n = 522), males 33 percent (n = 352), and 18 percent genders were indeterminate (n = 196) and indeterminate genders were not further evaluated. Overall, 111 silvery minnows (10 percent) contained a Visible Implant Elastomer (VIE) tag used to identify hatchery-reared silvery minnows (U.S. Fish and Wildlife Service 2010). These VIE tagged silvery minnows were noted and included in all fish health assessments and data analyses. A total of 178 (17 percent) of the silvery minnows collected were further used for histology and histopathology (Papoulias et al. 2009).

Silvery Minnow Total Length

Year 1 silvery minnows were significantly greater in mean TL than those collected during Year 2 ($t = 17.19_{(1,063)}$; $p < 0.001$) (Figure 5; Appendix 2D). During Year 1, the April mean TL was significantly smaller than in all other months sampled (ANOVA; $F = 10.124_{(5, 507)}$, Tukey post-hoc, $p < 0.01$) (Figure 5). Mean TL was similar for all other months sampled during Year 1. Site 5 had the smallest mean TL, significantly different from all other sites except Site1 and Site 2 (ANOVA; $F = 12.603_{(5, 505)}$, Tukey post-hoc, $p < 0.006$) (Figure 6). The April mean TL was significantly smaller than in all other months sampled during Year 2 (ANOVA; $F = 10.124_{(3, 507)}$; Tukey post-hoc, $p < 0.01$) (Figure 6). During Year 2, differences among Sites 1, 2, and 3 mean TL were observed as well as differences among Sites 4, 5, and 6 mean TL (ANOVA; $F = 9.188_{(5, 548)}$; Tukey post-hoc. $p < 0.03$) (Figure 6).

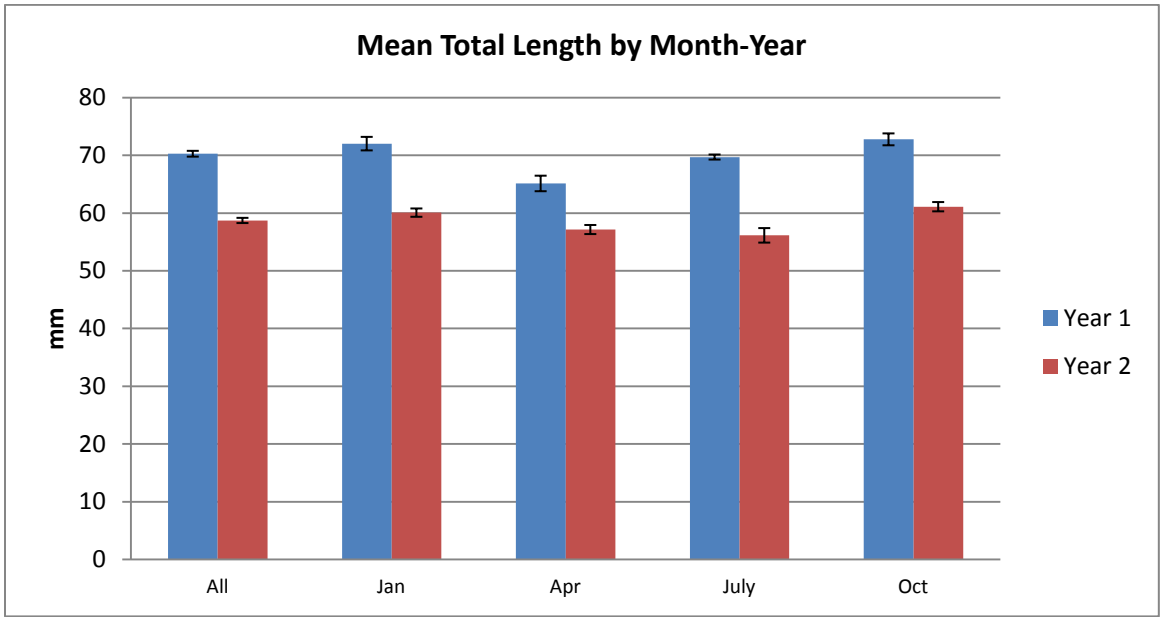


Figure 5. Mean total length of silvery minnows by month and sample year. Error bars represent ± 1 SE.

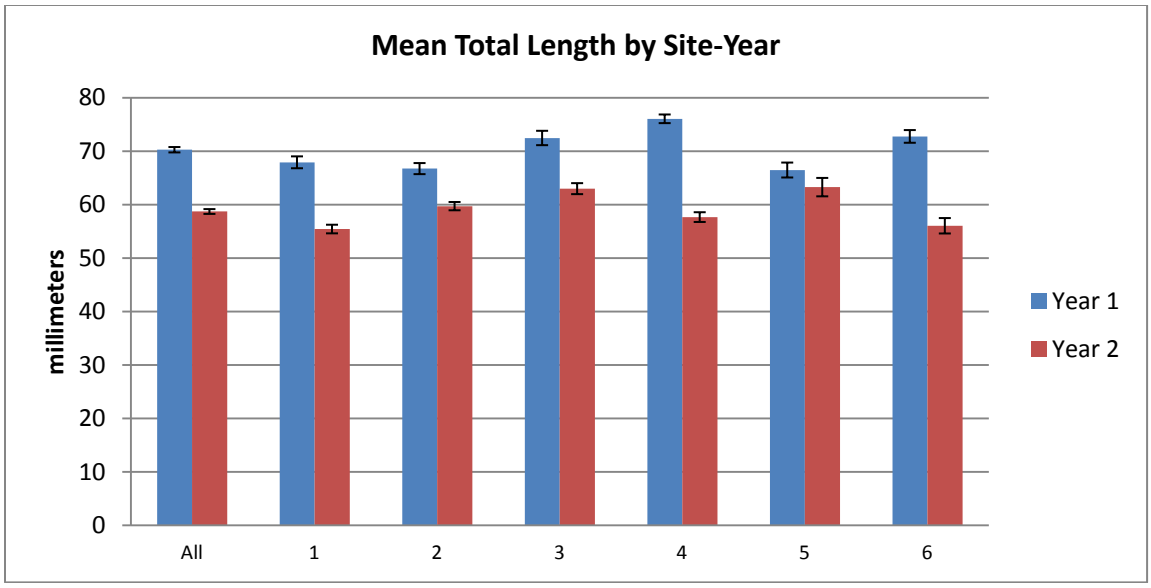


Figure 6. Mean total length of silvery minnows by site and sample year. Site numbers and names are listed in Table 1. Error bars represent ± 1 SE.

Silvery Minnow Weight

Silvery minnows collected ranged in weight from 0.25 to 8.0 g (average 2.8±1.4 g). Silvery minnows collected in Year 1 (3.10±1.5 g) had a significantly greater mean weight ($t = 15.795_{(1067)}$; $p < 0.001$) than found in Year 2 (1.89±1.0 g) (Figure 7; Appendix 2E). In Year 1, the mean weight of silvery minnows collected in October and July differed from one another (ANOVA; $F = 4.426_{(3, 512)}$; Tukey post-hoc, $p = 0.01$). Silvery minnows collected at Site 4 (Rio Grande at Los Lunas) had significantly greater mean weight (3.96±1.3 g) than from all other sites sampled during Year 1 (ANOVA; $F = 14.516_{(5, 510)}$; Tukey post-hoc, $p < 0.05$) (Figure 8). Silvery minnows from all months sampled during Year 2 had similar mean weight (Figure 7). Site 3 mean weight was significantly greater than all other sites except Site 5 during Year 2 (ANOVA; $F = 11.877$ (5, 547); Tukey post-hoc, $p < 0.003$) (Figure 8).

Splenosomatic Index (SSI)

Year 1 mean SSI did not differ significantly from Year 2 mean SSI (Figure 9; Appendix 2F). During Year 1, July mean SSI differed from all other months sampled (ANOVA; $F = 11.668_{(3, 508)}$; Tukey post-hoc, $p < 0.001$) (Figure 9). Year 1 Sites 1 and 2 mean SSI differed from Sites 4 and 5 (ANOVA; $F = 5.548_{(5, 506)}$; Tukey post-hoc), $p < 0.02$) (Figure 10). All other comparisons among sites were similar during Year 1.

During Year 2, April mean SSI was significantly lower than the mean SSI from all other months sampled (ANOVA; $F = 9.478_{(2, 228)}$; Tukey post-hoc, $p < 0.016$) (Figure 9). There were no differences in mean SSI among sites sampled during Year 2 (Figure 10). Although an individual silvery minnow from Site 3 had an SSI of 2.89, the mean SSI for Site 3 during Year 2 did not significantly differ from other sites sampled (Figure 10).

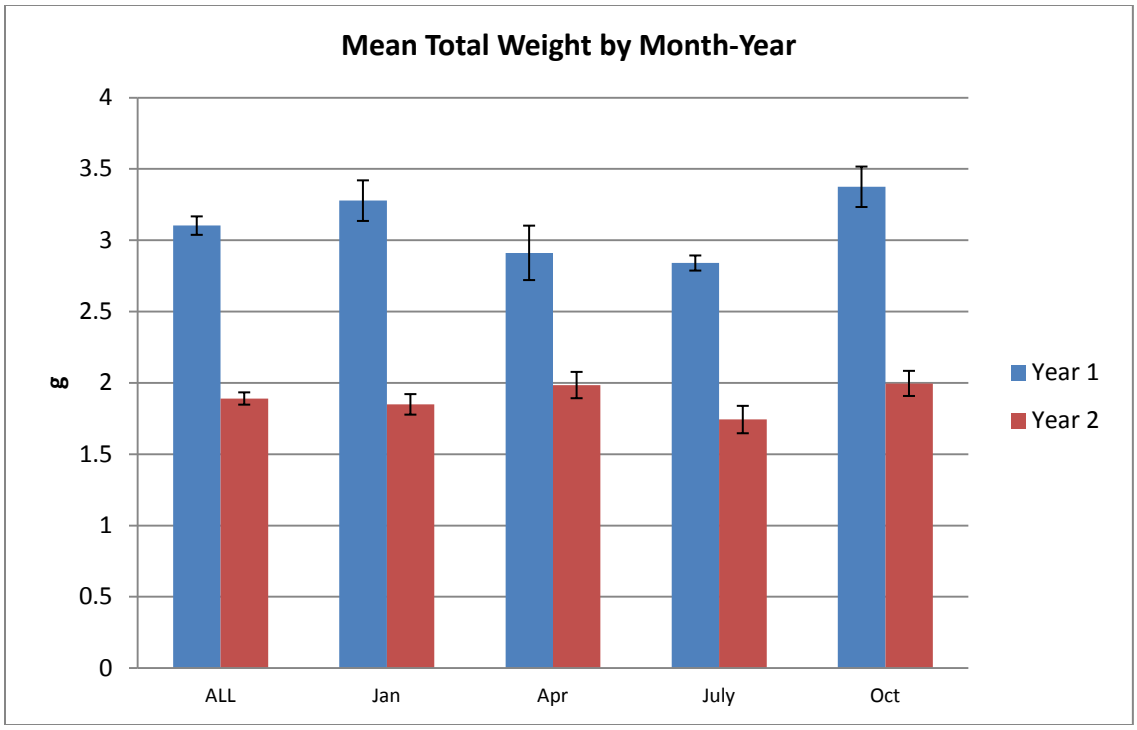


Figure 7. Mean weight of silvery minnows by month and sample year. Error bars represent ± 1 SE.

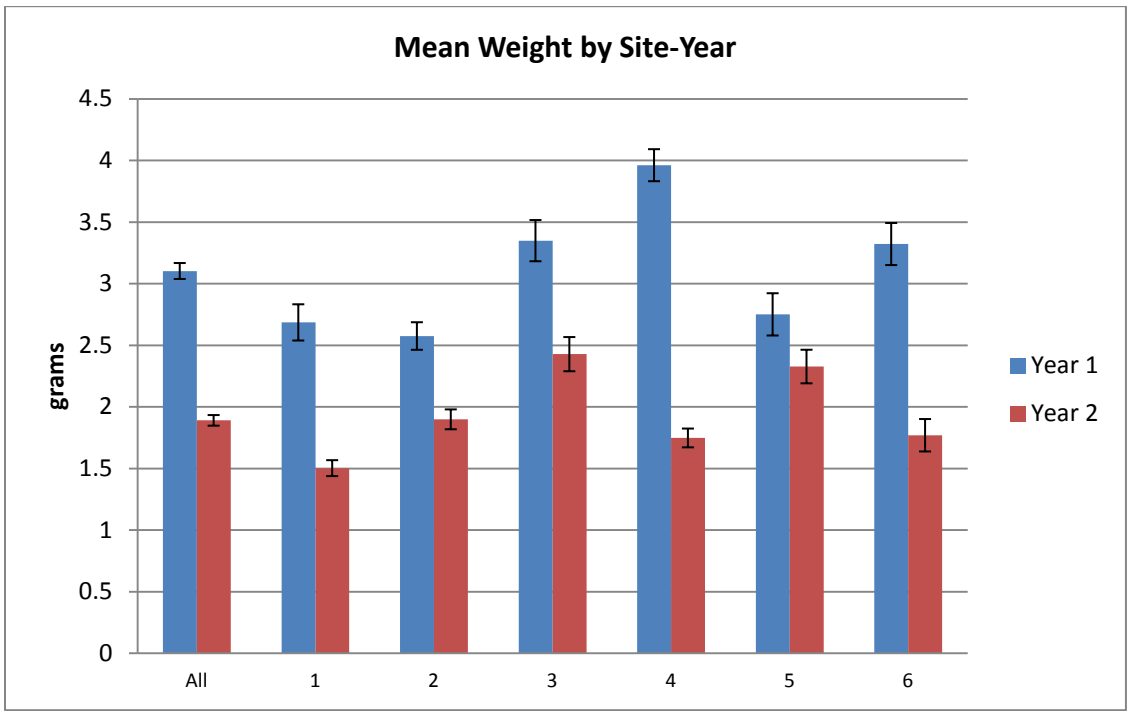


Figure 8. Mean weight of silvery minnows by site and sample year. Site number and names are listed in Table 1. Error bars represent ± 1 SE.

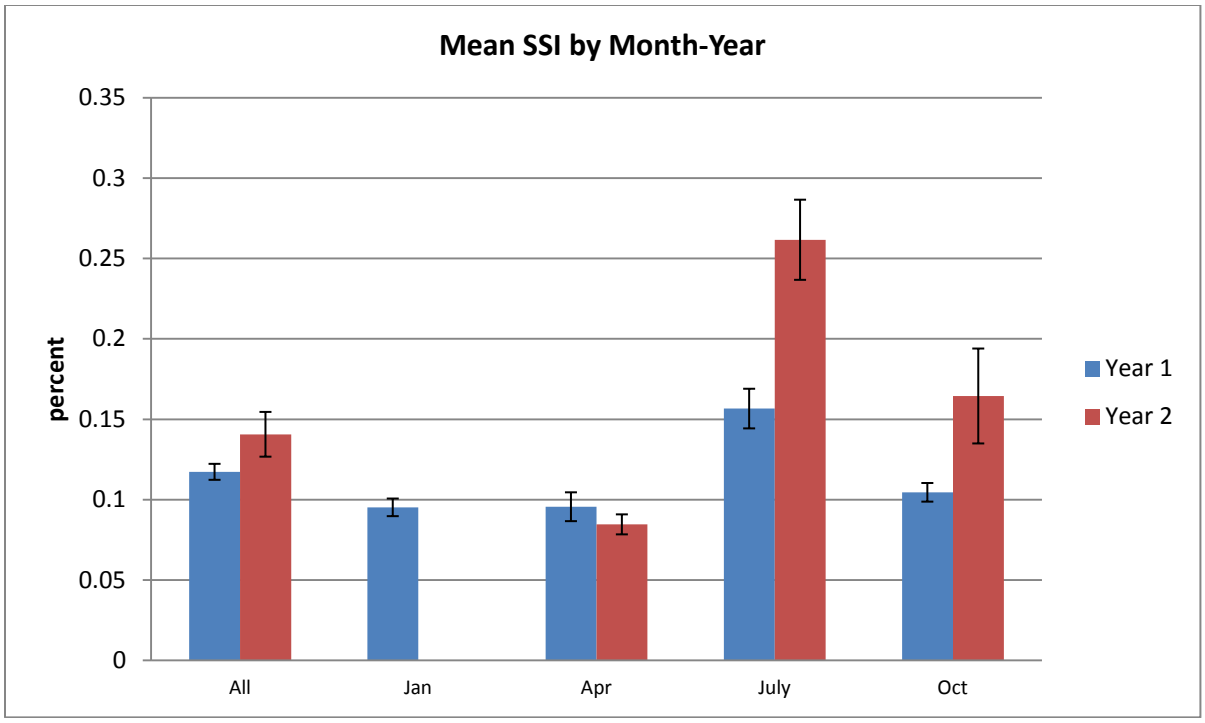


Figure 9. Mean SSI for silvery minnows by month and sample year. Error bars represent ± 1 SE.

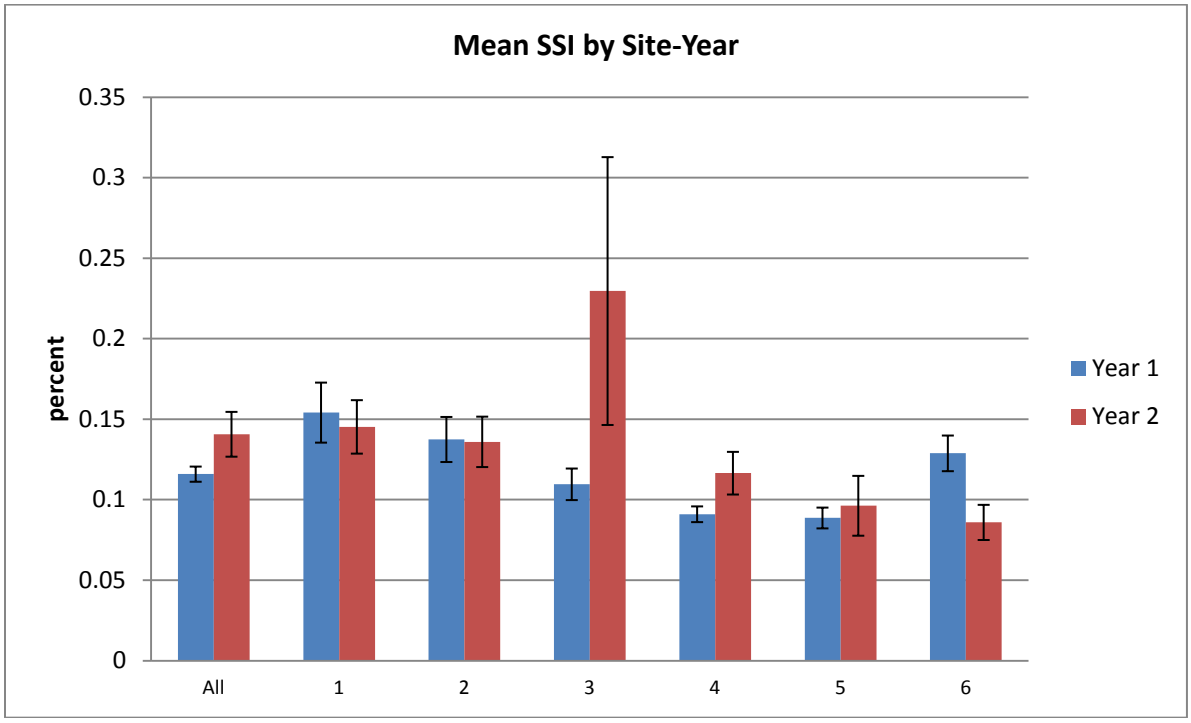


Figure 10. Mean SSI for silvery minnows by site and sample year. Site number and names are listed in Table 1. Error bars represent ± 1 SE.

Health Assessment Index (HAI)

Silvery minnows collected in Year 1 had a significantly lower mean HAI score than from Year 2 ($t = -5.559_{(1068)}$; $p < 0.001$) (Figure 11; Appendix 2G). During Year 1, July HAI scores differed from both April and October mean HAI scores (ANOVA; $F = 6.265_{(3, 512)}$; Tukey post-hoc, $p < 0.005$) (Figure 11). Year 1, Site 1 had significantly lower mean HAI scores than all other sites except Site 2 (ANOVA; $F = 11.061_{(5, 510)}$; Tukey post-hoc, $p < 0.001$) (Figure 12).

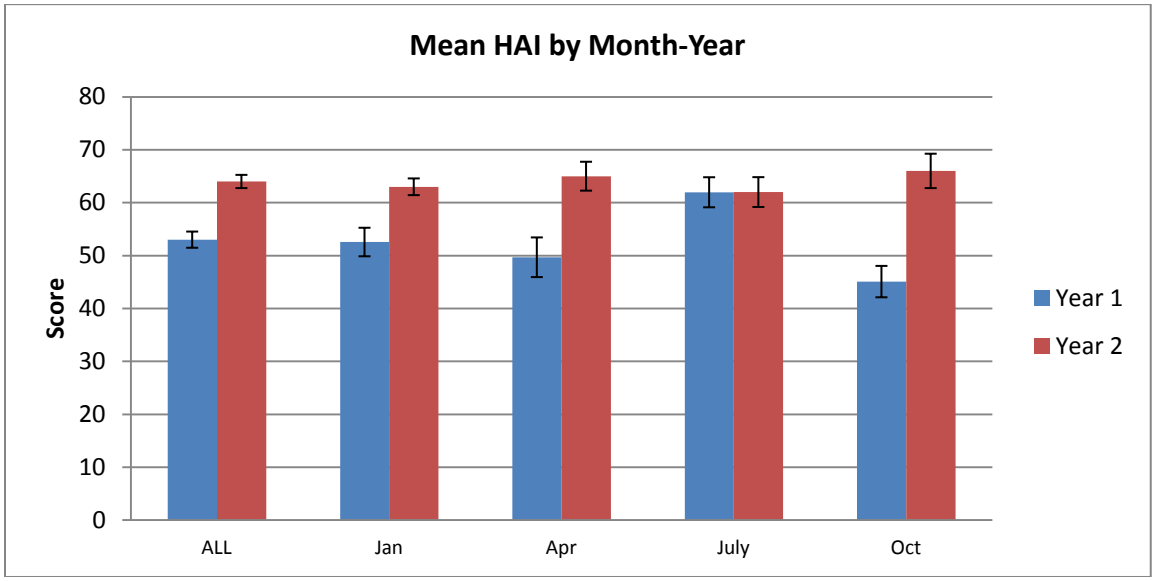


Figure 11. Mean HAI for silvery minnows by month and sample year. Error bars represent ± 1 SE.

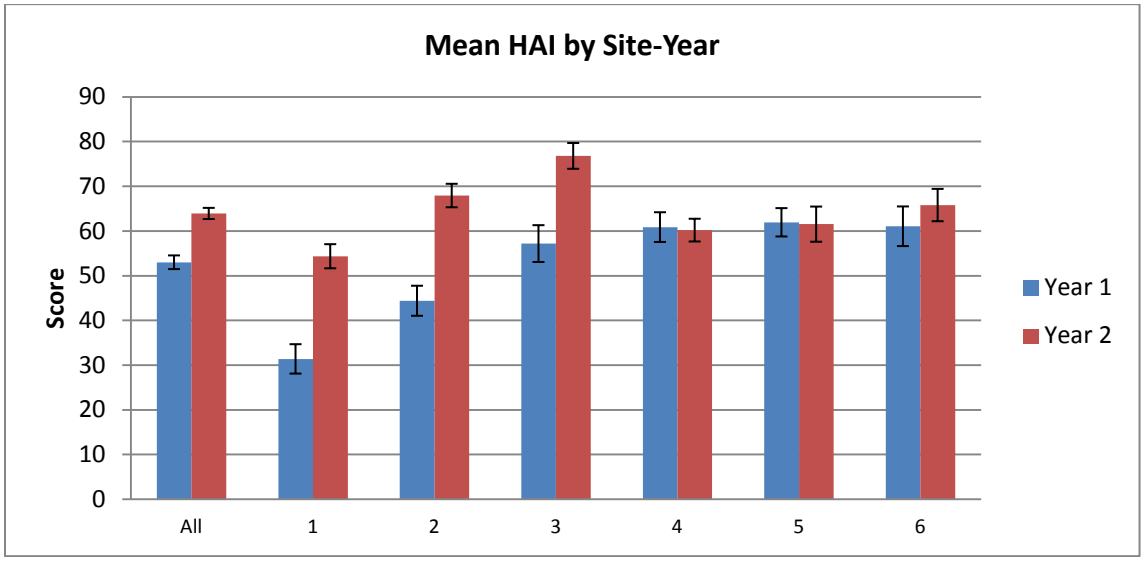


Figure 12. Mean HAI for silvery minnows by site and sample year. Site number and names are listed in Table 1. Error bars represent ± 1 SE.

Silvery minnows collected in Year 2 had similar HAI in all months. There was a significant difference among mean HAI scores from upstream Sites 1, 2, and 3 (ANOVA; $F = 6.767_{(5, 548)}$; Tukey post-hoc, $p < 0.006$) (Figure 12); however, there was no difference among downstream Sites 4, 5, and 6.

Feeding Index

During Year 1, the mean Feeding Index in silvery minnows collected in July was significantly lower than those collected in January or December (Kruskal-Wallis test: $H = 25.51_{(3, 509)}$ $p < .001$) (Figure 13). There were no significant differences in Feeding Index by site in Year 1 (Figure 14). During Year 2, the mean Feeding Index in silvery minnows collected in July was significantly lower than those collected in January or December (Kruskal-Wallis test: $H = 24.93_{(3, 542)}$ $p < .001$) (Figure 13). There were no significant differences in Feeding Index by site in Year 2 (Figure 14). The Year 1 mean Feeding Index was significantly lower than in silvery minnows collected during Year 2 (Kruskal-Wallis test: $H=67.04365_{(1, N= 1051)}$; Chi-Square = 20.89, $p < 0.001$).

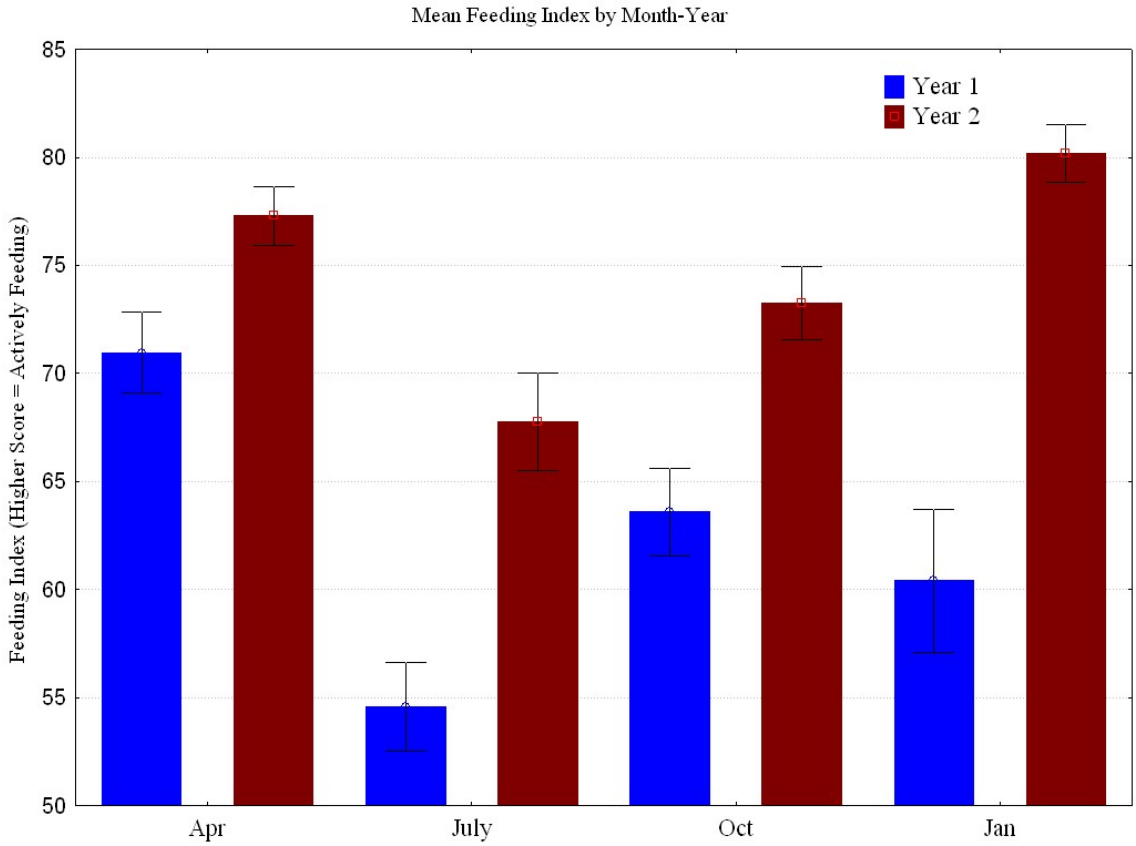


Figure 13. Mean Feeding Index for silvery minnows by month and sample year. Error bars represent ± 1 SE.

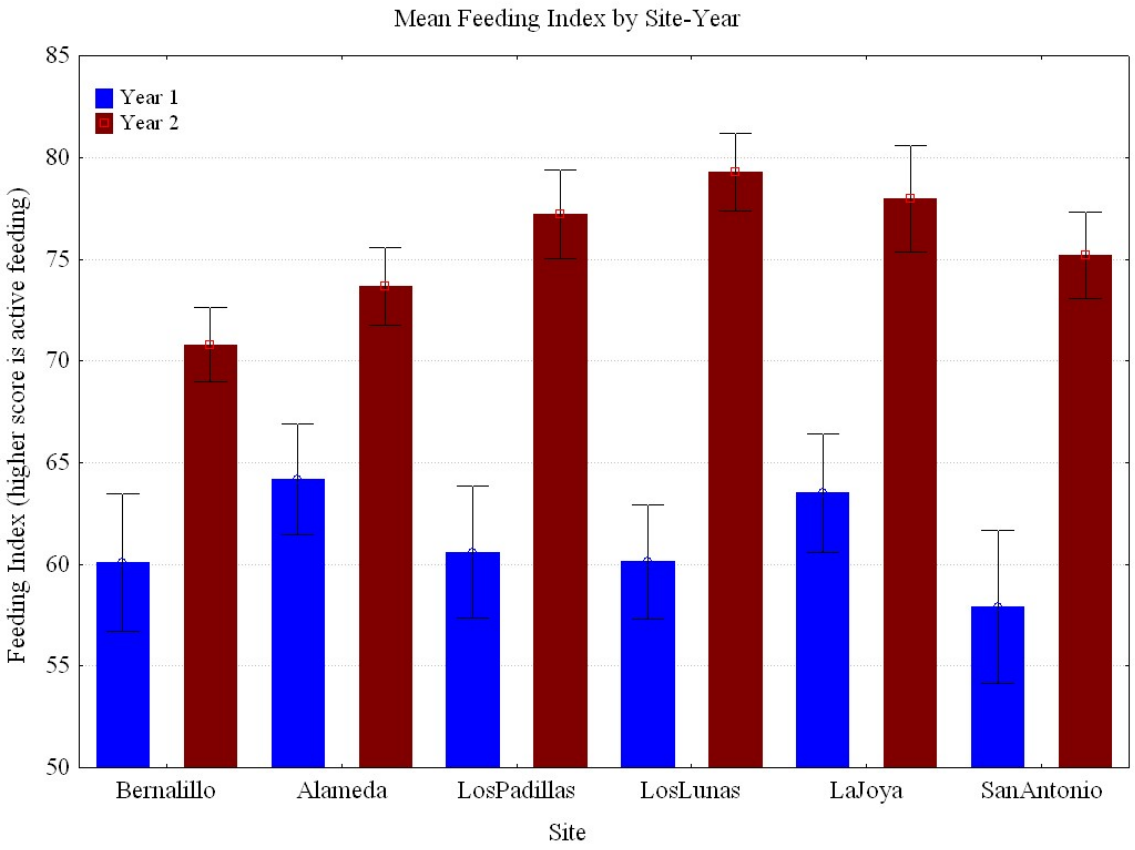


Figure 14. Mean Feeding Index for silvery minnows by site and sample year. Sites are further described in Table 1. Error bars represent ± 1 SE.

Silvery Minnow Opercula

Shortened opercula were the most prevalent gross abnormality observed in both Year 1 and Year 2 silvery minnows sampled (Figure 15; Appendix 2H.). The overall frequency of occurrence was less during Year 1 (50 percent) compared with Year 2 (89 percent). During Year 1, this anomaly was partially bilateral (i.e., 40.9 percent had equally shortened opercula). The unilateral abnormality was observed 3.7 percent just on the right side and 5.8 percent on just the left side. The remaining silvery minnows had varied shortening of both opercula (49.6 percent). During Year 2, this anomaly was largely bilateral (83.2 percent). The unilateral abnormality was observed 2.9 percent on just the right side and 3.1 percent on just the left side, and remaining silvery minnows had varied shortening of both opercula.

In Year 1 the observed frequency of shortened opercula increased during April (68 percent) and July (65 percent) and decreased during January (38 percent) (Figure 15). In Year 2 observations of shortened opercula in silvery minnows were elevated during January (98 percent) (Figure 15), and slightly lower in July (86 percent) and October (79 percent). During Year 1, the highest frequency of opercle shortening was observed in silvery minnows from Site 5 (Figure 16). During Year 2, all six sites had high occurrence (greater than 70 percent) of shortened opercula (Figure 16).

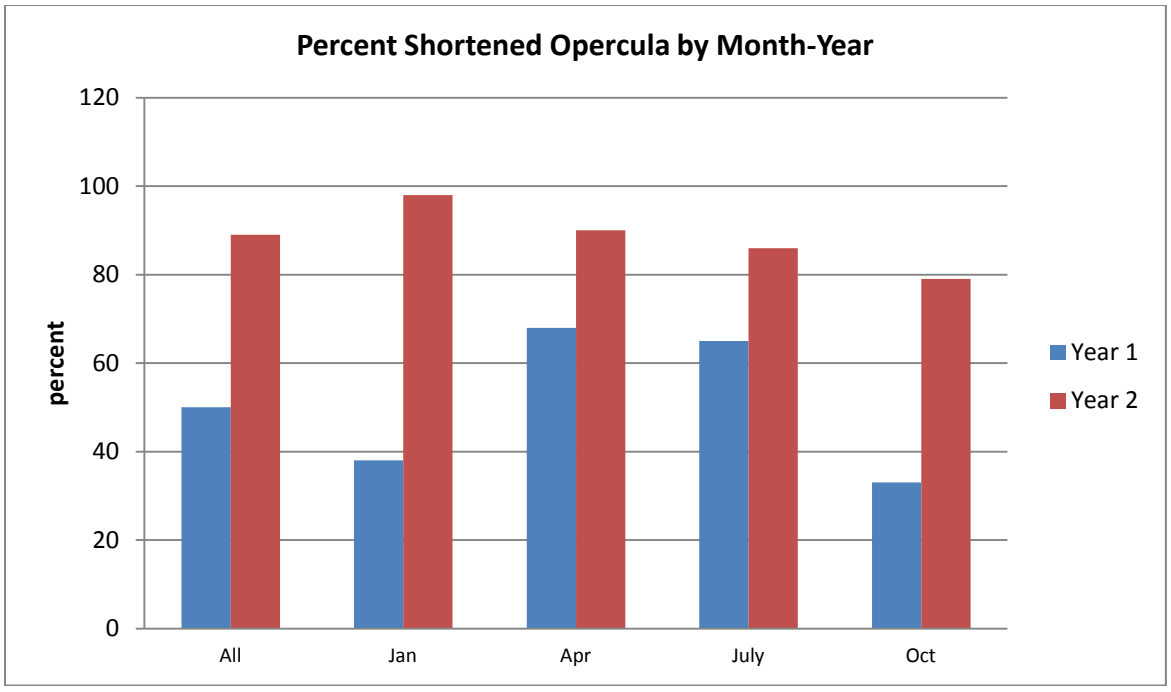


Figure 15. Mean percent of shortened opercula observed in silvery minnows by month and sample year.

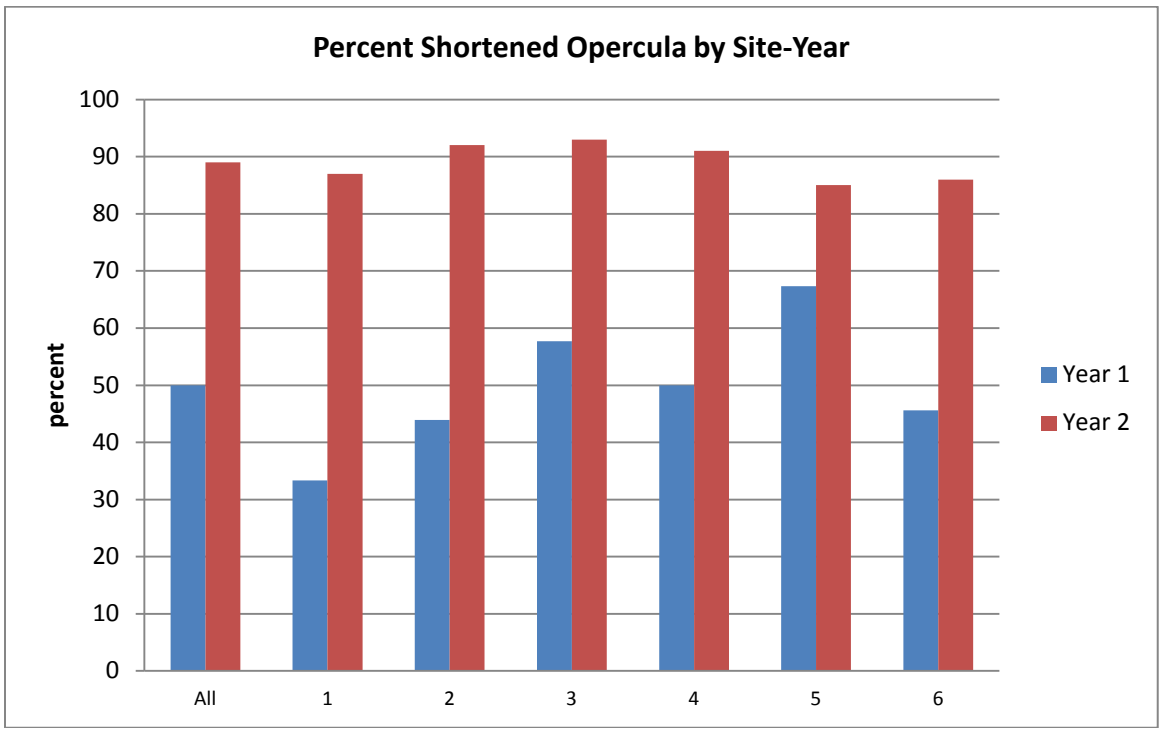


Figure 16. Mean percent shortened opercula observed in silvery minnows by site and sample year. Site number and names are listed in Table 1.

Summary of Silvery Minnow Health Observations

Silvery minnow health observations, measurements, notes, and index scores are summarized in Appendix 2I. We observed a number anomalies including parasites, skin ulcers, fin erosion, tumors, enlarged or reduced organs, organ discoloration, nodules, and other deformities (e.g., Figures 1 and 2). Photographs taken were stored digitally and selected photos were labeled and provided in Appendix 2J (Plates 1-58). In additon to shortened opercula, some of the anomalies seen at a high frequency were clubbing of the gills and liver discoloration. Gill anomalies such as clubbing, may indicate bacterial or parasite exposure or other water quality stressors. Liver discoloration may signify fatty deposits, metabolism or vitamin deficiencies, disease, or exposure to certain contaminants (Schmitt and Dethloff 2000; Hinton at al. 1992; Goodbred et al. 1997).

In this study, the health anomolies seen in silvery minnows at the greatest frequency were shortened opercula (70 percent), liver (52 percent) and gill (50 percent) (Figure 17; Appendix 2H). During Year 1, 50 percent of silvery minnows observed had shortened opercula. InYear 2, that percentage increased to 89 percent. Liver anomalies were high for both years, 45 percent of livers examined during Year 1 had discolored or anomalies. During Year 2, discolored or anomalous livers increased to 59 percent. Gill anomalies were observed in 44 percent examined during Year 1. In Year 2 that percentage increased to 56 percent. Kidney anomalies were observed in 16 percent during Year 1. In Year 2, kidney anomalies increased slightly to 24 percent. External lesions and tumor observations decreased from Year 1 from 25 percent to 13 percent in Year 2. Spleen anomalies appeared to decreased as well, 22 percent in Year 1 to 9 percent in Year 2.

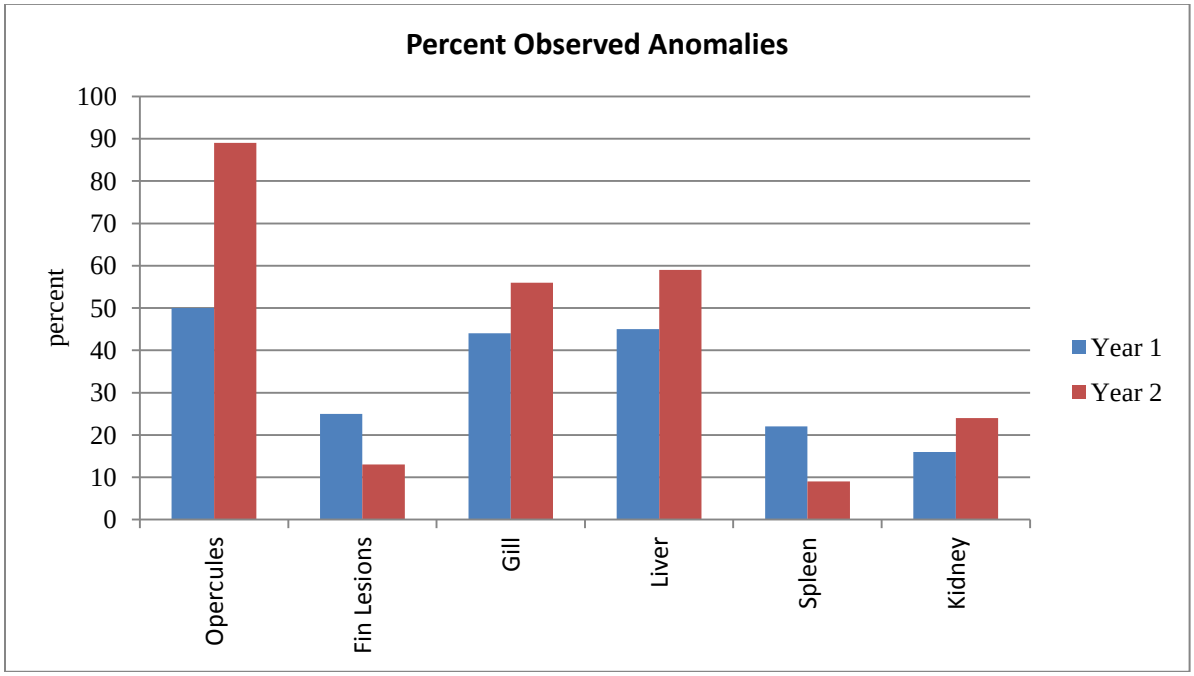


Figure 17. Mean percent of anomalies observed in silvery minnows by type and sample year.

DISCUSSION

Fish may be regarded as representative indicators of environmental health because of their position and function within river ecosystems. Impairments of fish health may indicate contaminants or other stressors within the aquatic ecosystem, some of which could remain undetected by traditional water quality monitoring techniques. In the mid-1990s, the USGS developed and implemented several watershed-based fishery monitoring projects using a standard suite of methods designed to detect changes in the overall condition of large-bodied fish as well as provide information about the status, health and welfare of individual fish and their subpopulations over time (Schmitt et al. 1995; Bartish et al. 1997, Schmitt et al. 1999) including in the Rio Grande. We used and modified these fish health observation methods to accommodate small-bodied species such as silvery minnows. These health observations were implemented as a means to characterize the health of silvery minnows along with other concurrently measured parameters such as water quality in order to maximize the information available about factors contributing to the health condition of silvery minnows in the Rio Grande over time.

Length and Weight

Generally, fish metabolism and growth (as measured by length and weight) increase positively with water temperature (von Bertalanffy 1957). Both mean TL and weight were significantly greater during Year 1. Lusk (2012a) reported that average water temperatures (95 percent confidence intervals) were colder during Year 2 (11.9-12.1°Celsius (C)) than Year 1 (13.9-14.1°C). For both years, Site 1 and Site 6 had the lowest mean TL and weight and the average water temperatures at Site 1 (12.1-12.5°C) and Site 6 (11.6-12.1°C) were generally colder than measured at Site 2 (14.0-14.3°C), Site 3 (12.7-13.0°C), Site 4 (13.5-13.8°C), or Site 5 (13.0-13.2°C) (Lusk 2012a). Also, silvery minnows were feeding more actively in Year 2, (based on their mean Feeding Index, below) yet had lower mesenteric fat reserves in Year 2, and therefore, we suspect water temperature may have had a predominant role in size of silvery minnows measured.

Indices of Fish Health

Indices of fish health have been used extensively in population assessments as indicators of well-being of individual organisms (Adams 1990; Goede and Barton 1990). Fish health assessments were relatively simple and inexpensive to perform. Fish health indices can reflect the status of organ systems, which may change in size due to environmental factors more rapidly than whole body weights change in size. The relative weights of organs such as liver and gonads relative to total weight may signify overall health or reproductive status of a fish (Busacker et al. 1990), but for this study, only SSI, HAI, Feeding Index were evaluated as general indicators of fish health as we were unable to evaluate a hepatosomatic or gonadosomatic index for these cyprinids due to the dispersed nature of their liver and gonads. Additionally, a high degree of size variation was seen in silvery minnow gonads during different life stages observed over each year.

Splenosomatic Index (SSI)

The condition and morphology of the spleen can be useful as a diagnostic tool because it is associated with the storage of red blood cells and may support immune system response in fish species (Anderson 1990; Franklin et al. 1993; Schmitt and Dethloff 2000). However, spleen sizes vary among fish species, and even within the same species. Age, gender and gonad development are also factors that may affect spleen weight (Schmitt and Dethoff 2000). Acute or nonspecific stressors such as temperature changes, hypoxia, extreme exercise, and exposure to chemical contaminants have also affected spleen weight (Franklin et al. 1993; Schmitt and Dethloff 2000). An enlarged spleen may also suggest disease or an immune system disorder due to increased hypertrophy or proliferation of leukocytes and other blood cell types (Anderson 1990; Goede and Barton 1990). The SSI has been incorporated into monitoring protocols evaluating the Mississippi River (Schmitt 2002), Colorado River (Hinck et al. 2006) as well as the Rio Grande Basin (Schmitt et al. 2004, 2005).

In this study, spleen weight was measured and recorded to the nearest 0.001 g. In some instances, the spleen was too small to weigh accurately and thus no weight was recorded. When we compared the SSI data, Year 1 and Year 2 SSI were not significantly different. SSI in silvery minnows were also similar to those in large bodied fish collected from the Rio Grande (Schmitt et al. 2004). In both years the mean SSI was less than 0.2 percent, with the exception of one silvery minnow collected during July 2008 from Site 3 that had a SSI of nearly three percent. However, on average, the SSI did not change over time, although the number of spleen anomalies did appear to decrease between sample years.

Health Assessment Index (HAI)

The greater the mean HAI, the greater the number of lesions or other anomalies observed. Studies have indicated that fish in severely polluted areas exhibit a higher frequency of lesions than those in similar, but less polluted areas (Schmitt and Dethloff 2000). Mean HAI scores of silvery minnows were significantly greater in July compared to those sampled in other months in Year 1. Mean HAI scores were significantly lower in Year 1 than in Year 2. Mean HAI scores at Site 1 were relatively good (less than or equal to 30) during Year 1, but mean HAI scores at Site 1, Site 2, and Site 3 increased during Year 2. Mean HAI scores tended to increase downstream at and below Site 3, and remained elevated downstream to Site 6; suggesting that the cumulative condition of the silvery minnows deteriorated from upstream to downstream.

Although exposure to environmental contaminants alone can induce anomalies detected by the HAI score, it must be recognized that more often the development of gross lesions may be influenced by diet, certain water quality parameters, seasons and weather events, handling stress, or capture methods (Schmitt and Dethloff 2000; Papoulias et al. 2009). The HAI scores in silvery minnows tended to reflect external anomalies as well as their gill and liver conditions, rather than relate to average concentrations of pollutants reported in water, sediment, or fish tissues collected contemporaneously by the New Mexico Environment Department (NMED 2009) or as reported by Lusk (2012b). Certain

water quality parameters such as water temperature, pH, or specific conductivity may play a role in the development of skeletal (see opercula discussion below) or other anomalies and their averages were significantly greater in Year 2 than in Year 1 (Lusk 2012a). Additionally, suspended sediment concentrations measured at nearby USGS gage stations were higher in Year 1 (2,888±7813 mg/L) than in Year 2 (1,104±1436) (Lusk 2011). Increases in some of these water quality parameters (i.e., temperature, specific conductivity) as well as pathogen burdens tended also to be higher in July. Since Feeding Index improved in Year 2 (see below), as did measures of average gross primary productivity (Lusk 2012a), the increased mean HAI scores did not seem to be related to their feeding activity or other measures of productivity. It was difficult to completely assess the observed variations in the HAI to these water quality stressors, and therefore, the HAI may also be related to stressors that we did not measure adequately.

Feeding Index

Silvery minnows were more actively feeding at all sites in Year 2 than in Year 1. Lusk (2012a) reported that average gross primary productivity was significantly higher in Year 2 than in Year 1. This suggested that Feeding Index in silvery minnows could be related to average measures of gross primary productivity . However, average gross primary productivity was highest in July and lowest in April (Lusk 2012a), whereas the Feeding Index was lowest in July and highest in January and April. Therefore, Feeding Index and measures of average gross primary productivity may not be closely related, although it is possible that reduction of feeding may have occurred during July, or possibly, that the relative nutrition content of silvery minnow diets may also change during summer. Suspended sediment concentrations measured at nearby USGS gage stations were generally higher in Year 1 (2,888±7813 mg/L) than in Year 2 (1,104±1436) and may also have played a role in silvery minnow feeding or food availability (Lusk 2011).

Shortened Opercula or Fish Opercula Deformity Syndrome (FODS)

Skeletal deformities have been reported in other fish species and can affect the head, eyes, opercula, as well as vertebra (Al-Harbi 2001). Many studies observe that shortened opercula occurs during fish development as a non inherited congenital defect induced during the embryonic or larval stage, (Tave et al. 1982; Tave and Handwerker 1994; Koumoundouros et al. 1997; Tave et al. 2011), however, Lindesjöö et al. (1994) found shortened opercula in fish by year of exposure based on growth rings that coincided with later-in-life exposure. Skeletal malformations in fish can arise from a number of causes including: nutrient deficiency, particularly vitamin C or amino acid deficiency (Lim and Lowell 1978; Sato et al. 1982; Backiel et al. 1984; Chavez De Martinez 1990; Grady et al. 1992b; Koumoundouros et al. 1997; Dabrowski et al. 1988; Madsen and Dalsgaard 1999; Lall and Lewis-McCrea 2007), environmental contamination including metals (e.g., selenium, zinc, copper, cadmium, mercury and lead) and polychlorinated biphenyl (PCB) compounds (Grady et al. 1992b; Olsson et al. 1999; Antunes et al. 2002; Lemly 2002; Jawad 2004; Koca et al. 2005;), temperature conditions during development (Georgakopoulou et al. 2010), turbulence and elevated gases (Backiel et al. 1984; Al-Harbi 2001; Beraldo et al. 2003), parasites or infectious diseases (Lom et al., 1991),

genetic defects (Piron 1978; Al-Harbi 2001; Verhaegen et al. 2007; Tave et al. 1983; Koumoundouros et al. 1997; Beraldo et al. 2003), and mechano-transduction (the loss of bone density due to reduced activity) (Danos and Staab 2010).

Skeletal anomalies such as shortened opercula can affect fish feeding, respiration, swimming, normal morphology, growth and productivity (Sadler 1990; Lom et al. 1991; Koumoundouros et al. 1997; Al-Harbi, 2001; Lemly 2002; Verhaegen et al. 2007; Eissa et al. 2009). Opercula having normal structure and function are fundamental to fish health because impairment can reduce growth, lower resistance and defense against pathogens, and reduce the mechanical efficiency of feeding and respiration (Beraldo et al. 2003).

Shortened opercula was the anomaly seen at the highest frequency in silvery minnows we collected. The opercula were observed with shortening on one or both opercula. Shortened opercula has been reported in three other fish species collected from the Rio Grande including river carpsucker (*Carpoides carpio*), fathead minnow (*Pimephales promelas*), and red shiner (*Cyprinella lutrensis*) (Sykes 2003, Abeyta and Lusk 2004a). Silvery minnows in hatcheries have also been identified with 40 to 90 percent shortened opercula (Buhl 2011). Additionally, fish collected from the San Juan River Basin have been identified with shortened opercula. As shortened opercula have been observed in several different fish species collected from two large river basins, as well as in hatchery fish, we saw it as a widespread phenomena and termed it “Fish Opercula Deformity Syndrome” (or FODS). After these observations, we sought to evaluate the historical incidence of FODS in silvery minnows collected over time to gain more information.

Separate from this Rio Grande Silvery Minnow Health Study (and hence discussion of methods and results here), we evaluated the incidence of FODS in silvery minnows that have been collected by others at different locations over time. We worked with the University of New Mexico, Museum of Southwestern Biology (Museum), Fishes Division Collection Manager to identify those "lots" (that is, unique catalog numbers) of archived silvery minnows most similar to our own collections. That is, we identified those lots that had over 29 silvery minnows collected and with collection season and sizes that were within the range we collected (i.e., greater than 41 to 92 mm TL). Ultimately, we identified 25 "lots" (catalog collection numbers: 1119, 1120, 1125, 1130, 1151, 1155, 1162, 1171, 3961, 4338, 4384, 5730, 5934, 11589, 13472, 20396, 22671, 30032, 30246, 39103, 45271, 43314, 44627, 48229, and 49969) for FODS observations. Working with volunteers from the University of New Mexico and American Southwest Ichthyological Researchers, L.L.C., we removed, weighed, and measured total length, and observed both opercula from 30 randomly selected silvery minnows from 25 different years (Figure 18). We observed FODS in silvery minnows as early as 1938 from the archival sample lots we selected (Appendix 2K; Figure 18).

Below, we discuss several of these causes and evaluate whether they may or may not provide a potential explanation for the incidence of FODS in silvery minnows.

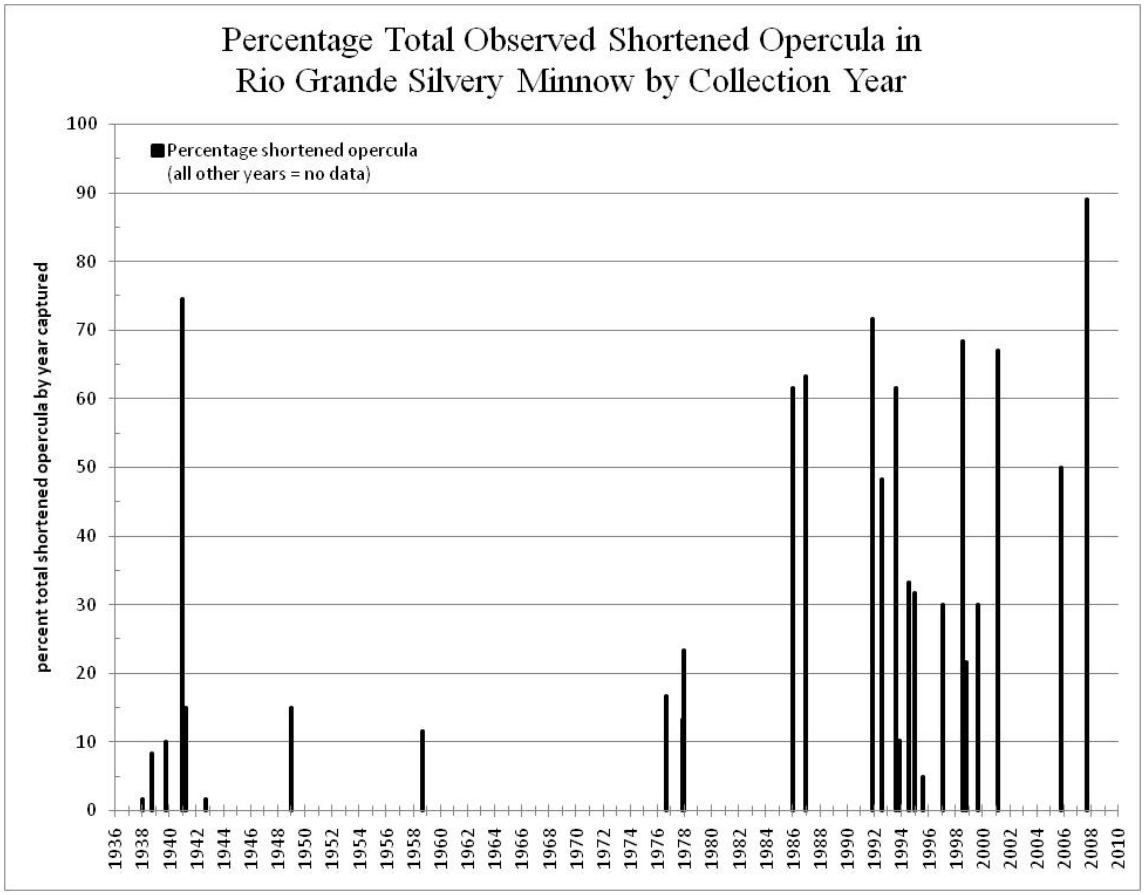


Figure 18. Percent shortened opercula in silvery minnows archived at the University of New Mexico, Museum of Southwestern Biology and in this study by year.

Turbulence and Suspended Sediment: During our study, suspended sediment concentrations averaged 1,936 mg/L at nearby USGS gage station and may provide abrasion to fish tissues including opercula. However, Papoulias et al. (2009) reported that opercula cleared for staining of bone and cartilage did not show signs of abrasion, but rather a reduced bone density as compared with opercula from silvery minnows reared in hatcheries. FODS also occurs in silvery minnows that were reared in hatchery water without suspended sediment. Silvery minnows in hatcheries are also raised in a carefully controlled environment and are protected from normal stress, trauma, and contusions that they would likely encounter in the wild environment. Therefore, we concluded that suspended sediment was not likely a direct factor in the incidence of FODS as it occurred in hatchery fish reared in water without suspended sediment and observations of shortened opercula did not appear to be the result of abrasion.

Genetic defects: Piron (1978) reported that tropical aquarium fish subjected to intensive inbreeding gave rise to a high incidence of spontaneous skeletal deformities which were related to a genetic defect rather than an environmental stimulus. Breeding and augmentation programs address the issue of inbreeding in silvery minnows, so a hereditary defect this does not appear to be an explanatory factor for the incidence of

FODS. Additionally, it is unlikely that the same pattern of genetic instability would occur in five different species of wild fish in two separate river basins.

Environmental Contamination: Lindesjöö et al. (1994) suggested that when fish detoxify pollutants they use their available vitamin C reserves for the detoxification process and thereby reduce the vitamin C available for collagen synthesis resulting in bone density losses and increased deformity rates. Olsson et al. (1999) reported opercula deformities associated with PCB exposure (particularly with PCB Congener 190) that resulted in larvae with craniofacial malformations, particularly opercula shortening that left the gill arches exposed, similar to our observation of FODS. However, their fish were exposed to PCB concentrations that were approximately 360 micrograms per kilogram (µg/kg), on a lipid basis. Lusk (2012b) reported that the maximum PCB concentrations in silvery minnows were less than 36 µg/kg, on a lipid basis. Additionally, PCB concentrations varied with collection location but the incidence of FODS in silvery minnows were generally consistent between sites within collection years (Figure 16). As PCB use was likely low during 1938, it is unlikely that PCB exposure is responsible for the incidence of FODS in the silvery minnows collected during that time. Additionally, hatchery-reared silvery minnows also have been exposed to feeds that contain trace amounts of PCBs, (Maule et al. 2007), we assumed that feed quality has been improved (Tacon and Metian 2008) over time and varied independent of FODS observations in silvery minnows reared in hatcheries.

However, due to their structural similarity with PCBs and their affinity for the same cellular receptors (Luthe et al. 2007), it is possible that some brominated diphenyl ether compounds (BDEs; flame retardant chemicals) may be found with mechanisms of toxicity comparable to PCBs. Lusk (2012b) reported BDE concentrations as high as 50 µg/kg in silvery minnows. Results from the few available laboratory studies indicate that BDEs disrupt thyroid hormones and may have endocrine-disrupting effects on fish (de Wit et al. 2006; Darnerud 2008; Talsness 2008). Thyroid hormones are critical to a developing fish and when they rise transformation begins in larvae and when they drop developmental changes cease. Tomy et al. (2004) reported that fish fed a mixture of BDEs have significantly reduced thyroid hormone concentrations compared with controls not fed BDEs. PCBs, BDEs and other organic compounds have been detected in fishes collected from Rio Grande (NMED 2009) and San Juan River Basins (Hinck et al. 2006), and including in silvery minnows (Lusk 2012b). Therefore, while unlikely, we cannot rule out environmental contamination as a potential cause of FODS in silvery minnows.

Nutrition: Ascorbic acid, or vitamin C, is a water soluble cofactor in many biological processes including collagen synthesis and other cellular and immune functions (Lall and Lewis-McRea 2007). Dietary vitamin C is required for most fish as they are unable to synthesize it to meet their requirements (Halver 2002). Skeletal malformations are common in vitamin C deficient fish and are caused by impaired biosynthesis of collagen (Halver 2002). As fish opercula are primarily made of protein, collagen, and calcium compounds, it is possible that vitamin C or other nutrient deficiency is a factor in the incidence of FODS. Nutritional deficiency could explain the incidence of FODS in silvery minnows (or other native fish species) if the habitat conditions for foods rich in

vitamin C were not readily available for developing fish larvae. Silvery minnows in hatcheries are supplemented with vitamin C (Caldwell 2004), and the incidence of FODS, while elevated (often greater than 50 percent), was not as severe as found in wild silvery minnows (Sykes 2003). Similar to Sykes (2003), we found inconsistent relationships between percent mesenteric fat ($r = -0.43$, $p = 0.004$) or Feeding index ($r = -0.45$, $p = 0.002$) and average percent of FODS in silvery minnows. However, nutritional deficiency remains a potential cause of FODS in silvery minnows. There are number of dietary items, such as diatoms, other plant and algal species, which can contain varying amounts of vitamin C (Brown and Jeffrey 1995), and that may be favored or unavailable in nursery habitats or diets during larval silvery minnow development and growth.

Water Temperature: Georgakopoulou et al. (2010) described and elevated incidence (45-100 percent) of skeletal deformities including FODS in hatchery marine fish due to water temperatures during fish development. They suggested that colder water temperatures had a significant effect on skeletal deformities, especially FODS, and the mechanism was thermally induced alteration of the mechanisms of bone development. We then reviewed available water temperature data and observations of FODS in silvery minnow collected from this study and in historical silvery minnow collections.

In this study, we found the average percent frequency of shortened opercula was negatively correlated with average temperature ($r = -0.42$, $p = 0.007$), suggesting that cold temperatures may play a role in the incidence of FODS. Lusk (2012a) reported that the 95 percent confidence intervals for average water temperatures were colder during Year 2 (11.9-12.1°C) than Year 1 (13.9-14.1°C), and the overall incidence of shortened opercula was 89 and 50 percent, respectively. (While the average percent shortened opercula was also positively correlated with average dissolved oxygen content ($r = 0.50$, $p = 0.001$), we ascribed that correlation to the temperature-dependant solubility of oxygen in water as oxygen saturation was not significantly correlated with incidence of FODS).

We also evaluated the historical incidence of FODS in silvery minnows, with May and June monthly water temperatures (i.e., during larval silvery minnow development), and monthly discharges reported at the Rio Grande at Cochiti, New Mexico (USGS Gage 08314500), and after 1970, below Cochiti Dam, New Mexico (USGS Gage 08317400). We found significant, but not robust correlations, with May ($r = -0.10$) and June water temperatures ($r = 0.25$), as well as a significant correlation ($r = -0.44$) with the mean monthly June discharge. It is likely that monthly water temperature and discharge measurements at USGS gages were inadequate to characterize the quality of nursery habitats for silvery minnows and relate to the observation of FODs in historical silvery minnows.

Also, water temperatures have been found vary by location within the MRG habitat continuum. For example, Abeyta and Lusk (2004a) reported that water temperatures range from 0 to 5.8°C for 37 transects and averaged 1.3±1.3°C across the river widths. Similarly, SWCA Environmental Consultants (2010) described water temperatures in floodplain habitats ranging from 6 to 13°C warmer to 10°C colder than main channel temperatures measured in May and June. Additionally, silvery minnows hatched and

reared at the Dexter National Fish Hatchery and Technology Center have a high incidence but low severity of FODS and their water temperatures range from 22-23°C during early life stages and range from 20-30°C during juvenile development and growth (Sykes 2003; M. Ulibarri, USFWS, written communication, August 2010).

We do not know the thermal optima for proper skeletal development of silvery minnows; however, water temperatures that are either too cold or too warm during fish development may have the potential to cause of FODS in silvery minnows. Dettinger (2005) reported that trends toward earlier snowmelt peak flows in the Rio Grande may be related to observed changes in our climate and these trends may have concomitant changes in water temperatures that may occur during fish development. Additionally, altered water temperatures could also affect the relative availability of different algal species (e.g., Wang and Evans 1969) during larval silvery minnow development. Therefore, while there was some evidence that suggested water temperatures may play a role in the incidence of FODs in silvery minnows, additional research is warranted on this factor.

Mechano-transduction: The vertebrate skeleton responds to mechanical forces and proper mechanical stimulation is required for the maintenance of healthy bones, bone repair, bone density and bone development (Turner et al. 2009; Danos and Staab 2010). The proper formation, density, growth and maintenance of bones depends on the mechanical loads generated by gravity and muscles (Danos and Staab 2010). Mechanical loading by muscle forces affects larval and embryonic bone development when fish are beginning to interact with their environment (Danos and Staab 2010). Annual and peak flows in the Rio Grande Basin has been significantly reduced from historical hydrographs (Julien et al. 2005). However, reduced peak flows due to construction of Cochiti Dam would not likely have affected the incidence of FODS observed in silvery minnows collected before 1978 (Figure 18), although the general frequency of FODS appears to increase thereafter. Additionally, hatchery-reared fish are not commonly subjected to high flood flows during their development and therefore, mechano-transduction may help explain the severity of FODS in silvery minnows reared in hatcheries. As described above, there was a significant negative correlation between the incidence of FODs in historical silvery minnows and discharge measured at USGS gages. It remains unclear whether reduced peak flows or some other discharge-related mechanical forces are involved in the incidence of FODS in silvery minnows.

The incidence of FODS in native fishes of the Rio Grande and in the San Juan River is providing us a signal relaying a complex message in a simplified and useful manner to identify potential environmental stressors that have not been adequately characterized. From our review, it appears that 1) changes in water temperature during fish development, 2) nutritional conditions of the diets of fish early life stages, and 3) changes in discharge-related mechanical forces appear to be the most likely factors affecting the development of FODS in silvery minnows. Gaining a better understanding of their skeletal development in relation to these factors would be important for potentially identifying the causes and management actions needed to reduce the occurrence and effects of FODs in silvery minnows as well as other native fish species.

SUMMARY AND RECOMMENDATIONS

Overall, the anomalies observed at the greatest frequency in silvery minnows included shortened opercula, liver anomalies, and gill anomalies. The level of these anomalies and results on other silvery minnows collected and evaluated contemporaneously (Papoulias et al., 2009; Woodland 2012) suggested that these fish were experiencing chronic stress. Spatially, silvery minnows collected from the upper sites were often healthier than silvery minnows collected from the lower sites, as indicated by the fish health indices and other indicators that tended to increase from upstream to downstream. Particularly, the incidence these anomalies increased during the second year of this study. During Year 2 of this study, water quality conditions were similar except for several pesticides (NMED 2009), water temperature, specific conductivity, and suspended sediment measured at nearby USGS gages (Lusk 2011).

Where appropriate, fish health assessments are recommended for monitoring of silvery minnows over time as it helps quantify their overall condition in relation to various habitat and water quality conditions. We also recommend the expanded use pathogen assessments and histopathology integrated into fish and water quality monitoring programs as they will yield a better understanding of pathogen and tissue trends as they relate to water quality changes in the Rio Grande over time. We also recommend that research be initiated in determining the cause(s) and quantifying the effects of shortened opercula on feeding, swimming, respiration, and growth of Rio Grande silvery minnow.

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Table 1. Site number, site name name, latitude and longitude (in decimal degress) of a central point, and description of the RGSM Health Study sampling sites.

Site Number	Site Name	Latitude and Longitude (central point - decimal degrees)	Site Location Description
1	Rio Grande at Bernalillo, New Mexico	35.3181, -106.5589	approximately 0.1 mi upstream to 0.8 mi downstream of the Highway 550 Bridge crossing
2	Rio Grande at Alameda, New Mexico	35.2101, -106.6172	approximately 0.7 mi upstream and 1.1 mi downstream of AMAFCA North Diversion Channel mouth
3	Rio Grande at Los Padillas, New Mexico	34.9716, -106.6897	Just north of the Interstate 25 Bridge to approximately 5 mi upstream
4	Rio Grande at Los Lunas, New Mexico	34.8228, -106.7149	approximately 0.6 mi to 2.4 mi north of the Main Street (Highway 6) Bridge crossing
5	Rio Grande at La Joya, New Mexico	34.3073, -106.8493	approximately 2.4 mi to 3.8 mi north of the confluence with the Rio Salado
6	Rio Grande near San Antonio, New Mexico	33.8775, -106.8495	approximately 0.5 mi downstream and 1.2 mi upstream of Bosque del Apache National Wildlife Refuge (BdANWR) North Boundary

Appendix 2A. Fish Health Examination Datasheet.

U.S. Fish & Wildlife Service
FISH HEALTH EXAMINATION SHEET

Date: ___/___/___ Fish ID# _____

Capture Time: _____ External Photo ☐

Workup START Time: _____

SPECIES: _____ **Initials:**

RECORDER:_____

Total ***Weight***: _____ (g) Total ***Length***: _____ (mm)

Gender: ☐Male ☐Female

DISSECTOR:_____

EXTERNAL EXAM: ***(check all that apply)*** ***Note any condition caused by capture or holding method.**

EYES:

Left:
☐normal ☐opaque ☐OTHER *specify:*
☐exophthalmic ☐missing _____
☐hemorrhagic ☐emboli _____
in fixative _____ _____
of Photos _____

Right:
☐normal ☐opaque ☐OTHER *specify:*
☐exophthalmic ☐missing _____
☐hemorrhagic ☐emboli _____
in fixative _____
of Photos _____

HEAD:
☐normal ☐OTHER *specify:*
☐tumors _____
☐lesions _____
☐parasite _____
in fixative _____
of Photos _____

BODY SURFACE:
☐normal ☐OTHER *specify:*
☐tumors _____
☐lesions _____
☐parasite _____
in fixative _____
of Photos _____

OPERCLES:

Right:
☐normal ☐OTHER *specify:*
☐slight shortening _____
☐severe shortening _____
in fixative _____
of Photos _____

Left:
☐normal ☐OTHER *specify:*
☐slight shortening _____
☐severe shortening _____
in fixative _____
of Photos _____

GILLS:

Left:
☐normal ☐marginate ☐OTHER *specify:*
☐frayed ☐pale _____
☐clubbed ☐parasites _____
VIAL NAME_____ _____
in fixative _____
of Photos _____

Right:
☐normal ☐marginate ☐OTHER *specify:*
☐frayed ☐pale _____
☐clubbed ☐parasites _____
VIAL NAME_____ _____
in fixative _____
of Photos _____

FINS: ***Note any condition caused by capture or holding method.**

Pectoral _____
Pelvic _____
Anal _____
Caudal _____
Dorsal _____
in fixative _____
of Photos _____

Fin Observation Key:
(N) normal
(M) mild erosion
(S) severe erosion
(F) frayed
(H) hemorrhagic
(E) emboli
(OT) Other – *specify*

OTHER *specify*:
_____
_____
_____
_____

NOTE: Any tissues taken during external examination should be described on this datasheet, placed in a histological vial, preserved and labeled appropriately.

REVIEWER'S INITIALS _____

Appendix 2A (continued).

INTERNAL EXAM: ***(check all that apply)***

Fish ID# _____

Internal Photo ☐

LIVER:

☐dark to light red (normal)
☐tan (coffee with cream)
☐general (overall) discoloration
☐focal (mottled) discoloration
☐nodules

☐OTHER *specify:* _____

Weight _____(0.1g) *without gallbladder*

VIAL NAME_____
in fixative _____
of Photos _____

BILE:

Fullness:
☐empty
☐partly full
☐full

Color:
☐N/A (empty)
☐yellow
☐light-grass green
☐dark green to blue green

☐OTHER *specify:* _____

SPLEEN:

☐red to black (normal)
☐granular
☐nodular
☐enlarged

☐OTHER *specify:* _____

Weight _____(0.002g)

VIAL NAME_____
in fixative _____
of Photos _____

GONADS:

Gender:
☐male
☐female
☐juvenile

Development:
☐ripe
☐spent
☐intermediate

☐OTHER *specify:* _____

Weight _____(0.1g)

VIAL NAME_____
in fixative _____
of Photos _____

MESENTERIC FAT:

☐no fat ☐slight fat ☐50% ☐>50% ☐completely covered ☐parasites ☐OTHER

in fixative _____
of Photos _____

KIDNEY:

☐normal
☐swollen
☐mottled
☐granular
☐urolithiasis

☐OTHER *specify:* _____

in fixative _____
of Photos _____

Hind:
☐normal
☐swollen
☐mottled
☐granular
☐urolithiasis

☐OTHER *specify:* _____

in fixative _____
of Photos _____

Sample Summary:

☐None taken ☐Gill ☐Liver ☐Spleen ☐Gonad ☐OTHER: _____

Workup END Time: _____

RECORDER'S INITIALS: _____ **DISSECTOR' INITIALS:** _____ **REVIEWER'S INITIALS:** _____

NOTES: _____

Appendix 2B. Fish health assessment variables and assigned values. [Field designations as described in Adams et al. 1992; adapted from Schmitt and Dethloff 2000, and described below]

Variable	Variable condition	Field Designation	Value Assigned
Eyes	Normal: no aberration	N	0
	Opaque (one or both)	O	30
	Exopthalmic (one or both)	E	30
	Emboli (one or both)	E	30
	Hemorrhaging (one or both)	H	30
	Missing (one or both)	M	30
	Other: aberration not fitting any above	OT	30
Body Surface (Skin)	Normal: no aberration	N	0
	Mild skin aberrations		10
	Moderate skin aberrations		20
	Severe skin aberrations (tumors, lesions, parasites)	T, L, P	30
Gills	Normal: no aberrations	N	0
	Frayed: ragged appearance (one or both)	F	30
	Clubbed: swelling of tips (one or both)	C	30
	Marginate: light discolored margins (one or both)	M	30
	Pale, very light color (one or both)	P	30
	Parasites (one or both)	P	30
	Other: aberration not fitting any above	OT	30
Fins	No active erosion	N	0
	Mild active erosion	M	10
	Moderate active erosion, some hemorrhage	M, H	20
	Severe active erosion with hemorrhage	S, H	30
Liver	Normal: solid red or light red color	NORMAL	0
	Tan: fatty or coffee w/ cream color	TAN	30
	Nodules or cysts	NOD	30
	Focal discoloration	FOC DIS	30
	General discoloration	GEN DIS	30
Spleen	Normal: Black, dark red to red	RED	0
	Granular: rough appearance	GRAN	0
	Nodular, containing fistulas or nodules	NOD	30
	Enlarged	ENLG	30
	Other: aberration not fitting any above	OT	30
Kidney	Normal: firm, dark, flat	N	0
	Swollen: enlarged or swollen	S	30
	Mottled: gray discoloration	M	30
	Granular in appearance and texture	G	30
	Urolithiasis or nephrocalcinosis: white mineral deposits	U	30
	Other: aberration not fitting any above	OT	30

Appendix 2C. Rio Grande silvery minnow examined during Year 1 and Year 2. [See Table 1 for Site number, name, and location]

Year 1 (2006-2007) Number of Fish used in Fish Health Assessment

Jul-06					
Date	**Site**	***n***	**Female**	**Male**	**Indeterminate**
7/27/2006	1	30	11	3	16
7/26/2006	2	30	3	0	27
7/25/2006	3	11	3	1	7
7/20/2006	4	30	13	0	17
7/19/2006	5	30	15	0	15
7/18/2006	6	27	5	1	21
		158	50	5	103
Oct-06					
Date	**Site**	***n***	**Female**	**Male**	**Indeterminate**
10/11/2006	1	27	12	6	9
10/12/2006	2	30	14	10	6
10/17/2006	3	18	8	10	0
10/16/2006	4	30	16	14	0
10/18/2006	5	27	22	3	2
	6	NO FISH			
		132	72	43	17
Jan-07					
Date	**Site**	***n***	**Female**	**Male**	**Indeterminate**
	1	NO FISH			
1/24/2007	2	17	10	7	0
1/23/2007	3	30	15	14	1
2/1/2007	4	30	15	15	0
1/31/2007	5	26	14	5	7
1/30/2007	6	30	16	14	0
		133	70	55	8
Apr-07					
Date	**Site**	***n***	**Female**	**Male**	**Indeterminate**
4/26/2007	1	15	3	12	0
4/25/2007	2	30	21	9	0
4/24/2007	3	19	12	7	0
4/19/2007	4	14	8	6	0
4/18/2007	5	15	6	8	1
	6	NO FISH			
		93	50	42	1

Total *n*	**Total Female**	**Total Male**	**Total Indeterminate**
516	242	145	129

Appendix 2C (continued).

Year 2 (2007-2008) Number of Fish used in Fish Health Assessment

Oct-07

Date	Site	*n*	Female	Male	Indeterminate
10/31/2007	1	25	15	4	6
10/30/2007	2	20	9	4	7
10/29/2007	3	15	10	5	0
10/25/2007	4	25	15	5	5
10/24/2007	5	20	11	7	2
10/23/2007	6	13	7	6	0
		118	67	31	20

Jan-08

Date	Site	*n*	Female	Male	Indeterminate
1/30/2008	1	30	13	17	0
1/29/2008	2	30	16	14	0
1/28/2008	3	30	20	8	2
1/24/2008	4	30	16	14	0
1/23/2008	5	30	13	17	0
1/22/2008	6	30	17	13	0
		180	95	83	2

Apr-08

Date	Site	*n*	Female	Male	Indeterminate
4/16/2008	1	30	14	16	0
4/15/2008	2	30	14	16	0
4/14/2008	3	30	17	13	0
4/8/2008	4	30	15	15	0
	5	NO FISH			
4/9/2008	6	15	11	4	0
		135	71	64	0

Jul-08

Date	Site	*n*	Female	Male	Indeterminate
7/16/2008	1	30	18	12	0
7/15/2008	2	26	15	11	0
7/14/2008	3	6	6	0	0
7/10/2008	4	20	8	6	6
7/9/2008	5	9	0	0	9
7/8/2008	6	30	0	0	30
		121	47	29	45

Total *n*	Total Female	Total Male	Total Indeterminate
554	280	207	67

Appendix 2D. Total length (in millimeters) of Rio Grande silvery minnow collected from the Rio Grande during 2006–2007 (Year 1). [See Table 1 for site number, name, and locations. Sites are listed from upstream to downstream. Sample size (*n*), arithmetic mean (Mean), standard deviation (SD), and Range are provided]

	July 2006 (summer)				October 2006 (fall)				January 2007 (winter)				April 2007 (spring)			
Site	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**
1	30	70.6	4.46	57-77	27	60.7	6.2	51-80	--	--	--	--	15	75.4	11.0	46-85
2	30	71.1	4.90	64-81	30	70.2	11.9	49-86	17	67.6	9.57	51-85	30	58.5	9.95	45-83
3	11	74.5	6.80	61-84	18	80.6	9.5	64-98	30	75.0	11.1	53-92	19	59.6	6.29	47-72
4	30	67.7	4.44	57-77	30	78.5	6.5	54-85	30	79.9	7.06	62-90	14	79.6	7.91	98-91
5	30	71.4	4.70	60-78	27	76.4	12.1	57-94	26	53.8	12.1	42-98	15	60.7	12.8	45-90
6	27	65.4	4.77	52-74	--	--	--	--	30	79.3	6.32	65-89	--	--	--	--

Appendix 2D (Continued). Total length (in millimeters) of Rio Grande silvery minnow collected from the Rio Grande during 2007–2008 (Year 2). [See Table 1 for site number, name, and locations. Sites are listed from upstream to downstream. Sample size (*n*), arithmetic mean (Mean), standard deviation (SD), and Range are provided.

	October 2006 (fall)				January 2007 (winter)				April 2007 (spring)				July 2008 (summer)			
Site	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**
1	25	53.2	4.05	45-62	30	52.0	1.62	38-75	30	50.4	6.13	41-62	30	65.7	3.36	59-75
2	20	56.5	5.50	50-76	30	61.4	8.79	51-93	30	56.2	9.16	42-78	26	64.3	3.02	58-71
3	15	70.9	6.39	59-82	30	58.3	8.33	45-76	30	62.8	8.21	50-85	6	67.7	10.6	56-85
4	25	59.9	5.10	50-69	30	58.1	5.36	47-70	30	54.9	6.79	46-75	20	58.5	17.6	32-83
5	20	67.7	4.56	59-75	30	68.6	7.71	36-80	--	--	--	--	9	35.9	2.32	33-40
6	13	64.2	3.52	45-92	30	62.1	10.4	40-81	15	65.6	7.50	54-83	30	41.7	4.21	35-53

Appendix 2E. Weight (grams) of Rio Grande silvery minnow collected from the Rio Grande during 2006–2007 (Year 1).

[See Table 1 for site number, name, and locations. Sites are listed from upstream to downstream. Sample size (n), arithmetic mean (Mean), standard deviation (SD), and range are provided]

	July 2006 (summer)				October 2006 (fall)				January 2007 (winter)				April 2007 (spring)			
Site	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**
1	30	2.882	0.56	1.526-4.048	27	1.633	0.57	0.809-3.540	--	--	--	--	15	4.187	1.42	1.007-6.168
2	30	3.083	0.71	1.839-4.598	30	2.869	1.2	0.962-4.852	17	2.241	0.92	0.862-4.333	30	1.963	1.25	0.730-5.943
3	11	3.523	0.85	2.122-4.691	18	4.401	1.5	1.955-7.835	30	3.393	1.49	1.012-6.535	19	2.183	0.73	1.153-3.372
4	30	2.765	0.54	1.617-3.679	30	4.211	0.89	1.519-5.585	30	4.281	1.09	1.802-6.195	14	5.306	1.79	2.812-7.820
5	30	2.917	0.54	2.021-3.945	27	4.066	1.85	1.521-7.121	26	1.498	1.44	0.589-7.981	15	2.222	1.65	0.920-6.890
6	27	2.246	0.45	1.440-3.240	--	--	--	--	30	4.290	0.99	2.361-6.318	--	--	--	--

Appendix 2E (Continued). Weight (grams) of Rio Grande silvery minnow collected from the Rio Grande during 2007–2008 (Year 2). [See Table 1 for site number, name, and locations. Sites are listed from upstream to downstream. Sample size (n), arithmetic mean (Mean), standard deviation (SD), and range are provided]

	October 2007 (fall)				January 2008 (winter)				April 2008 (spring)				July 2008 (summer)			
Site	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**
1	25	1.197	0.31	0.734-1.988	30	1.185	0.74	0.449-3.303	30	1.302	0.48	0.618-2.403	30	2.276	0.43	1.626-3.499
2	20	1.533	0.63	1.058-4.006	29	1.887	1.05	0.945-6.085	30	1.832	0.90	0.671-4.368	26	2.272	0.31	1.783-2.852
3	15	3.245	0.97	1.497-5.390	30	1.551	0.74	0.606-3.389	30	2.766	1.22	1.317-7.304	6	3.080	1.64	1.343-6.037
4	25	1.757	0.37	0.935-2.641	30	1.625	0.47	0.765-3.022	30	1.683	0.75	0.786-4.496	20	2.018	1.36	0.249-4.973
5	20	2.522	0.58	1.403-3.558	30	2.764	0.80	0.585-4.551	--	--	--	--	9	0.438	0.09	0.330-0.560
6	13	2.458	1.32	0.720-5.416	30	2.085	1.06	0.575-4.492	15	2.698	1.12	1.027-5.668	30	0.692	0.21	0.444-1.367

Appendix 2F. Splenosomatic Index (SSI) of Rio Grande silvery minnows collected from the Rio Grande during 2006–2007 (Year 1). [See Table 1 for site number, name, and locations. Sites are listed from upstream to downstream. Sample size (n), arithmetic mean (Mean), standard deviation (SD), and range are provided]

	July 2006 (summer)				October 2006 (fall)				January 2007 (winter)				April 2007 (spring)			
Site	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**	***n***	**Mean**	**SD**	**Range**
1	30	0.21	0.20	0.03-0.68	27	0.13	0.12	0.05-0.68	--	--	--	--	15	0.10	0.06	0.03-0.24
2	30	0.20	0.21	0.03-0.98	30	0.11	0.05	0.05-0.23	17	0.10	0.09	0.02-0.41	30	0.13	0.13	0.02-0.56
3	11	0.23	0.16	0.02-0.52	18	0.12	0.03	0.06-0.19	30	0.09	0.05	0.03-0.22	19	0.07	0.04	0.03-0.15
4	30	0.08	0.05	0.03-0.24	30	0.09	0.03	0.02-0.17	30	0.10	0.06	0.04-0.35	14	0.09	0.05	0.04-0.19
5	30	0.11	0.08	0.03-0.30	27	0.08	0.03	0.04-0.16	26	0.09	0.07	0.04-0.36	15	0.06	0.04	0.02-0.17
6	27	0.16	0.10	0.04-0.43	--	--	--	--	30	0.10	0.05	0.03-0.24	--	--	--	--

Appendix 2F (Continued). Splenosomatic Index (SSI) of Rio Grande silvery minnows collected from the Rio Grande during 2007–2008 (Year 2). [See Table 1 for site number, name, and locations. Sites are listed from upstream to downstream. Sample size (n), arithmetic mean (Mean), standard deviation (SD), and range are provided]

	October 2007 (fall)				January 2008 (winter)				April 2008 (spring)				July 2008 (summer)			
Site	[1]***n***	**Mean**	**SD**	**Range**	[2]***n***	**Mean**	**SD**	**Range**	[1]***n***	**Mean**	**SD**	**Range**	[1]***n***	**Mean**	**SD**	**Range**
1	25	0.13	0.11	0.03-0.44					30	0.09	0.08	0.03-0.37	30	0.31	0.11	0.15-0.55
2	20	0.11	0.09	0.03-0.36					30	0.09	0.06	0.04-0.33	26	0.26	0.14	0.02-0.48
3	15	0.50	0.76	0.10-2.87					30	0.08	0.06	0.03-0.27	--	--	--	--
4	25	0.15	0.10	0.03-0.37					30	0.08	0.06	0.02-0.21	20	0.17	0.12	0.05-0.32
5	20	0.10	0.08	0.02-0.27					--	--	--	--	--	--	--	--
6	13	0.09	0.05	0.03-0.17					15	0.08	0.05	0.04-0.16	--	--	--	--

[1]Spleen weight not recorded for all fish at each site.
[2]No spleen weight recorded during January sampling.

Appendix 2G. Distribution of Health Assessment Index (HAI) scores from Rio Grande silvery minnows collected from the Rio Grande during 2006–2007 (Year 1). [Sample size (n), arithmetic mean (Mean), and standard error (SE) are provided]

	Health Assessment Index (HAI) Score																			
Season	**0**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**	**140**	**150**	**160**	***n***	**Mean**	**SE**
July 2006	9	8	3	18	25	6	13	26	6	8	20	4	5	5	0	0	2	158	62	5.61
Oct 2006	23	8	2	37	17	1	18	14	0	11	6	0	2	2	1	0	0	132	45	5.87
Jan 2007	13	5	2	24	14	3	27	21	0	13	8	0	1	1	0	0	1	133	53	5.34
Apr 2007	12	7	0	10	20	12	5	10	3	2	4	3	1	2	0	0	2	93	50	7.45

Appendix 2G (Continued). Distribution of Health Assessment Index (HAI) scores from Rio Grande silvery minnows collected from the Rio Grande during 2007–2008 (Year 2). [Sample size (n), arithmetic mean (Mean), and standard error (SE) are provided]

	Health Assessment Index (HAI) Score																			
Season	**0**	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**	**140**	**150**	**160**	***n***	**Mean**	**SE**
Oct 2007	4	6	1	9	21	4	5	33	7	3	10	3	2	7	0	1	2	118	66	3.25
Jan 2008	0	2	1	21	5	1	107	6	7	19	3	1	6	1	0	0	0	180	63	1.58
Apr 2008	2	10	0	3	34	2	4	40	5	7	17	2	3	5	0	0	1	135	65	2.73
July 2008	1	9	2	7	31	1	4	33	3	6	16	4	2	1	0	0	1	121	62	2.82

Appendix 2H**.** Percent abnormalities observed in Rio Grande silvery minnows during Year 1 (2006-2007) and Year 2 (2007-2008) of the Rio Grande Silvery Minnow Health Study.

Anomalies	**Year 1 Percent (n = 516)**	**Year 2 Percent (n = 554)**
Shortened Opercula	50 (n = 260)	89 (n = 494)
External Lesions/Tumors[1]	25 (n = 127)	13 (n = 71)
Gill abnormalities	44 (n = 179)	56 (n = 279)
Liver abnormalities	45 (n = 233)	59 (n = 326)
Spleen abnormalities	22 (n = 125)	9 (n = 59)
Kidney abnormalities	16 (n = 82)	24 (n = 135)

[1]External Lesions/Tumors include all body surface, head, eye and fin anomalies observed.

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
100-(((1/3)*1(	7/27/2006	)0-(((1/3)*1(	2006	)0-(((1/3)*1(	WJR06-468	I	3.277	74	N	N	N	N	.00-(((1/3)*10(	00-(((1/3)*10(	N
7/06/1-71	7/27/2006	1	2006	1	WJR06-468	F	3.164	71	N	N	N	N	2	1	N
7/06/1-72	7/27/2006	1	2006	1	WJR06-468	I	2.822	69	N	N	N	N	2	2	N
7/06/1-73	7/27/2006	1	2006	1	WJR06-468	F	3.384	76	N	N	N	N	0	0	F
7/06/1-74	7/27/2006	1	2006	1	WJR06-468	F	3.233	75	N	N	OT	OT	2	2	N
7/06/1-75	7/27/2006	1	2006	1	WJR06-468	I	3.494	77	N	N	N	N	2	2	N
7/06/1-76	7/27/2006	1	2006	1	WJR06-468	F	2.647	70	N	N	N	N	1	1	N
7/06/1-77	7/27/2006	1	2006	1	WJR06-468	I	1.667	60	N	N	N	N	0	0	N
7/06/1-78	7/27/2006	1	2006	1	WJR06-468	M	3.289	73	N	N	N	N	0	0	N
7/06/1-79	7/27/2006	1	2006	1	WJR06-468	I	3.116	75	N	N	N	N	1	2	F
7/06/1-80	7/27/2006	1	2006	1	WJR06-468	I	2.924	72	N	N	N	N	0	0	FP
7/06/1-81	7/27/2006	1	2006	1	WJR06-468	I	2.818	72	N	N	N	N	0	0	FP
7/06/1-82	7/27/2006	1	2006	1	WJR06-468	F	2.547	70	N	N	N	N	0	0	FP
7/06/1-83	7/27/2006	1	2006	1	WJR06-468	I	3.002	71	N	N	N	N	0	0	N
7/06/1-84	7/27/2006	1	2006	1	WJR06-468	I	2.871	72	N	N	N	N	0	0	N
7/06/1-85	7/27/2006	1	2006	1	WJR06-468	F	2.843	71	N	N	0	L OT	0	0	N
7/06/1-86	7/27/2006	1	2006	1	WJR06-468	F	3.860		N	N	N	N	0	0	N
7/06/1-87	7/27/2006	1	2006	1	WJR06-468	F	3.268	73	N	N	N	N	0	0	N
7/06/1-88	7/27/2006	1	2006	1	WJR06-468	I	3.021	74	N	N	N	N	0	0	N
7/06/1-89	7/27/2006	1	2006	1	WJR06-468	F	2.064		N	N	N	N	0	0	N
7/06/1-90	7/27/2006	1	2006	1	WJR06-468	I	1.526	57	N	N	N	N	1	1	P
7/06/1-91	7/27/2006	1	2006	1	WJR06-468	M	2.972	73	N	N	N	N	0	0	N
7/06/1-92	7/27/2006	1	2006	1	WJR06-468	I	2.643	68	N	N	N	N	0	0	N
7/06/1-93	7/27/2006	1	2006	1	WJR06-468	I	4.048		N	N	N	N	0	0	N
7/06/1-94	7/27/2006	1	2006	1	WJR06-468	F	2.386	67	N	N	N	N	0	0	N
7/06/1-95	7/27/2006	1	2006	1	WJR06-468	F	3.122	72	N	N	N	N	0	0	N
7/06/1-96	7/27/2006	1	2006	1	WJR06-468	I	2.092	65	N	N	N	N	0	0	N
7/06/1-97	7/27/2006	1	2006	1	WJR06-468	I	2.415	68	N	N	N	N	0	0	N
7/06/1-98	7/27/2006	1	2006	1	WJR06-468	I	2.841	71	N	N	N	N	1	2	N
7/06/1-99	7/27/2006	1	2006	1	WJR06-468	M	3.098	71	N	N	N	N	0	2	N
7/06/2-70	7/26/2006	1	2006	2	WJR06-466	I	3.778	77	N	N	N	N	1	1	N
7/06/2-71	7/26/2006	1	2006	2	WJR06-466	I	2.636	68	N	N	L	N	1	1	N
7/06/2-72	7/26/2006	1	2006	2	WJR06-466	I	3.529	73	N	N	N	N	1	1	N
7/06/2-73	7/26/2006	1	2006	2	WJR06-466	I	3.767	76	OT	N	N	N	1	1	F
7/06/2-74	7/26/2006	1	2006	2	WJR06-466	I	3.356	73	N	N	OT	L	0	0	N
7/06/2-75	7/26/2006	1	2006	2	WJR06-466	I	2.684	69	N	N	N	N	0	0	N
7/06/2-76	7/26/2006	1	2006	2	WJR06-466	I	2.967	71	N	N	N	N	0	0	P
7/06/2-77	7/26/2006	1	2006	2	WJR06-466	I	3.554	74	N	N	N	L	1	1	N
7/06/2-78	7/26/2006	1	2006	2	WJR06-466	I	3.609	77	N	H	OT	N	0	0	N
7/06/2-79	7/26/2006	1	2006	2	WJR06-466	I	3.205	76	N	N	N	L	1	1	C P
7/06/2-80	7/26/2006	1	2006	2	WJR06-466	I	2.527	64	N	N	N	L	1	1	N
7/06/2-81	7/26/2006	1	2006	2	WJR06-466	I	2.797	67	N	N	N	N	0	0	P
7/06/2-82	7/26/2006	1	2006	2	WJR06-466	I	3.895	75	N	N	N	L P	0	0	N
7/06/2-83	7/26/2006	1	2006	2	WJR06-466	I	3.185	70	N	N	N	N	0	0	N
7/06/2-84	7/26/2006	1	2006	2	WJR06-466	F	4.494	81	N	N	N	N	1	1	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
7/06/2-85	7/26/2006	1	2006	2	WJR06-466	I	2.514	68	N	N	N	N	1	1	N
7/06/2-86	7/26/2006	1	2006	2	WJR06-466	I	2.504	66	N	N	N	N	1	1	N
7/06/2-87	7/26/2006	1	2006	2	WJR06-466	I	2.530	68	N	N	L	N	1	1	N
7/06/2-88	7/26/2006	1	2006	2	WJR06-466	I	2.833	72	N	N	N	N	1	1	N
7/06/2-89	7/26/2006	1	2006	2	WJR06-466	I	1.983	64	N	N	N	N	2	2	N
7/06/2-90	7/26/2006	1	2006	2	WJR06-466	I	2.379	66	N	N	OT	N	1	1	N
7/06/2-91	7/26/2006	1	2006	2	WJR06-466	I	1.839	64	N	H	N	N	0	0	P
7/06/2-92	7/26/2006	1	2006	2	WJR06-466	F	4.197	80	N	N	N	N	1	1	N
7/06/2-93	7/26/2006	1	2006	2	WJR06-466	I	3.351	74	N	N	N	N	1	1	N
7/06/2-94	7/26/2006	1	2006	2	WJR06-466	I	2.338	67	N	N	N	N	0	0	N
7/06/2-95	7/26/2006	1	2006	2	WJR06-466	I	3.451	71	N	N	N	OT	1	1	N
7/06/2-96	7/26/2006	1	2006	2	WJR06-466	I	2.968	72	N	N	N	N	0	0	N
7/06/2-97	7/26/2006	1	2006	2	WJR06-466	F	4.598	78	N	N	OT	N	0	0	N
7/06/2-98	7/26/2006	1	2006	2	WJR06-466	I	2.330	67	N	N	OT	N	0	0	N
7/06/2-99	7/26/2006	1	2006	2	WJR06-466	I	2.685	66	N	N	N	N	0	0	N
7/06/3-70	7/25/2006	1	2006	3	WJR06-464	I	4.691	76	N	N	N	N	1	1	N
7/06/3-71	7/25/2006	1	2006	3	WJR06-464	I	2.458	67	N	N	N	N	1	2	P
7/06/3-72	7/25/2006	1	2006	3	WJR06-464	F	4.362	84	N	H	N	N	2	2	FPP
7/06/3-73	7/25/2006	1	2006	3	WJR06-464	I	3.816	77	N	N	N	N	1	1	OT
7/06/3-74	7/25/2006	1	2006	3	WJR06-464	I	2.122	61	N	N	N	N	1	1	N
7/06/3-75	7/25/2006	1	2006	3	WJR06-464	I	2.602	68	N	N	N	N	1	1	FP
7/06/3-76	7/25/2006	1	2006	3	WJR06-464	F	3.488	77	N	N	N	N	0	0	F
7/06/3-77	7/25/2006	1	2006	3	WJR06-464	M	3.470	76	N	N	N	L	1	0	N
7/06/3-78	7/25/2006	1	2006	3	WJR06-464	F	4.495	83	N	N	N	N	1	1	N
7/06/3-79	7/25/2006	1	2006	3	WJR06-464	I	3.956	76	N	N	OT	N	1	1	N
7/06/3-80	7/25/2006	1	2006	3	WJR06-464	I	3.296	74	N	N	N	N	1	1	N
7/06/4-70	7/20/2006	1	2006	4	WJR06-462	F	3.013	68	N	N	N	N	1	1	N
7/06/4-71	7/20/2006	1	2006	4	WJR06-462	I	3.017	69	N	N	N	N	0	0	N
7/06/4-72	7/20/2006	1	2006	4	WJR06-462	F	2.310	65	N	N	N	N	0	0	P
7/06/4-73	7/20/2006	1	2006	4	WJR06-462	F	3.613	75	N	N	N	LP	0	0	N
7/06/4-74	7/20/2006	1	2006	4	WJR06-462	F	2.798	66	N	N	N	N	0	1	N
7/06/4-75	7/20/2006	1	2006	4	WJR06-462	I	2.947	69	N	N	N	N	1	1	N
7/06/4-76	7/20/2006	1	2006	4	WJR06-462	F	2.558	64	N	N	N	N	1	0	P OT
7/06/4-77	7/20/2006	1	2006	4	WJR06-462	F	2.358	66	N	N	N	N	1	2	N
7/06/4-78	7/20/2006	1	2006	4	WJR06-462	F	2.781	65	N	N	N	N	0	1	N
7/06/4-79	7/20/2006	1	2006	4	WJR06-462	F	3.508	72	N	N	N	N	0	0	N
7/06/4-80	7/20/2006	1	2006	4	WJR06-462	I	2.809	67	N	N	N	N	0	1	N
7/06/4-81	7/20/2006	1	2006	4	WJR06-462	I	2.745	67	N	N	N	N	1	1	N
7/06/4-82	7/20/2006	1	2006	4	WJR06-462	F	3.136	69	N	N	N	N	0	0	N
7/06/4-83	7/20/2006	1	2006	4	WJR06-462	F	1.928	62	N	N	N	N	1	1	N
7/06/4-84	7/20/2006	1	2006	4	WJR06-462	F	2.829	68	N	N	N	N	1	1	N
7/06/4-85	7/20/2006	1	2006	4	WJR06-462	F	3.221	72	N	N	N	N	0	0	F
7/06/4-86	7/20/2006	1	2006	4	WJR06-462	I	1.884		N	N	N	N	1	1	F
7/06/4-87	7/20/2006	1	2006	4	WJR06-462	F	2.016	64	N	N	N	L	0	1	N
7/06/4-88	7/20/2006	1	2006	4	WJR06-462	I	3.288	77	N	N	N	LP	0	0	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
7/06/4-89	7/20/2006	1	2006	4	WJR06-462	I	2.764	70	N	N	L	N	1	1	N
7/06/4-90	7/20/2006	1	2006	4	WJR06-462	I	2.946	69	N	N	N	N	0	0	N
7/06/4-91	7/20/2006	1	2006	4	WJR06-462	I	2.868	68	N	N	N	N	1	1	F
7/06/4-92	7/20/2006	1	2006	4	WJR06-462	I	1.933	58	N	N	N	N	0	0	N
7/06/4-93	7/20/2006	1	2006	4	WJR06-462	I	1.617	57	N	N	N	N	1	1	N
7/06/4-94	7/20/2006	1	2006	4	WJR06-462	I	3.451	72	N	N	N	N	1	1	N
7/06/4-95	7/20/2006	1	2006	4	WJR06-462	I	2.407	67	N	N	N	N	1	1	N
7/06/4-96	7/20/2006	1	2006	4	WJR06-462	I	2.712	65	N	N	N	N	1	1	N
7/06/4-97	7/20/2006	1	2006	4	WJR06-462	I	3.275	72	N	N	N	N	1	1	FP
7/06/4-98	7/20/2006	1	2006	4	WJR06-462	I	2.534	68	N	N	N	LP	1	1	FP
7/06/4-99	7/20/2006	1	2006	4	WJR06-462	I	3.679	73	N	N	N	N	1	1	CM
7/06/5-70	7/19/2006	1	2006	5	WJR06-461	F	2.499	66	N	N	N	N	1	1	N
7/06/5-71	7/19/2006	1	2006	5	WJR06-461	F	2.712	72	N	N	N	N	1	1	N
7/06/5-72	7/19/2006	1	2006	5	WJR06-461	F	3.669	77	N	N	N	L	0	1	N
7/06/5-73	7/19/2006	1	2006	5	WJR06-461	F	2.061	60	N	N	L	N	1	0	N
7/06/5-74	7/19/2006	1	2006	5	WJR06-461	F	2.522	69	N	N	N	N	1	1	N
7/06/5-75	7/19/2006	1	2006	5	WJR06-461	F	2.675	71	N	N	N	L	1	1	N
7/06/5-76	7/19/2006	1	2006	5	WJR06-461	F	3.362	74	N	N	LP	N	0	0	N
7/06/5-77	7/19/2006	1	2006	5	WJR06-461	F	2.929	72	N	N	N	N	2	1	N
7/06/5-78	7/19/2006	1	2006	5	WJR06-461	I	2.021	63	N	N	N	N	2	2	P
7/06/5-79	7/19/2006	1	2006	5	WJR06-461	I	3.417	74	N	N	N	N	0	1	N
7/06/5-80	7/19/2006	1	2006	5	WJR06-461	I	3.768	76	N	N	N	N	1	1	N
7/06/5-81	7/19/2006	1	2006	5	WJR06-461	F	2.906	73	N	N	N	N	1	1	F
7/06/5-82	7/19/2006	1	2006	5	WJR06-461	F	3.417	78	N	N	N	OT	1	1	N
7/06/5-83	7/19/2006	1	2006	5	WJR06-461	I	2.944	68	N	N	N	N	0	0	F
7/06/5-84	7/19/2006	1	2006	5	WJR06-461	I	3.341	74	N	N	N	L	0	0	N
7/06/5-85	7/19/2006	1	2006	5	WJR06-461	I	3.471	76	N	N	N	P	1	1	N
7/06/5-86	7/19/2006	1	2006	5	WJR06-461	I	3.283	76	N	N	N	N	1	1	N
7/06/5-87	7/19/2006	1	2006	5	WJR06-461	I	2.718	72	N	N	N	N	1	1	N
7/06/5-88	7/19/2006	1	2006	5	WJR06-461	I	2.772	70	N	N	N	N	2	0	N
7/06/5-89	7/19/2006	1	2006	5	WJR06-461	I	2.309	68	N	N	N	N	1	1	F
7/06/5-90	7/19/2006	1	2006	5	WJR06-461	F	3.311	77	N	N	N	L	1	1	N
7/06/5-91	7/19/2006	1	2006	5	WJR06-461	F	2.261	66	N	N	N	P	1	0	N
7/06/5-92	7/19/2006	1	2006	5	WJR06-461	F	3.945	77	N	N	N	L	1	1	N
7/06/5-93	7/19/2006	1	2006	5	WJR06-461	F	3.102	75	N	N	N	N	1	1	F
7/06/5-94	7/19/2006	1	2006	5	WJR06-461	I	2.688	69	N	N	N	N	1	1	N
7/06/5-95	7/19/2006	1	2006	5	WJR06-461	I	3.664	77	N	N	N	N	1	1	CP
7/06/5-96	7/19/2006	1	2006	5	WJR06-461	I	2.599	72	N	N	N	N	1	1	P
7/06/5-97	7/19/2006	1	2006	5	WJR06-461	I	2.191	65	N	N	N	N	2	1	N
7/06/5-98	7/19/2006	1	2006	5	WJR06-461	I	2.410	66	N	N	N	N	2	1	N
7/06/5-99	7/19/2006	1	2006	5	WJR06-461	F	2.540	69	N	N	N	P	0	2	CM
7/06/6-70	7/18/2006	1	2006	6	SRD06-045	I	2.313	65	N	N	N	N	1	1	FP
7/06/6-71	7/18/2006	1	2006	6	SRD06-045	I	2.660	67	N	N	N	N	1	0	C
7/06/6-72	7/18/2006	1	2006	6	SRD06-045	I	3.000	72	N	N	N	N	1	1	N
7/06/6-73	7/18/2006	1	2006	6	SRD06-045	I	3.240	74	N	N	N	N	0	1	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
7/06/6-74	7/18/2006	1	2006	6	SRD06-045	I	2.130	62	N	N	N	N	0	0	N
7/06/6-75	7/18/2006	1	2006	6	SRD06-045	I	2.190	66	N	N	N	N	0	1	N
7/06/6-76	7/18/2006	1	2006	6	SRD06-045	I	2.640	71	N	N	N	N	1	1	N
7/06/6-77	7/18/2006	1	2006	6	SRD06-045	I	1.440	52	N	N	N	N	0	1	N
7/06/6-78	7/18/2006	1	2006	6	SRD06-045	I	2.570	68	N	N	N	N	0	1	F
7/06/6-79	7/18/2006	1	2006	6	SRD06-045	I	2.322	65	N	N	N	N	0	0	N
7/06/6-80	7/18/2006	1	2006	6	SRD06-045	I	2.151	64	H	N	N	N	0	0	N
7/06/6-81	7/18/2006	1	2006	6	SRD06-045	I	2.748	70	N	N	N	N	0	0	N
7/06/6-82	7/18/2006	1	2006	6	SRD06-045	F	2.871	73	N	N	N	N	1	1	N
7/06/6-83	7/18/2006	1	2006	6	SRD06-045	F	2.418	71	N	N	OT	N	1	2	N
7/06/6-84	7/18/2006	1	2006	6	SRD06-045	F	1.976	64	N	N	N	L	0	0	N
7/06/6-85	7/18/2006	1	2006	6	SRD06-045	I	2.082	63	N	N	N	N	0	0	N
7/06/6-86	7/18/2006	1	2006	6	SRD06-045	I	2.090	65	N	N	N	N	0	0	N
7/06/6-87	7/18/2006	1	2006	6	SRD06-045	I	2.331	63	N	N	N	N	0	1	N
7/06/6-88	7/18/2006	1	2006	6	SRD06-045	I	2.306	66	N	N	N	N	0	0	N
7/06/6-89	7/18/2006	1	2006	6	SRD06-045	I	1.550	64	N	N	N	L	1	1	F
7/06/6-90	7/18/2006	1	2006	6	SRD06-045	F	1.820	62	N	N	N	N	0	0	N
7/06/6-91	7/18/2006	1	2006	6	SRD06-045	I	2.430	64	N	N	N	P	0	1	CP
7/06/6-92	7/18/2006	1	2006	6	SRD06-045	F	1.490	58	N	N	N	N	0	1	N
7/06/6-93	7/18/2006	1	2006	6	SRD06-045	I	1.616	60	N	N	N	N	1	1	N
7/06/6-94	7/18/2006	1	2006	6	SRD06-045	I	2.008	67	N	N	N	N	1	1	N
7/06/6-95	7/18/2006	1	2006	6	SRD06-045	I	2.045	68	H	N	N	N	1	2	N
7/06/6-96	7/18/2006	1	2006	6	SRD06-045	M	2.211	63	N	N	N	N	1	1	N
10/06/1-70	10/11/2006	1	2006	1	SRD06-060	I	1.493	61	N	N	N	N	2	1	N
10/06/1-71	10/11/2006	1	2006	1	SRD06-060	M	2.105	65	N	N	N	N	0	0	N
10/06/1-72	10/11/2006	1	2006	1	SRD06-060	F	3.540	80	N	N	N	N	0	0	N
10/06/1-73	10/11/2006	1	2006	1	SRD06-060	I	1.671	63	N	N	N	N	0	1	N
10/06/1-74	10/11/2006	1	2006	1	SRD06-060	F	2.722	71	N	N	N	N	1	0	N
10/06/1-75	10/11/2006	1	2006	1	SRD06-060	I	1.268	55	N	N	N	N	0	0	N
10/06/1-76	10/11/2006	1	2006	1	SRD06-060	M	1.669	61	N	N	N	N	0	0	N
10/06/1-77	10/11/2006	1	2006	1	SRD06-060	F	1.880	63	N	N	N	N	0	0	N
10/06/1-78	10/11/2006	1	2006	1	SRD06-060	F	1.327	57	N	N	N	N	0	0	P
10/06/1-79	10/11/2006	1	2006	1	SRD06-060	F	2.357	69	N	N	N	LP	0	0	N
10/06/1-80	10/11/2006	1	2006	1	SRD06-060	M	1.654	62	N	N	N	N	1	1	N
10/06/1-81	10/11/2006	1	2006	1	SRD06-060	F	1.968	65	OT	N	N	N	0	0	M
10/06/1-82	10/11/2006	1	2006	1	SRD06-060	M	1.417	58	N	N	N	N	0	0	N
10/06/1-83	10/11/2006	1	2006	1	SRD06-060	I	1.210	55	N	N	N	N	0	0	CP
10/06/1-84	10/11/2006	1	2006	1	SRD06-060	M	1.328	56	N	N	N	N	0	0	N
10/06/1-85	10/11/2006	1	2006	1	SRD06-060	I	1.028	55	N	N	N	N	0	1	N
10/06/1-86	10/11/2006	1	2006	1	SRD06-060	F	1.971	67	N	N	N	N	1	0	P
10/06/1-87	10/11/2006	1	2006	1	SRD06-060	F	1.158	56	N	N	N	N	0	0	N
10/06/1-88	10/11/2006	1	2006	1	SRD06-060	F	1.377	58	N	N	N	N	0	0	N
10/06/1-89	10/11/2006	1	2006	1	SRD06-060	M	1.323	57	N	N	N	N	0	0	N
10/06/1-90	10/11/2006	1	2006	1	SRD06-060	F	1.937	65	N	N	N	N	0	0	N
10/06/1-91	10/11/2006	1	2006	1	SRD06-060	I	1.356	58	N	N	N	N	0	0	N

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SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
10/06/1-92	10/11/2006	1	2006	1	SRD06-060	I	1.348	57	N	N	N	N	0	0	N
10/06/1-93	10/11/2006	1	2006	1	SRD06-060	F	1.142	53	N	N	N	N	0	0	CP
10/06/1-94	10/11/2006	1	2006	1	SRD06-060	I	1.489	60	N	N	N	N	0	0	N
10/06/1-95	10/11/2006	1	2006	1	SRD06-060	F	1.552	62	N	N	N	N	0	0	N
10/06/1-96	10/11/2006	1	2006	1	SRD06-060	I	0.809	51	N	N	N	N	0	0	N
10/06/2-70	10/12/2006	1	2006	2	SRD06-061	F	2.761	71	N	N	N	N	0	0	N
10/06/2-71	10/12/2006	1	2006	2	SRD06-061	F	3.573	79	N	N	N	N	0	0	N
10/06/2-72	10/12/2006	1	2006	2	SRD06-061	M	3.805	78	N	N	N	N	0	0	N
10/06/2-73	10/12/2006	1	2006	2	SRD06-061	F	1.442	56	N	N	N	N	1	1	C
10/06/2-74	10/12/2006	1	2006	2	SRD06-061	F	4.574	85	N	N	N	N	0	0	N
10/06/2-75	10/12/2006	1	2006	2	SRD06-061	F	3.239	75	N	N	N	N	1	1	P
10/06/2-76	10/12/2006	1	2006	2	SRD06-061	F	1.153	52	N	N	N	N	0	0	N
10/06/2-77	10/12/2006	1	2006	2	SRD06-061	M	3.174	75	N	N	N	L	1	1	P
10/06/2-78	10/12/2006	1	2006	2	SRD06-061	M	3.472	73	N	N	N	N	1	1	N
10/06/2-79	10/12/2006	1	2006	2	SRD06-061	F	4.559	84	N	N	N	N	1	1	C
10/06/2-80	10/12/2006	1	2006	2	SRD06-061	I	4.585	86	N	N	N	N	1	1	N
10/06/2-81	10/12/2006	1	2006	2	SRD06-061	F	1.224	54	N	N	N	N	0	0	N
10/06/2-82	10/12/2006	1	2006	2	SRD06-061	I	1.972	65	N	N	N	N	0	0	P
10/06/2-83	10/12/2006	1	2006	2	SRD06-061	M	4.011	80	N	N	N	N	0	0	CP
10/06/2-84	10/12/2006	1	2006	2	SRD06-061	M	4.008	82	N	N	N	N	1	0	CP
10/06/2-85	10/12/2006	1	2006	2	SRD06-061	F	1.354	55	N	N	N	N	0	0	N
10/06/2-86	10/12/2006	1	2006	2	SRD06-061	I	3.436	76	N	N	N	N	0	0	N
10/06/2-87	10/12/2006	1	2006	2	SRD06-061	I	3.413	77	O	N	N	N	0	0	CP
10/06/2-88	10/12/2006	1	2006	2	SRD06-061	F	3.755	78	M	N	L	N	0	0	N
10/06/2-89	10/12/2006	1	2006	2	SRD06-061	F	4.852	84	N	N	N	N	0	0	N
10/06/2-90	10/12/2006	1	2006	2	SRD06-061	F	3.626	77	N	N	N	N	0	0	N
10/06/2-91	10/12/2006	1	2006	2	SRD06-061	M	1.565	57	N	N	N	N	0	0	N
10/06/2-92	10/12/2006	1	2006	2	SRD06-061	F	3.721	78	N	N	N	N	0	0	N
10/06/2-93	10/12/2006	1	2006	2	SRD06-061	M	1.332	53	N	N	N	N	0	0	N
10/06/2-94	10/12/2006	1	2006	2	SRD06-061	F	3.274	74	N	N	N	N	0	0	N
10/06/2-95	10/12/2006	1	2006	2	SRD06-061	M	2.836	73	N	N	N	L	0	0	N
10/06/2-96	10/12/2006	1	2006	2	SRD06-061	I	1.134	52	N	N	N	N	0	0	N
10/06/2-97	10/12/2006	1	2006	2	SRD06-061	M	1.599	59	N	N	N	N	1	1	C
10/06/2-98	10/12/2006	1	2006	2	SRD06-061	I	0.962	49	N	N	N	N	1	1	N
10/06/2-99	10/12/2006	1	2006	2	SRD06-061	M	1.663	58	N	N	N	N	1	1	C
10/06/3-70	10/17/2006	1	2006	3	WJR06-495	F	5.881	90	N	N	N	N	0	0	N
10/06/3-71	10/17/2006	1	2006	3	WJR06-495	F	2.400	68	N	N	N	N	0	0	N
10/06/3-72	10/17/2006	1	2006	3	WJR06-495	F	2.622	71	N	N	N	L	1	1	N
10/06/3-73	10/17/2006	1	2006	3	WJR06-495	M	4.922	81	N	N	N	N	0	0	N
10/06/3-74	10/17/2006	1	2006	3	WJR06-495	F	1.955	64	N	N	N	N	0	0	N
10/06/3-75	10/17/2006	1	2006	3	WJR06-495	M	7.835	98	N	N	N	N	1	1	P
10/06/3-76	10/17/2006	1	2006	3	WJR06-495	M	4.748	85	N	N	N	N	1	1	N
10/06/3-77	10/17/2006	1	2006	3	WJR06-495	M	4.787	83	N	N	N	N	0	0	N
10/06/3-78	10/17/2006	1	2006	3	WJR06-495	F	5.306	89	N	N	N	N	1	1	N
10/06/3-79	10/17/2006	1	2006	3	WJR06-495	F	2.481	68	N	N	N	N	0	0	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
10/06/3-80	10/17/2006	1	2006	3	WJR06-495	M	4.241	78	N	N	N	N	0	0	N
10/06/3-81	10/17/2006	1	2006	3	WJR06-495	M	2.971	70	N	N	N	L	1	1	N
10/06/3-82	10/17/2006	1	2006	3	WJR06-495	M	4.669	89	N	N	TL	L	0	0	P
10/06/3-83	10/17/2006	1	2006	3	WJR06-495	F	3.433	76	N	N	N	N	1	1	N
10/06/3-84	10/17/2006	1	2006	3	WJR06-495	M	4.750	82	N	N	N	N	0	0	N
10/06/3-85	10/17/2006	1	2006	3	WJR06-495	M	4.789	83	N	N	N	N	0	0	N
10/06/3-86	10/17/2006	1	2006	3	WJR06-495	M	5.035	83	N	N	N	N	1	1	N
10/06/3-87	10/17/2006	1	2006	3	WJR06-495	F	6.385	92	N	N	N	L	0	0	N
10/06/4-70	10/16/2006	1	2006	4	WJR06-494	M	4.488	81	N	N	N	N	1	1	N
10/06/4-71	10/16/2006	1	2006	4	WJR06-494	M	5.052	83	N	N	N	N	1	0	N
10/06/4-72	10/16/2006	1	2006	4	WJR06-494	M	4.501	79	N	N	N	L	1	1	M
10/06/4-73	10/16/2006	1	2006	4	WJR06-494	M	3.499	76	N	N	N	N	2	2	N
10/06/4-74	10/16/2006	1	2006	4	WJR06-494	F	4.539	82	N	N	N	N	0	0	N
10/06/4-75	10/16/2006	1	2006	4	WJR06-494	F	4.229	79	N	N	OT	N	1	1	N
10/06/4-76	10/16/2006	1	2006	4	WJR06-494	M	4.159	79	N	N	N	N	0	0	P
10/06/4-77	10/16/2006	1	2006	4	WJR06-494	F	4.652	82	N	N	N	N	0	0	N
10/06/4-78	10/16/2006	1	2006	4	WJR06-494	M	4.621	80	N	N	N	N	1	1	CP
10/06/4-79	10/16/2006	1	2006	4	WJR06-494	M	4.171	77	N	N	N	N	0	0	N
10/06/4-80	10/16/2006	1	2006	4	WJR06-494	M	3.775	74	N	N	N	N	0	0	N
10/06/4-81	10/16/2006	1	2006	4	WJR06-494	F	1.519	54	N	N	N	N	0	0	N
10/06/4-82	10/16/2006	1	2006	4	WJR06-494	F	3.475	74	N	N	N	N	0	0	N
10/06/4-83	10/16/2006	1	2006	4	WJR06-494	F	4.872	85	N	N	N	N	0	0	P
10/06/4-84	10/16/2006	1	2006	4	WJR06-494	F	4.754	83	N	N	N	N	0	0	P
10/06/4-85	10/16/2006	1	2006	4	WJR06-494	F	3.876	78	N	N	N	N	1	1	P
10/06/4-86	10/16/2006	1	2006	4	WJR06-494	M	2.321	66	N	N	N	L	1	1	N
10/06/4-87	10/16/2006	1	2006	4	WJR06-494	M	4.455	82	N	N	N	N	0	0	N
10/06/4-88	10/16/2006	1	2006	4	WJR06-494	M	2.295	67	N	N	N	N	0	0	P
10/06/4-89	10/16/2006	1	2006	4	WJR06-494	F	4.466	82	N	N	N	N	0	0	P
10/06/4-90	10/16/2006	1	2006	4	WJR06-494	F	4.081	80	N	N	N	N	1	1	N
10/06/4-91	10/16/2006	1	2006	4	WJR06-494	F	4.670	82	N	N	N	N	0	0	N
10/06/4-92	10/16/2006	1	2006	4	WJR06-494	F	5.361	83	N	N	N	N	0	0	N
10/06/4-93	10/16/2006	1	2006	4	WJR06-494	F	4.860	84	N	N	N	N	0	0	N
10/06/4-94	10/16/2006	1	2006	4	WJR06-494	F	4.746	81	N	N	N	N	1	1	N
10/06/4-95	10/16/2006	1	2006	4	WJR06-494	F	4.610	82	N	N	N	N	0	0	N
10/06/4-96	10/16/2006	1	2006	4	WJR06-494	M	5.585	85	N	N	N	P	0	0	N
10/06/4-97	10/16/2006	1	2006	4	WJR06-494	M	4.946	82	N	N	N	N	0	0	N
10/06/4-98	10/16/2006	1	2006	4	WJR06-494	F	3.752	76	N	N	N	N	0	0	N
10/06/4-99	10/16/2006	1	2006	4	WJR06-494	M	4.013	78	N	N	N	N	0	0	N
10/06/5-70	10/18/2006	1	2006	5	WJR06-496	I	4.538	79	N	N	N	N	0	0	N
10/06/5-71	10/18/2006	1	2006	5	WJR06-496	F	6.499	90	N	N	N	N	0	0	CP
10/06/5-72	10/18/2006	1	2006	5	WJR06-496	M	4.713	80	N	N	N	L	0	0	N
10/06/5-73	10/18/2006	1	2006	5	WJR06-496	F	7.121	94	N	N	N	N	0	0	P
10/06/5-74	10/18/2006	1	2006	5	WJR06-496	F	5.661	88	N	N	N	N	0	0	N
10/06/5-75	10/18/2006	1	2006	5	WJR06-496	F	5.845	86	N	N	N	N	1	1	N
10/06/5-76	10/18/2006	1	2006	5	WJR06-496	F	5.586	87	N	N	N	N	1	1	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
10/06/5-77	10/18/2006	1	2006	5	WJR06-496	F	3.114	72	N	N	N	L	1	1	N
10/06/5-78	10/18/2006	1	2006	5	WJR06-496	F	1.920	63	N	N	N	N	0	0	N
10/06/5-79	10/18/2006	1	2006	5	WJR06-496	F	5.755	89	N	N	N	N	0	0	N
10/06/5-80	10/18/2006	1	2006	5	WJR06-496	M	4.865	82	N	N	N	N	1	1	N
10/06/5-81	10/18/2006	1	2006	5	WJR06-496	F	4.159	77	N	N	N	N	0	0	N
10/06/5-82	10/18/2006	1	2006	5	WJR06-496	F	2.500	66	N	N	N	N	0	0	N
10/06/5-83	10/18/2006	1	2006	5	WJR06-496	F	2.000	64	N	N	N	N	0	0	N
10/06/5-84	10/18/2006	1	2006	5	WJR06-496	F	1.994	64	N	N	N	N	0	0	N
10/06/5-85	10/18/2006	1	2006	5	WJR06-496	F	6.892	93	N	N	N	N	0	0	N
10/06/5-86	10/18/2006	1	2006	5	WJR06-496	M	4.789	85	N	N	N	N	0	0	N
10/06/5-87	10/18/2006	1	2006	5	WJR06-496	F	5.654	84	N	N	N	N	1	1	N
10/06/5-88	10/18/2006	1	2006	5	WJR06-496	F	6.275	91	N	N	N	N	1	1	C
10/06/5-89	10/18/2006	1	2006	5	WJR06-496	F	4.738	85	N	N	N	N	0	0	N
10/06/5-90	10/18/2006	1	2006	5	WJR06-496	F	3.114	70	N	N	N	N	0	0	N
10/06/5-91	10/18/2006	1	2006	5	WJR06-496	I	2.015	65	N	N	N	N	0	0	N
10/06/5-92	10/18/2006	1	2006	5	WJR06-496	F	1.784	60	N	N	N	N	1	1	N
10/06/5-93	10/18/2006	1	2006	5	WJR06-496	F	1.521	57	N	N	N	N	0	0	N
10/06/5-94	10/18/2006	1	2006	5	WJR06-496	F	1.604	58	N	N	N	N	1	1	N
10/06/5-95	10/18/2006	1	2006	5	WJR06-496	F	3.430	75	N	N	N	N	1	1	P
10/06/5-96	10/18/2006	1	2006	5	WJR06-496	F	1.693	59	N	N	N	N	1	1	N
1/07/2-70	1/24/2007	1	2007	2	WJR07-542	M	2.899	73	N	N	N	N	0	0	C
1/07/2-71	1/24/2007	1	2007	2	WJR07-542	F	4.333	85	N	N	OT	N	0	0	N
1/07/2-72	1/24/2007	1	2007	2	WJR07-542	F	3.231	74	N	N	N	N	1	1	C
1/07/2-73	1/24/2007	1	2007	2	WJR07-542	F	2.225	69	N	N	N	N	1	1	N
1/07/2-74	1/24/2007	1	2007	2	WJR07-542	M	1.009	52	N	N	N	N	0	0	C
1/07/2-75	1/24/2007	1	2007	2	WJR07-542	M	2.689	73	N	N	N	N	0	0	N
1/07/2-76	1/24/2007	1	2007	2	WJR07-542	F	2.677	73	N	N	N	N	0	0	N
1/07/2-77	1/24/2007	1	2007	2	WJR07-542	M	2.445	69	N	N	N	N	1	1	CP
1/07/2-78	1/24/2007	1	2007	2	WJR07-542	M	2.917	78	N	N	N	N	0	0	N
1/07/2-79	1/24/2007	1	2007	2	WJR07-542	F	2.423	70	N	N	N	N	0	0	C
1/07/2-80	1/24/2007	1	2007	2	WJR07-542	F	0.862	51	N	N	N	N	0	0	C
1/07/2-81	1/24/2007	1	2007	2	WJR07-542	F	1.915	67	N	N	N	N	0	0	C
1/07/2-82	1/24/2007	1	2007	2	WJR07-542	F	2.220	70	N	N	N	N	0	0	N
1/07/2-83	1/24/2007	1	2007	2	WJR07-542	M	2.634	74	N	N	N	N	0	0	C
1/07/2-84	1/24/2007	1	2007	2	WJR07-542	F	1.135	55	N	N	N	N	0	0	CP
1/07/2-85	1/24/2007	1	2007	2	WJR07-542	M	1.264	60	N	N	N	N	0	0	CP
1/07/2-86	1/24/2007	1	2007	2	WJR07-542	F	1.219	56	N	N	N	N	0	0	N
1/07/3-70	1/23/2007	1	2007	3	WJR07-541	F	2.823	75	N	N	N	N	2	2	N
1/07/3-71	1/23/2007	1	2007	3	WJR07-541	F	6.146	92	N	N	N	N	1	1	N
1/07/3-72	1/23/2007	1	2007	3	WJR07-541	M	4.307	81	N	N	N	N	0	0	N
1/07/3-73	1/23/2007	1	2007	3	WJR07-541	F	1.564	60	N	N	N	N	1	1	N
1/07/3-74	1/23/2007	1	2007	3	WJR07-541	M	3.132	74	N	N	N	N	0	0	P
1/07/3-75	1/23/2007	1	2007	3	WJR07-541	F	3.947	80	N	N	N	N	1	1	C
1/07/3-76	1/23/2007	1	2007	3	WJR07-541	F	5.199	88	N	M	N	N	0	0	C
1/07/3-77	1/23/2007	1	2007	3	WJR07-541	F	5.072	86	N	N	N	N	1	1	C

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
1/07/3-78	1/23/2007	1	2007	3	WJR07-541	F	1.927	63	N	N	N	N	1	1	C
1/07/3-79	1/23/2007	1	2007	3	WJR07-541	M	3.429	77	N	N	N	N	0	0	N
1/07/3-80	1/23/2007	1	2007	3	WJR07-541	F	2.994	75	N	N	N	N	1	1	N
1/07/3-81	1/23/2007	1	2007	3	WJR07-541	M	5.455	89	N	N	N	N	1	1	C
1/07/3-82	1/23/2007	1	2007	3	WJR07-541	M	3.382	76	N	N	N	N	1	1	P
1/07/3-83	1/23/2007	1	2007	3	WJR07-541	M	6.535	92	N	N	N	N	0	0	N
1/07/3-84	1/23/2007	1	2007	3	WJR07-541	M	3.386	76	N	N	N	N	0	0	N
1/07/3-85	1/23/2007	1	2007	3	WJR07-541	F	3.223	76	N	N	N	N	1	1	C
1/07/3-86	1/23/2007	1	2007	3	WJR07-541	M	3.489	75	N	N	N	N	0	0	P
1/07/3-87	1/23/2007	1	2007	3	WJR07-541	M	1.551	63	N	N	N	N	0	1	C
1/07/3-88	1/23/2007	1	2007	3	WJR07-541	M	1.385	57	N	N	N	N	0	0	N
1/07/3-89	1/23/2007	1	2007	3	WJR07-541	F	4.736	85	N	N	N	N	2	1	C
1/07/3-90	1/23/2007	1	2007	3	WJR07-541	M	3.249	79	N	N	N	N	0	0	N
1/07/3-91	1/23/2007	1	2007	3	WJR07-541	F	2.996	75	N	N	N	N	1	1	C
1/07/3-92	1/23/2007	1	2007	3	WJR07-541	M	1.012	53	N	N	N	N	0	0	CP
1/07/3-93	1/23/2007	1	2007	3	WJR07-541	M	5.250	90	N	N	N	N	0	0	N
1/07/3-94	1/23/2007	1	2007	3	WJR07-541	F	1.367	59	N	N	N	N	0	0	N
1/07/3-95	1/23/2007	1	2007	3	WJR07-541	F	3.994	81	N	N	N	N	1	1	C
1/07/3-96	1/23/2007	1	2007	3	WJR07-541	I	2.824	72	N	N	N	N	0	1	N
1/07/3-97	1/23/2007	1	2007	3	WJR07-541	M	4.173	81	N	N	N	T	0	0	C
1/07/3-98	1/23/2007	1	2007	3	WJR07-541	F	1.536	59	N	N	N	N	0	0	C
1/07/3-99	1/23/2007	1	2007	3	WJR07-541	F	1.705	62	N	N	N	N	0	0	N
1/07/4-70	2/1/2007	1	2007	4	WJR07-550	M	4.540	80	N	N	N	P	0	0	C
1/07/4-71	2/1/2007	1	2007	4	WJR07-550	F	4.841	84	N	N	N	N	1	1	N
1/07/4-72	2/1/2007	1	2007	4	WJR07-550	M	3.787	78	N	N	N	N	1	1	N
1/07/4-73	2/1/2007	1	2007	4	WJR07-550	M	3.749	80	N	N	N	N	0	0	C
1/07/4-74	2/1/2007	1	2007	4	WJR07-550	F	5.744	90	N	N	N	N	0	0	N
1/07/4-75	2/1/2007	1	2007	4	WJR07-550	M	2.188	64	N	N	N	N	0	0	C
1/07/4-76	2/1/2007	1	2007	4	WJR07-550	M	3.362	76	N	N	N	N	0	0	N
1/07/4-77	2/1/2007	1	2007	4	WJR07-550	F	4.859	82	N	N	N	N	1	1	N
1/07/4-78	2/1/2007	1	2007	4	WJR07-550	M	5.049	86	N	N	N	N	1	1	C
1/07/4-79	2/1/2007	1	2007	4	WJR07-550	M	4.315	80	N	N	N	N	1	1	CP
1/07/4-80	2/1/2007	1	2007	4	WJR07-550	F	3.064	75	N	N	N	N	1	1	C
1/07/4-81	2/1/2007	1	2007	4	WJR07-550	M	3.764	81	N	N	N	N	0	0	N
1/07/4-82	2/1/2007	1	2007	4	WJR07-550	F	6.195	88	N	N	N	N	0	0	C
1/07/4-83	2/1/2007	1	2007	4	WJR07-550	F	4.820	83	N	N	N	N	0	0	N
1/07/4-84	2/1/2007	1	2007	4	WJR07-550	F	6.172	89	N	N	N	N	0	0	C
1/07/4-85	2/1/2007	1	2007	4	WJR07-550	M	5.078	87	N	N	N	N	0	0	N
1/07/4-86	2/1/2007	1	2007	4	WJR07-550	M	3.953	78	N	N	N	N	0	0	N
1/07/4-87	2/1/2007	1	2007	4	WJR07-550	F	4.085	82	N	N	N	N	0	0	CP
1/07/4-88	2/1/2007	1	2007	4	WJR07-550	M	3.834	79	N	N	N	N	0	0	C
1/07/4-89	2/1/2007	1	2007	4	WJR07-550	M	3.907	80	N	N	N	L	0	0	N
1/07/4-90	2/1/2007	1	2007	4	WJR07-550	M	1.802	62	N	N	N	N	1	1	CP
1/07/4-91	2/1/2007	1	2007	4	WJR07-550	M	4.514	83	N	N	N	N	1	1	C
1/07/4-92	2/1/2007	1	2007	4	WJR07-550	F	4.100	79	N	N	N	N	0	0	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
1/07/4-93	2/1/2007	1	2007	4	WJR07-550	F	5.450	87	N	N	N	N	2	1	N
1/07/4-94	2/1/2007	1	2007	4	WJR07-550	F	4.479	80	N	N	N	N	0	0	C
1/07/4-95	2/1/2007	1	2007	4	WJR07-550	F	1.942	62	N	N	N	N	1	1	C
1/07/4-96	2/1/2007	1	2007	4	WJR07-550	M	3.998	78	N	N	N	N	0	0	N
1/07/4-97	2/1/2007	1	2007	4	WJR07-550	F	5.346	85	N	N	N	N	0	0	N
1/07/4-98	2/1/2007	1	2007	4	WJR07-550	F	5.183	85	N	N	N	N	0	0	C
1/07/4-99	2/1/2007	1	2007	4	WJR07-550	F	4.308	76	N	N	N	N	0	0	N
1/07/5-70	1/31/2007	1	2007	5	WJR07-549	M	2.029	64	N	N	N	N	0	0	C
1/07/5-71	1/31/2007	1	2007	5	WJR07-549	F	1.993	63	N	N	N	N	0	0	C
1/07/5-72	1/31/2007	1	2007	5	WJR07-549	F	2.625	70	N	N	N	N	1	1	N
1/07/5-73	1/31/2007	1	2007	5	WJR07-549	I	0.823	46	N	N	N	N	1	1	C
1/07/5-74	1/31/2007	1	2007	5	WJR07-549	F	0.750	46	N	N	N	N	1	1	CP
1/07/5-75	1/31/2007	1	2007	5	WJR07-549	I	1.379	56	N	N	N	N	1	1	C
1/07/5-76	1/31/2007	1	2007	5	WJR07-549	F	0.961	49	N	N	N	N	1	1	CP
1/07/5-77	1/31/2007	1	2007	5	WJR07-549	M	1.989	63	N	N	N	N	0	0	C
1/07/5-78	1/31/2007	1	2007	5	WJR07-549	I	0.589	43	N	N	N	N	1	1	CP
1/07/5-79	1/31/2007	1	2007	5	WJR07-549	F	0.942	48	N	N	N	N	0	0	N
1/07/5-80	1/31/2007	1	2007	5	WJR07-549	F	0.749	45	N	N	N	N	1	1	C
1/07/5-81	1/31/2007	1	2007	5	WJR07-549	M	0.867	45	N	N	N	N	0	0	C
1/07/5-82	1/31/2007	1	2007	5	WJR07-549	F	1.352	54	N	N	N	N	1	1	CP
1/07/5-83	1/31/2007	1	2007	5	WJR07-549	F	0.878	47	N	N	N	N	1	1	CP
1/07/5-84	1/31/2007	1	2007	5	WJR07-549	I	0.875	48	N	N	N	N	0	0	N
1/07/5-85	1/31/2007	1	2007	5	WJR07-549	M	1.692	60	N	N	N	N	1	1	C
1/07/5-86	1/31/2007	1	2007	5	WJR07-549	F	0.949	46	N	N	N	N	0	0	CP
1/07/5-87	1/31/2007	1	2007	5	WJR07-549	M	1.049	50	N	N	N	N	1	1	FCP
1/07/5-88	1/31/2007	1	2007	5	WJR07-549	I	1.028	50	N	N	N	N	1	1	CP
1/07/5-89	1/31/2007	1	2007	5	WJR07-549	I	0.821	46	N	N	N	N	1	1	CP
1/07/5-90	1/31/2007	1	2007	5	WJR07-549	F	0.790	45	N	N	N	N	0	0	CP
1/07/5-91	1/31/2007	1	2007	5	WJR07-549	I	0.842	47	N	N	N	N	1	1	CP
1/07/5-92	1/31/2007	1	2007	5	WJR07-549	F	0.784	42	N	N	N	N	0	0	C
1/07/5-93	1/31/2007	1	2007	5	WJR07-549	F	2.093	64	N	N	N	N	0	0	C
1/07/5-94	1/31/2007	1	2007	5	WJR07-549	F	2.129	64	N	N	N	N	1	1	C
1/07/5-95	1/31/2007	1	2007	5	WJR07-549	F	7.981	98	N	N	N	P	0	0	N
1/07/6-70	1/30/2007	1	2007	6	WJR07-548	F	5.732	88	N	N	N	L	0	0	N
1/07/6-71	1/30/2007	1	2007	6	WJR07-548	F	2.361	65	N	N	N	L	0	0	P
1/07/6-72	1/30/2007	1	2007	6	WJR07-548	M	3.289	72	N	N	N	L	0	0	C
1/07/6-73	1/30/2007	1	2007	6	WJR07-548	M	3.385	74	N	N	N	N	1	1	C
1/07/6-74	1/30/2007	1	2007	6	WJR07-548	M	2.908	71	N	N	N	N	1	1	N
1/07/6-75	1/30/2007	1	2007	6	WJR07-548	M	4.018	75	N	N	N	N	0	0	N
1/07/6-76	1/30/2007	1	2007	6	WJR07-548	M	4.700	82	N	N	N	N	1	1	N
1/07/6-77	1/30/2007	1	2007	6	WJR07-548	M	6.318	89	N	N	N	P	0	0	N
1/07/6-78	1/30/2007	1	2007	6	WJR07-548	M	3.818	76	N	N	N	L	1	1	N
1/07/6-79	1/30/2007	1	2007	6	WJR07-548	F	5.307	84	N	N	N	N	0	0	C
1/07/6-80	1/30/2007	1	2007	6	WJR07-548	F	4.837	83	N	N	N	N	0	0	CP
1/07/6-81	1/30/2007	1	2007	6	WJR07-548	M	3.843	76	N	N	N	N	0	0	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
1/07/6-82	1/30/2007	1	2007	6	WJR07-548	M	4.251	84	N	N	N	N	1	1	N
1/07/6-83	1/30/2007	1	2007	6	WJR07-548	M	2.468	65	N	N	N	N	0	0	P
1/07/6-84	1/30/2007	1	2007	6	WJR07-548	F	5.363	85	N	N	LP	N	0	0	N
1/07/6-85	1/30/2007	1	2007	6	WJR07-548	F	3.256	75	N	N	N	N	0	0	N
1/07/6-86	1/30/2007	1	2007	6	WJR07-548	F	4.658	82	N	N	N	N	0	0	N
1/07/6-87	1/30/2007	1	2007	6	WJR07-548	M	5.362	86	N	N	N	N	0	0	C
1/07/6-88	1/30/2007	1	2007	6	WJR07-548	F	4.999	84	N	N	N	N	0	0	N
1/07/6-89	1/30/2007	1	2007	6	WJR07-548	M	3.304	73	N	N	N	N	0	0	N
1/07/6-90	1/30/2007	1	2007	6	WJR07-548	F	4.309	85	N	N	N	N	0	0	N
1/07/6-91	1/30/2007	1	2007	6	WJR07-548	F	5.283	85	N	N	N	N	0	0	N
1/07/6-92	1/30/2007	1	2007	6	WJR07-548	M	4.345	80	N	N	N	N	1	1	CP
1/07/6-93	1/30/2007	1	2007	6	WJR07-548	F	4.764	81	N	N	N	N	0	0	N
1/07/6-94	1/30/2007	1	2007	6	WJR07-548	F	3.917	79	N	N	N	N	0	0	FP
1/07/6-95	1/30/2007	1	2007	6	WJR07-548	F	4.946	84	N	N	N	N	0	0	C
1/07/6-96	1/30/2007	1	2007	6	WJR07-548	F	5.614	86	N	N	N	L	1	1	P
1/07/6-97	1/30/2007	1	2007	6	WJR07-548	F	4.142	79	N	N	N	T	1	1	N
1/07/6-98	1/30/2007	1	2007	6	WJR07-548	F	3.426	75	N	N	N	N	0	0	CP
1/07/6-99	1/30/2007	1	2007	6	WJR07-548	M	3.763	77	N	N	N	N	0	0	P
4/07/1-70	4/26/2007	1	2007	1	WJR07-577	F	5.779	82	N	N	N	N	1	1	N
4/07/1-71	4/26/2007	1	2007	1	WJR07-577	M	3.673	75	N	N	N	N	0	0	N
4/07/1-72	4/26/2007	1	2007	1	WJR07-577	M	1.443	55	N	N	N	N	0	0	C
4/07/1-73	4/26/2007	1	2007	1	WJR07-577	M	4.661	81	N	N	N	N	1	0	N
4/07/1-74	4/26/2007	1	2007	1	WJR07-577	M	4.149	76	N	N	N	N	0	0	N
4/07/1-75	4/26/2007	1	2007	1	WJR07-577	F	3.599	74	N	N	N	N	1	1	C
4/07/1-76	4/26/2007	1	2007	1	WJR07-577	M	4.706	81	N	N	N	N	1	1	CM
4/07/1-77	4/26/2007	1	2007	1	WJR07-577	M	4.638	82	N	N	N	N	1	1	C
4/07/1-78	4/26/2007	1	2007	1	WJR07-577	M	6.168	85	N	N	N	N	1	1	C
4/07/1-79	4/26/2007	1	2007	1	WJR07-577	F	1.007	46	N	N	N	N	0	0	N
4/07/1-80	4/26/2007	1	2007	1	WJR07-577	M	4.941	82	N	N	N	N	0	0	N
4/07/1-81	4/26/2007	1	2007	1	WJR07-577	M	4.000	78	N	N	N	N	0	0	N
4/07/1-82	4/26/2007	1	2007	1	WJR07-577	M	3.739	75	N	N	N	N	0	0	C
4/07/1-83	4/26/2007	1	2007	1	WJR07-577	M	5.388	84	N	N	N	N	1	0	CP
4/07/1-84	4/26/2007	1	2007	1	WJR07-577	M	4.918	83	N	N	N	N	1	1	C
4/07/2-70	4/25/2007	1	2007	2	WJR07-576	M	3.661	75	N	N	N	N	1	1	CP
4/07/2-71	4/25/2007	1	2007	2	WJR07-576	F	0.807	45	N	N	N	N	1	1	C
4/07/2-72	4/25/2007	1	2007	2	WJR07-576	M	1.597	57	N	N	N	N	0	1	C
4/07/2-73	4/25/2007	1	2007	2	WJR07-576	F	1.707	58	N	N	N	N	1	1	C
4/07/2-74	4/25/2007	1	2007	2	WJR07-576	F	1.569	55	N	N	N	N	0	2	N
4/07/2-75	4/25/2007	1	2007	2	WJR07-576	F	1.373	52	N	N	N	N	0	0	N
4/07/2-76	4/25/2007	1	2007	2	WJR07-576	M	1.422	57	N	N	N	N	0	0	N
4/07/2-77	4/25/2007	1	2007	2	WJR07-576	M	1.037	51	N	N	N	N	0	0	N
4/07/2-78	4/25/2007	1	2007	2	WJR07-576	M	1.171	51	N	N	N	N	1	0	N
4/07/2-79	4/25/2007	1	2007	2	WJR07-576	F	1.229	53	N	N	N	N	1	0	N
4/07/2-80	4/25/2007	1	2007	2	WJR07-576	M	1.111	`	N	N	N	N	0	0	N
4/07/2-81	4/25/2007	1	2007	2	WJR07-576	F	1.978	55	N	N	N	N	0	0	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
4/07/2-82	4/25/2007	1	2007	2	WJR07-576	F	2.157	58	N	N	N	N	1	1	N
4/07/2-83	4/25/2007	1	2007	2	WJR07-576	F	1.495	56	N	N	N	N	1	1	N
4/07/2-84	4/25/2007	1	2007	2	WJR07-576	F	1.904	60	N	N	N	N	0	0	N
4/07/2-85	4/25/2007	1	2007	2	WJR07-576	F	1.196	50	N	N	N	N	1	1	C
4/07/2-86	4/25/2007	1	2007	2	WJR07-576	F	1.763	58	N	N	N	N	0	0	N
4/07/2-87	4/25/2007	1	2007	2	WJR07-576	F	2.465	62	N	N	N	N	0	0	N
4/07/2-88	4/25/2007	1	2007	2	WJR07-576	F	1.509	56	N	N	N	N	1	1	P
4/07/2-89	4/25/2007	1	2007	2	WJR07-576	F	1.391	51	N	N	N	N	0	1	C
4/07/2-90	4/25/2007	1	2007	2	WJR07-576	F	2.058	60	N	N	N	N	1	1	C
4/07/2-91	4/25/2007	1	2007	2	WJR07-576	M	0.730	49	N	N	N	N	0	0	N
4/07/2-92	4/25/2007	1	2007	2	WJR07-576	F	5.943	83	H	N	N	N	0	0	C
4/07/2-93	4/25/2007	1	2007	2	WJR07-576	F	4.758	80	N	N	N	N	0	1	N
4/07/2-94	4/25/2007	1	2007	2	WJR07-576	F	1.085	49	N	N	N	N	0	0	N
4/07/2-95	4/25/2007	1	2007	2	WJR07-576	M	1.935	60	N	N	N	N	1	0	N
4/07/2-96	4/25/2007	1	2007	2	WJR07-576	F	2.224	64	N	N	N	N	0	0	N
4/07/2-97	4/25/2007	1	2007	2	WJR07-576	F	1.205	50	N	N	N	N	0	0	N
4/07/2-98	4/25/2007	1	2007	2	WJR07-576	F	4.981	83	N	N	N	N	0	1	N
4/07/2-99	4/25/2007	1	2007	2	WJR07-576	M	1.423	58	N	N	N	N	1	1	CP
4/07/3-70	4/24/2007	1	2007	3	WJR07-575	M	2.161	64	N	N	N	N	1	1	C
4/07/3-71	4/24/2007	1	2007	3	WJR07-575	M	2.017	63	N	N	N	N	1	1	CP
4/07/3-72	4/24/2007	1	2007	3	WJR07-575	F	1.161	47	N	N	N	N	1	1	CP
4/07/3-73	4/24/2007	1	2007	3	WJR07-575	F	3.112	65	N	N	N	N	1	0	C
4/07/3-74	4/24/2007	1	2007	3	WJR07-575	F	2.887	66	N	N	N	N	0	0	C
4/07/3-75	4/24/2007	1	2007	3	WJR07-575	F	2.061	59	N	N	N	L	1	1	CP
4/07/3-76	4/24/2007	1	2007	3	WJR07-575	F	3.372	67	N	N	N	N	0	1	C
4/07/3-77	4/24/2007	1	2007	3	WJR07-575	F	2.692	62	N	N	N	N	1	1	CP
4/07/3-78	4/24/2007	1	2007	3	WJR07-575	M	1.699	59	N	N	N	N	2	1	C
4/07/3-79	4/24/2007	1	2007	3	WJR07-575	F	1.941	56	N	N	N	N	1	1	CP
4/07/3-80	4/24/2007	1	2007	3	WJR07-575	M	3.116	72	N	N	N	N	0	0	CP
4/07/3-81	4/24/2007	1	2007	3	WJR07-575	F	3.160	63	N	N	N	N	0	0	C
4/07/3-82	4/24/2007	1	2007	3	WJR07-575	F	1.729	55	N	N	N	N	0	0	N
4/07/3-83	4/24/2007	1	2007	3	WJR07-575	F	2.579	61	N	N	N	N	0	0	C
4/07/3-84	4/24/2007	1	2007	3	WJR07-575	F	2.393	61	N	N	N	N	0	0	C
4/07/3-85	4/24/2007	1	2007	3	WJR07-575	F	1.457	52	N	N	N	N	1	0	CP
4/07/3-86	4/24/2007	1	2007	3	WJR07-575	M	1.477	56	N	N	N	N	1	1	C
4/07/3-87	4/24/2007	1	2007	3	WJR07-575	M	1.153	51	N	N	N	N	2	1	CP
4/07/3-88	4/24/2007	1	2007	3	WJR07-575	M	1.312	53	N	N	N	N	1	2	C
4/07/4-70	4/19/2007	1	2007	4	WJR07-574	F	7.568	91	N	N	N	N	1	1	N
4/07/4-71	4/19/2007	1	2007	4	WJR07-574	F	5.917	78	N	N	N	N	0	0	N
4/07/4-72	4/19/2007	1	2007	4	WJR07-574	M	5.146	81	N	N	N	N	1	0	N
4/07/4-73	4/19/2007	1	2007	4	WJR07-574	F	4.016	73	N	N	N	N	1	1	CP
4/07/4-74	4/19/2007	1	2007	4	WJR07-574	M	2.826	68	N	N	N	N	1	1	N
4/07/4-75	4/19/2007	1	2007	4	WJR07-574	F	7.413	91	N	N	N	N	0	1	C
4/07/4-76	4/19/2007	1	2007	4	WJR07-574	F	7.820	84	N	N	N	N	0	0	C
4/07/4-77	4/19/2007	1	2007	4	WJR07-574	M	2.812	69	N	N	N	N	1	1	C

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SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
4/07/4-78	4/19/2007	1	2007	4	WJR07-574	F	6.996	85	N	N	N	N	0	1	N
4/07/4-79	4/19/2007	1	2007	4	WJR07-574	F	3.902	72	N	N	N	N	1	1	C
4/07/4-80	4/19/2007	1	2007	4	WJR07-574	M	4.195	78	N	N	L	N	0	0	C
4/07/4-81	4/19/2007	1	2007	4	WJR07-574	F	6.939	91	N	N	N	P	1	1	C
4/07/4-82	4/19/2007	1	2007	4	WJR07-574	M	3.760	77	N	N	N	L	1	1	C
4/07/4-83	4/19/2007	1	2007	4	WJR07-574	M	4.975	76	N	N	N	N	1	1	N
4/07/5-70	4/18/2007	1	2007	5	WJR07-573	M	1.561	55	N	N	N	N	1	1	CP
4/07/5-71	4/18/2007	1	2007	5	WJR07-573	I	1.185	51	N	N	N	N	1	1	CP
4/07/5-72	4/18/2007	1	2007	5	WJR07-573	F	1.660	56	N	N	N	N	1	1	P
4/07/5-73	4/18/2007	1	2007	5	WJR07-573	F	0.920	45	N	N	N	N	1	1	CP
4/07/5-74	4/18/2007	1	2007	5	WJR07-573	F	1.501	54	N	N	N	N	1	1	CM
4/07/5-75	4/18/2007	1	2007	5	WJR07-573	M	2.441	83	N	N	N	N	1	1	N
4/07/5-76	4/18/2007	1	2007	5	WJR07-573	M	1.534	55	N	N	N	N	1	1	C
4/07/5-77	4/18/2007	1	2007	5	WJR07-573	F	5.337	79	N	N	N	N	0	0	CP
4/07/5-78	4/18/2007	1	2007	5	WJR07-573	M	1.259	51	N	N	N	N	1	2	CP
4/07/5-79	4/18/2007	1	2007	5	WJR07-573	M	2.056	62	N	N	N	N	0	1	C
4/07/5-80	4/18/2007	1	2007	5	WJR07-573	M	1.632	56	N	N	N	N	2	1	CP
4/07/5-81	4/18/2007	1	2007	5	WJR07-573	F	1.798	58	N	N	N	N	1	1	P
4/07/5-82	4/18/2007	1	2007	5	WJR07-573	M	1.745	57	N	N	N	N	1	0	P
4/07/5-83	4/18/2007	1	2007	5	WJR07-573	M	1.816	58	N	N	N	N	1	1	P
4/07/5-84	4/18/2007	1	2007	5	WJR07-573	F	6.890	90	N	N	N	N	0	1	OT
10/07/1-70	10/31/2007	2	2007	1	WJR07-890	F	1.458	58	N	N	N	N	1	0	C
10/07/1-71	10/31/2007	2	2007	1	WJR07-890	F	1.713	60	N	N	N	N	1	1	C
10/07/1-72	10/31/2007	2	2007	1	WJR07-890	I	0.984	51	N	N	N	N	1	1	C
10/07/1-73	10/31/2007	2	2007	1	WJR07-890	F	1.988	62	N	N	N	N	0	0	N
10/07/1-74	10/31/2007	2	2007	1	WJR07-890	M	1.051	51	N	N	N	N	1	1	N
10/07/1-75	10/31/2007	2	2007	1	WJR07-890	I	1.329	55	N	N	N	N	1	1	N
10/07/1-76	10/31/2007	2	2007	1	WJR07-890	I	1.412	55	N	N	N	N	1	1	C
10/07/1-77	10/31/2007	2	2007	1	WJR07-890	I	1.285	55	N	N	N	N	1	1	C
10/07/1-78	10/31/2007	2	2007	1	WJR07-890	F	1.239	54	N	N	N	N	1	1	N
10/07/1-79	10/31/2007	2	2007	1	WJR07-890	F	0.837	49	N	N	N	N	0	0	N
10/07/1-80	10/31/2007	2	2007	1	WJR07-890	F	1.276	54	N	N	N	N	1	0	N
10/07/1-81	10/31/2007	2	2007	1	WJR07-890	F	1.148	52	N	N	N	N	0	0	N
10/07/1-82	10/31/2007	2	2007	1	WJR07-890	F	0.989	49	N	N	N	N	1	1	N
10/07/1-83	10/31/2007	2	2007	1	WJR07-890	F	0.937	49	N	N	N	N	1	1	CP
10/07/1-84	10/31/2007	2	2007	1	WJR07-890	I	1.249	53	N	N	N	N	1	2	C
10/07/1-85	10/31/2007	2	2007	1	WJR07-890	F	0.734	45	N	N	N	N	0	0	C
10/07/1-86	10/31/2007	2	2007	1	WJR07-890	I	0.890	51	N	N	N	N	0	1	C
10/07/1-87	10/31/2007	2	2007	1	WJR07-890	F	0.763	47	N	N	N	N	1	1	C
10/07/1-88	10/31/2007	2	2007	1	WJR07-890	M	1.530	58	N	N	N	N	1	1	C
10/07/1-89	10/31/2007	2	2007	1	WJR07-890	F	0.964	51	N	N	N	N	0	0	C
10/07/1-90	10/31/2007	2	2007	1	WJR07-890	F	1.147	53	N	N	N	N	1	1	C
10/07/1-91	10/31/2007	2	2007	1	WJR07-890	M	0.950	52	N	N	N	N	0	0	C
10/07/1-92	10/31/2007	2	2007	1	WJR07-890	F	1.040	52	N	N	N	N	1	1	C
10/07/1-93	10/31/2007	2	2007	1	WJR07-890	F	1.580	58	N	N	N	N	1	1	C

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
10/07/1-94	10/31/2007	2	2007	1	WJR07-890	M	1.423	56	N	N	N	N	1	1	C
10/07/2-70	10/30/2007	2	2007	2	SMC07-88	F	1.573	58	N	N	N	N	1	1	C
10/07/2-71	10/30/2007	2	2007	2	SMC07-88	F	1.111	50	N	N	N	N	0	0	C
10/07/2-72	10/30/2007	2	2007	2	SMC07-88	M	4.006	76	N	N	N	N	1	1	C
10/07/2-73	10/30/2007	2	2007	2	SMC07-88	F	1.136	51	N	N	N	N	0	0	N
10/07/2-74	10/30/2007	2	2007	2	SMC07-88	F	1.209	54	N	N	N	N	0	1	C
10/07/2-75	10/30/2007	2	2007	2	SMC07-88	F	1.449	57	N	N	N	N	1	0	C
10/07/2-76	10/30/2007	2	2007	2	SMC07-88	M	1.419	57	N	N	N	N	1	1	C
10/07/2-77	10/30/2007	2	2007	2	SMC07-88	F	1.446	58	N	N	N	N	0	2	C
10/07/2-78	10/30/2007	2	2007	2	SMC07-88	M	1.429	56	N	N	N	N	1	1	C
10/07/2-79	10/30/2007	2	2007	2	SMC07-88	F	1.994	63	N	N	N	N	1	1	C
10/07/2-80	10/30/2007	2	2007	2	SMC07-88	I	1.201	54	N	N	N	N	0	0	N
10/07/2-81	10/30/2007	2	2007	2	SMC07-88	I	1.682	54	N	N	N	N	1	1	C
10/07/2-82	10/30/2007	2	2007	2	SMC07-88	I	1.305	54	N	N	N	N	1	1	C
10/07/2-83	10/30/2007	2	2007	2	SMC07-88	I	1.599	59	N	N	N	N	1	1	C
10/07/2-84	10/30/2007	2	2007	2	SMC07-88	I	1.058	51	N	N	N	N	1	1	C
10/07/2-85	10/30/2007	2	2007	2	SMC07-88	I	1.585	57	N	N	N	N	2	2	C
10/07/2-86	10/30/2007	2	2007	2	SMC07-88	I	1.518	56	N	N	N	N	0	1	C
10/07/2-87	10/30/2007	2	2007	2	SMC07-88	F	1.386	56	N	N	N	N	1	1	CP
10/07/2-88	10/30/2007	2	2007	2	SMC07-88	F	1.132	53	N	N	N	N	1	1	C
10/07/2-89	10/30/2007	2	2007	2	SMC07-88	M	1.415	56	N	N	N	N	1	1	C
10/07/3-70	10/29/2007	2	2007	3	WJR10-29-07	F	5.390	82	N	N	N	N	1	1	C
10/07/3-71	10/29/2007	2	2007	3	WJR10-29-07	F	2.703	68	N	N	N	N	1	1	N
10/07/3-72	10/29/2007	2	2007	3	WJR10-29-07	M	4.023	72	N	N	N	N	1	1	C
10/07/3-73	10/29/2007	2	2007	3	WJR10-29-07	F	2.951	70	N	N	N	N	1	1	C
10/07/3-74	10/29/2007	2	2007	3	WJR10-29-07	F	3.207	72	N	N	N	N	1	1	C
10/07/3-75	10/29/2007	2	2007	3	WJR10-29-07	F	3.890	77	N	N	N	N	2	2	C
10/07/3-76	10/29/2007	2	2007	3	WJR10-29-07	M	1.792	59	N	N	N	N	1	2	CP
10/07/3-77	10/29/2007	2	2007	3	WJR10-29-07	F	1.497	59	N	N	N	N	1	1	C
10/07/3-78	10/29/2007	2	2007	3	WJR10-29-07	M	3.479	74	N	N	N	N	0	0	C
10/07/3-79	10/29/2007	2	2007	3	WJR10-29-07	M	3.179	71	N	N	N	N	1	1	C
10/07/3-80	10/29/2007	2	2007	3	WJR10-29-07	F	2.468	67	N	N	N	N	1	1	FC
10/07/3-81	10/29/2007	2	2007	3	WJR10-29-07	F	3.983	79	N	N	N	N	1	1	C
10/07/3-82	10/29/2007	2	2007	3	WJR10-29-07	F	2.744	68	N	N	N	N	1	1	C
10/07/3-83	10/29/2007	2	2007	3	WJR10-29-07	M	4.013	70	N	N	N	N	1	1	C
10/07/3-84	10/29/2007	2	2007	3	WJR10-29-07	F	3.354	75	N	N	N	N	1	1	C
10/07/4-70	10/25/2007	2	2007	4	SRD07-89	M	2.027	64	N	N	N	N	1	1	C
10/07/4-71	10/25/2007	2	2007	4	SRD07-89	F	1.776	59	N	N	N	N	0	0	N
10/07/4-72	10/25/2007	2	2007	4	SRD07-89	F	2.641	68	N	N	N	N	1	0	C
10/07/4-73	10/25/2007	2	2007	4	SRD07-89	F	2.028	65	N	N	N	N	1	1	C
10/07/4-74	10/25/2007	2	2007	4	SRD07-89	M	2.465	67	N	N	N	N	1	1	C
10/07/4-75	10/25/2007	2	2007	4	SRD07-89	M	1.639	69	N	N	N	N	0	0	N
10/07/4-76	10/25/2007	2	2007	4	SRD07-89	F	1.745	60	N	N	N	N	1	1	C
10/07/4-77	10/25/2007	2	2007	4	SRD07-89	F	1.492	55	N	N	N	N	1	1	C
10/07/4-78	10/25/2007	2	2007	4	SRD07-89	F	1.328	54	N	N	N	N	1	1	C

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
10/07/4-79	10/25/2007	2	2007	4	SRD07-89	F	1.931	61	N	N	N	N	0	0	C
10/07/4-80	10/25/2007	2	2007	4	SRD07-89	F	1.841	61	N	N	N	N	1	1	C
10/07/4-81	10/25/2007	2	2007	4	SRD07-89	F	1.375	54	N	N	L	N	1	1	FCP
10/07/4-82	10/25/2007	2	2007	4	SRD07-89	I	0.935	50	N	N	N	N	2	2	C
10/07/4-83	10/25/2007	2	2007	4	SRD07-89	F	1.601	59	N	N	N	N	2	2	CP
10/07/4-84	10/25/2007	2	2007	4	SRD07-89	F	1.952	62	N	N	N	N	1	1	C
10/07/4-85	10/25/2007	2	2007	4	SRD07-89	F	2.208	65	N	N	N	N	1	1	C
10/07/4-86	10/25/2007	2	2007	4	SRD07-89	I	1.194	50	N	N	N	N	1	1	C
10/07/4-87	10/25/2007	2	2007	4	SRD07-89	I	1.805	62	N	N	N	N	1	1	C
10/07/4-88	10/25/2007	2	2007	4	SRD07-89	M	1.878	61	N	N	N	N	1	1	C
10/07/4-89	10/25/2007	2	2007	4	SRD07-89	I	1.683	59	N	N	N	N	1	1	FCP
10/07/4-90	10/25/2007	2	2007	4	SRD07-89	I	1.637	58	N	N	N	N	1	1	CP
10/07/4-91	10/25/2007	2	2007	4	SRD07-89	F	1.410	54	N	N	N	N	1	1	C
10/07/4-92	10/25/2007	2	2007	4	SRD07-89	F	1.866	63	N	N	N	N	1	1	C
10/07/4-93	10/25/2007	2	2007	4	SRD07-89	M	1.719	58	N	N	N	P	0	0	C
10/07/4-94	10/25/2007	2	2007	4	SRD07-89	F	1.743	60	N	N	OT	N	1	1	C
10/07/5-70	10/24/2007	2	2007	5	SRD07-88	M	2.259	65	N	N	N	N	1	1	CP
10/07/5-71	10/24/2007	2	2007	5	SRD07-88	F	3.140	74	N	N	N	N	1	1	C
10/07/5-72	10/24/2007	2	2007	5	SRD07-88	M	1.871	61	N	N	N	N	1	1	P
10/07/5-73	10/24/2007	2	2007	5	SRD07-88	F	3.205	70	N	N	N	N	1	1	C
10/07/5-74	10/24/2007	2	2007	5	SRD07-88	M	2.721	73	N	N	N	N	1	1	C
10/07/5-75	10/24/2007	2	2007	5	SRD07-88	I	1.906	66	N	N	P	N	0	0	N
10/07/5-76	10/24/2007	2	2007	5	SRD07-88	F	2.585	67	N	N	N	N	2	2	C
10/07/5-77	10/24/2007	2	2007	5	SRD07-88	F	2.242	68	N	N	N	N	1	1	C
10/07/5-78	10/24/2007	2	2007	5	SRD07-88	F	2.494	66	N	N	N	N	2	1	C
10/07/5-79	10/24/2007	2	2007	5	SRD07-88	F	2.487	67	N	N	N	N	1	1	C
10/07/5-80	10/24/2007	2	2007	5	SRD07-88	F	1.751	59	N	N	N	N	0	0	P
10/07/5-81	10/24/2007	2	2007	5	SRD07-88	M	2.863	68	H	H	N	N	1	1	C
10/07/5-82	10/24/2007	2	2007	5	SRD07-88	M	2.644	70	N	N	N	N	0	1	C
10/07/5-83	10/24/2007	2	2007	5	SRD07-88	F	2.066	66	N	N	N	N	1	1	N
10/07/5-84	10/24/2007	2	2007	5	SRD07-88	F	2.732	68	N	N	N	N	1	1	C
10/07/5-85	10/24/2007	2	2007	5	SRD07-88	M	3.558	75	N	N	N	N	0	0	N
10/07/5-86	10/24/2007	2	2007	5	SRD07-88	F	3.120	72	N	N	N	P	0	0	N
10/07/5-87	10/24/2007	2	2007	5	SRD07-88	F	1.403	61	N	N	N	N	2	1	C
10/07/5-88	10/24/2007	2	2007	5	SRD07-88	M	3.362	74	N	N	N	N	0	0	N
10/07/5-89	10/24/2007	2	2007	5	SRD07-88	I	2.035	63	N	N	N	N	0	0	N
10/07/6-70	10/23/2007	2	2007	6	SRD07-87	M	3.220	71	N	N	N	N	1	1	N
10/07/6-71	10/23/2007	2	2007	6	SRD07-87	F	3.918	74	N	N	N	N	0	0	N
10/07/6-72	10/23/2007	2	2007	6	SRD07-87	F	2.104	63	N	N	N	N	1	1	P
10/07/6-73	10/23/2007	2	2007	6	SRD07-87	F	3.035	72	N	N	N	N	0	1	N
10/07/6-74	10/23/2007	2	2007	6	SRD07-87	F	1.152	51	N	N	N	N	0	1	P
10/07/6-75	10/23/2007	2	2007	6	SRD07-87	F	0.842	47	N	N	N	N	0	0	N
10/07/6-76	10/23/2007	2	2007	6	SRD07-87	M	5.416	92	N	N	N	N	0	0	N
10/07/6-77	10/23/2007	2	2007	6	SRD07-87	M	2.899	69	N	N	N	N	0	0	N
10/07/6-78	10/23/2007	2	2007	6	SRD07-87	M	3.067	70	N	N	N	N	1	0	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
10/07/6-79	10/23/2007	2	2007	6	SRD07-87	F	2.057	63	N	N	N	N	0	1	N
10/07/6-80	10/23/2007	2	2007	6	SRD07-87	M	1.814	60	N	N	N	N	2	2	C
10/07/6-81	10/23/2007	2	2007	6	SRD07-87	M	1.707	58	N	N	N	N	0	0	N
10/07/6-82	10/23/2007	2	2007	6	SRD07-87	F	0.720	45	N	N	N	N	1	2	CP
1/08/1-70	1/30/2008	2	2008	1	WJR08-715	M	0.882	49	N	N	N	N	2	2	N
1/08/1-71	1/30/2008	2	2008	1	WJR08-715	F	0.999	51	N	N	N	N	2	2	N
1/08/1-72	1/30/2008	2	2008	1	WJR08-715	M	0.595	47	N	N	N	N	2	2	N
1/08/1-73	1/30/2008	2	2008	1	WJR08-715	F	0.980	49	N	N	N	N	2	2	N
1/08/1-74	1/30/2008	2	2008	1	WJR08-715	M	0.747	50	N	N	N	N	2	2	N
1/08/1-75	1/30/2008	2	2008	1	WJR08-715	F	0.837	50	N	N	N	N	2	2	N
1/08/1-76	1/30/2008	2	2008	1	WJR08-715	F	0.579	44	N	N	N	N	2	2	N
1/08/1-77	1/30/2008	2	2008	1	WJR08-715	F	0.561	42	N	N	N	N	2	2	N
1/08/1-78	1/30/2008	2	2008	1	WJR08-715	F	1.158	54	N	N	N	N	2	2	N
1/08/1-79	1/30/2008	2	2008	1	WJR08-715	M	1.109	54	N	N	N	N	2	2	N
1/08/1-80	1/30/2008	2	2008	1	WJR08-715	F	3.303	75	N	N	N	N	2	2	N
1/08/1-81	1/30/2008	2	2008	1	WJR08-715	F	2.987	70	N	N	N	N	2	2	N
1/08/1-82	1/30/2008	2	2008	1	WJR08-715	M	2.429	67	N	N	N	N	2	2	N
1/08/1-83	1/30/2008	2	2008	1	WJR08-715	M	1.603	57	N	N	N	P	2	2	N
1/08/1-84	1/30/2008	2	2008	1	WJR08-715	F	1.043	50	N	N	N	N	2	2	N
1/08/1-85	1/30/2008	2	2008	1	WJR08-715	M	2.155	65	N	N	N	N	2	2	N
1/08/1-86	1/30/2008	2	2008	1	WJR08-715	M	2.384	66	N	N	N	N	2	2	N
1/08/1-87	1/30/2008	2	2008	1	WJR08-715	M	0.640	43	N	N	N	P	2	2	MP
1/08/1-88	1/30/2008	2	2008	1	WJR08-715	M	0.458	40	N	N	N	N	2	2	N
1/08/1-89	1/30/2008	2	2008	1	WJR08-715	F	0.790	45	N	N	N	N	0	0	N
1/08/1-90	1/30/2008	2	2008	1	WJR08-715	M	0.639	44	N	N	N	N	2	2	P
1/08/1-91	1/30/2008	2	2008	1	WJR08-715	M	1.001	51	N	N	N	N	2	2	N
1/08/1-92	1/30/2008	2	2008	1	WJR08-715	M	1.187	52	N	N	N	N	2	2	N
1/08/1-93	1/30/2008	2	2008	1	WJR08-715	F	0.772	49	N	N	N	N	2	2	MP
1/08/1-94	1/30/2008	2	2008	1	WJR08-715	M	0.780	47	N	N	N	N	2	2	MP
1/08/1-95	1/30/2008	2	2008	1	WJR08-715	F	1.526	55	N	N	N	N	2	2	N
1/08/1-96	1/30/2008	2	2008	1	WJR08-715	M	1.149	55	N	N	N	OT	2	2	N
1/08/1-97	1/30/2008	2	2008	1	WJR08-715	F	0.449	38	N	N	N	N	2	2	MP
1/08/1-98	1/30/2008	2	2008	1	WJR08-715	M	0.925	52	N	N	N	N	2	2	N
1/08/1-99	1/30/2008	2	2008	1	WJR08-715	M	0.891	49	N	N	N	N	2	2	P
1/08/2-70	1/29/2008	2	2008	2	WJR08-714	M	1.413	55	N	N	N	N	2	2	OT
1/08/2-71	1/29/2008	2	2008	2	WJR08-714	M	2.560	67	N	N	N	N	2	2	M OT
1/08/2-72	1/29/2008	2	2008	2	WJR08-714	F	1.173	52	N	N	N	N	2	2	OT
1/08/2-73	1/29/2008	2	2008	2	WJR08-714	M	1.581	60	N	N	N	N	2	2	OT
1/08/2-74	1/29/2008	2	2008	2	WJR08-714	F		62	N	N	N	N	2	2	N
1/08/2-75	1/29/2008	2	2008	2	WJR08-714	M	1.174	55	N	N	N	N	2	2	N
1/08/2-76	1/29/2008	2	2008	2	WJR08-714	M	2.624	70	N	N	N	N	2	2	N
1/08/2-77	1/29/2008	2	2008	2	WJR08-714	M	1.152	55	N	N	N	N	2	2	N
1/08/2-78	1/29/2008	2	2008	2	WJR08-714	M	2.180	66	N	N	N	N	2	2	N
1/08/2-79	1/29/2008	2	2008	2	WJR08-714	M	1.662	62	N	N	N	N	2	2	N
1/08/2-80	1/29/2008	2	2008	2	WJR08-714	M	6.085	93	N	N	N	N	2	2	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
1/08/2-81	1/29/2008	2	2008	2	WJR08-714	F	1.528	61	N	N	N	N	2	2	N
1/08/2-82	1/29/2008	2	2008	2	WJR08-714	F	1.886	62	N	N	N	OT	2	2	M
1/08/2-83	1/29/2008	2	2008	2	WJR08-714	M	1.964	66	N	N	N	N	2	2	N
1/08/2-84	1/29/2008	2	2008	2	WJR08-714	M	0.945	51	N	N	N	N	2	2	N
1/08/2-85	1/29/2008	2	2008	2	WJR08-714	M	1.548	60	N	N	N	N	2	2	N
1/08/2-86	1/29/2008	2	2008	2	WJR08-714	F	1.355	57	N	N	N	N	2	2	N
1/08/2-87	1/29/2008	2	2008	2	WJR08-714	F	1.694	60	N	N	N	N	2	2	N
1/08/2-88	1/29/2008	2	2008	2	WJR08-714	F	1.268	55	N	N	N	N	2	2	N
1/08/2-89	1/29/2008	2	2008	2	WJR08-714	M	1.785	62	N	N	N	N	2	2	N
1/08/2-90	1/29/2008	2	2008	2	WJR08-714	F	2.672	69	N	N	N	N	2	2	N
1/08/2-91	1/29/2008	2	2008	2	WJR08-714	M	1.151	55	N	N	N	OT	2	2	P
1/08/2-92	1/29/2008	2	2008	2	WJR08-714	F	1.420	56	N	N	N	N	2	2	N
1/08/2-93	1/29/2008	2	2008	2	WJR08-714	M	2.173	65	N	N	N	N	2	2	N
1/08/2-94	1/29/2008	2	2008	2	WJR08-714	F	4.207	80	N	N	N	N	2	2	N
1/08/2-95	1/29/2008	2	2008	2	WJR08-714	F	1.054	52	N	N	N	N	2	2	N
1/08/2-96	1/29/2008	2	2008	2	WJR08-714	F	1.251	55	N	N	N	N	2	2	N
1/08/2-97	1/29/2008	2	2008	2	WJR08-714	F	1.575	57	N	N	N	N	2	2	N
1/08/2-98	1/29/2008	2	2008	2	WJR08-714	M	2.361	67	N	N	N	N	2	2	N
1/08/2-99	1/29/2008	2	2008	2	WJR08-714	F	1.273	55	N	N	N	N	2	2	N
1/08/3-70	1/28/2008	2	2008	3	WJR08-710	M	1.304	56	N	N	N	N	2	2	N
1/08/3-71	1/28/2008	2	2008	3	WJR08-710	M	1.980	65	N	N	N	N	2	2	N
1/08/3-72	1/28/2008	2	2008	3	WJR08-710	F	1.466	57	N	N	N	N	2	2	N
1/08/3-73	1/28/2008	2	2008	3	WJR08-710	F	0.877	50	N	N	N	N	2	2	N
1/08/3-74	1/28/2008	2	2008	3	WJR08-710	F	1.463	58	N	N	N	N	2	2	N
1/08/3-75	1/28/2008	2	2008	3	WJR08-710	F	1.976	65	N	N	N	N	2	2	N
1/08/3-76	1/28/2008	2	2008	3	WJR08-710	F	3.028	73	N	N	N	N	2	2	N
1/08/3-77	1/28/2008	2	2008	3	WJR08-710	F	0.606	46	N	N	N	N	2	2	N
1/08/3-78	1/28/2008	2	2008	3	WJR08-710	M	0.623	45	N	N	N	N	2	2	N
1/08/3-79	1/28/2008	2	2008	3	WJR08-710	F	1.987	65	N	N	N	N	2	2	N
1/08/3-80	1/28/2008	2	2008	3	WJR08-710	F	1.227	55	N	N	N	N	2	2	N
1/08/3-81	1/28/2008	2	2008	3	WJR08-710	M	1.565	60	N	N	N	N	2	2	N
1/08/3-82	1/28/2008	2	2008	3	WJR08-710	F	1.390	57	N	N	N	N	2	2	N
1/08/3-83	1/28/2008	2	2008	3	WJR08-710	F	3.389	75	N	N	N	N	2	2	N
1/08/3-84	1/28/2008	2	2008	3	WJR08-710	F	0.743	46	N	N	N	N	2	2	N
1/08/3-85	1/28/2008	2	2008	3	WJR08-710	F	2.661	71	N	N	N	N	2	2	N
1/08/3-86	1/28/2008	2	2008	3	WJR08-710	F	1.288	58	N	N	N	N	2	2	N
1/08/3-87	1/28/2008	2	2008	3	WJR08-710	F	1.300	56	N	N	N	N	2	2	N
1/08/3-88	1/28/2008	2	2008	3	WJR08-710	M	0.904	49	N	N	N	N	2	2	N
1/08/3-89	1/28/2008	2	2008	3	WJR08-710	F	1.248	55	N	N	N	N	2	2	N
1/08/3-90	1/28/2008	2	2008	3	WJR08-710	I	0.974	50	N	N	N	N	2	2	N
1/08/3-91	1/28/2008	2	2008	3	WJR08-710	F	1.570	57	N	N	N	L	2	2	N
1/08/3-92	1/28/2008	2	2008	3	WJR08-710	F	0.833	50	N	N	N	L	2	2	N
1/08/3-93	1/28/2008	2	2008	3	WJR08-710	F	1.889	64	N	N	N	N	2	2	N
1/08/3-94	1/28/2008	2	2008	3	WJR08-710	F	1.434	58	N	N	N	N	2	2	C
1/08/3-95	1/28/2008	2	2008	3	WJR08-710	M	3.358	76	N	N	N	N	2	2	MP

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
1/08/3-96	1/28/2008	2	2008	3	WJR08-710	M	1.162	58	N	N	N	N	2	2	P
1/08/3-97	1/28/2008	2	2008	3	WJR08-710	M	2.024	64	N	N	N	N	2	2	N
1/08/3-98	1/28/2008	2	2008	3	WJR08-710	I	1.109	54	N	N	N	N	2	2	MP
1/08/3-99	1/28/2008	2	2008	3	WJR08-710	F	1.156	55	N	N	N	N	2	2	M
1/08/4-70	1/24/2008	2	2008	4	WJR08-705	F	3.022	70	N	N	N	N	2	2	N
1/08/4-71	1/24/2008	2	2008	4	WJR08-705	M	1.376	55	N	N	N	N	2	2	N
1/08/4-72	1/24/2008	2	2008	4	WJR08-705	F	1.063	50	N	N	N	N	2	2	N
1/08/4-73	1/24/2008	2	2008	4	WJR08-705	M	1.486	56	N	N	N	N	2	2	N
1/08/4-74	1/24/2008	2	2008	4	WJR08-705	F	1.402	55	N	N	N	N	2	2	N
1/08/4-75	1/24/2008	2	2008	4	WJR08-705	F	1.571	56	N	N	N	N	0	0	N
1/08/4-76	1/24/2008	2	2008	4	WJR08-705	F	1.793	62	N	N	N	N	2	2	N
1/08/4-77	1/24/2008	2	2008	4	WJR08-705	F	1.297	53	N	N	N	N	2	2	N
1/08/4-78	1/24/2008	2	2008	4	WJR08-705	M	1.193	52	N	N	N	N	2	2	N
1/08/4-79	1/24/2008	2	2008	4	WJR08-705	M	2.451	69	N	N	N	N	0	0	N
1/08/4-80	1/24/2008	2	2008	4	WJR08-705	F	1.084	50	N	N	N	N	2	2	N
1/08/4-81	1/24/2008	2	2008	4	WJR08-705	F	1.915	60	N	N	N	N	2	2	N
1/08/4-82	1/24/2008	2	2008	4	WJR08-705	M	1.388	57	N	N	N	N	2	2	N
1/08/4-83	1/24/2008	2	2008	4	WJR08-705	F	1.288	56	N	N	N	N	2	2	N
1/08/4-84	1/24/2008	2	2008	4	WJR08-705	M	1.555	59	N	N	N	N	2	2	N
1/08/4-85	1/24/2008	2	2008	4	WJR08-705	M	1.549	57	N	N	N	N	2	2	N
1/08/4-86	1/24/2008	2	2008	4	WJR08-705	M	1.326	57	N	N	N	N	2	2	N
1/08/4-87	1/24/2008	2	2008	4	WJR08-705	F	2.437	68	N	N	N	N	2	2	N
1/08/4-88	1/24/2008	2	2008	4	WJR08-705	F	1.204	58	N	N	N	N	2	2	N
1/08/4-89	1/24/2008	2	2008	4	WJR08-705	F	1.666	59	N	N	N	N	2	2	N
1/08/4-90	1/24/2008	2	2008	4	WJR08-705	F	0.765	47	N	N	N	N	2	2	N
1/08/4-91	1/24/2008	2	2008	4	WJR08-705	F	1.287	54	N	N	N	N	2	2	N
1/08/4-92	1/24/2008	2	2008	4	WJR08-705	M	1.936	61	N	N	N	N	2	2	N
1/08/4-93	1/24/2008	2	2008	4	WJR08-705	M	1.566	58	N	N	N	N	0	0	N
1/08/4-94	1/24/2008	2	2008	4	WJR08-705	M	1.684	60	N	N	N	N	2	2	N
1/08/4-95	1/24/2008	2	2008	4	WJR08-705	F	1.911	64	N	N	N	N	2	2	N
1/08/4-96	1/24/2008	2	2008	4	WJR08-705	M	2.250	64	N	N	N	N	2	2	N
1/08/4-97	1/24/2008	2	2008	4	WJR08-705	M	1.657	59	N	N	N	N	2	2	N
1/08/4-98	1/24/2008	2	2008	4	WJR08-705	M	1.565	57	N	N	N	N	2	2	N
1/08/4-99	1/24/2008	2	2008	4	WJR08-705	F	2.056	59	N	N	N	N	2	2	N
1/08/5-70	1/23/2008	2	2008	5	WJR08-704	F	3.426	74	N	N	N	N	2	2	N
1/08/5-71	1/23/2008	2	2008	5	WJR08-704	M	3.383	72	N	N	N	N	2	2	N
1/08/5-72	1/23/2008	2	2008	5	WJR08-704	F	3.480	73	N	N	N	N	2	2	N
1/08/5-73	1/23/2008	2	2008	5	WJR08-704	M	2.323	65	N	N	N	N	2	2	N
1/08/5-74	1/23/2008	2	2008	5	WJR08-704	F	2.817	67	N	N	N	N	2	2	N
1/08/5-75	1/23/2008	2	2008	5	WJR08-704	M	2.158	65	N	N	N	N	2	2	N
1/08/5-76	1/23/2008	2	2008	5	WJR08-704	F	2.573	67	N	N	N	L	2	2	N
1/08/5-77	1/23/2008	2	2008	5	WJR08-704	F	2.295	67	N	N	N	N	2	2	N
1/08/5-78	1/23/2008	2	2008	5	WJR08-704	F	1.793	65	N	N	N	N	2	2	N
1/08/5-79	1/23/2008	2	2008	5	WJR08-704	M	2.915	70	N	N	N	N	2	2	N
1/08/5-80	1/23/2008	2	2008	5	WJR08-704	M	2.480	67	N	N	N	N	2	2	N

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
1/08/5-81	1/23/2008	2	2008	5	WJR08-704	F	4.299	80	N	N	N	N	2	2	N
1/08/5-82	1/23/2008	2	2008	5	WJR08-704	F	3.053	73	N	N	N	N	2	1	N
1/08/5-83	1/23/2008	2	2008	5	WJR08-704	M	3.927	76	N	N	N	N	2	2	N
1/08/5-84	1/23/2008	2	2008	5	WJR08-704	M	0.585	36	N	N	N	OT	1	2	N
1/08/5-85	1/23/2008	2	2008	5	WJR08-704	F	2.277	67	N	N	N	N	2	2	N
1/08/5-86	1/23/2008	2	2008	5	WJR08-704	F	3.009	70	N	N	N	N	2	2	N
1/08/5-87	1/23/2008	2	2008	5	WJR08-704	F	3.457	74	N	N	N	N	2	2	N
1/08/5-88	1/23/2008	2	2008	5	WJR08-704	M	2.971	74	N	N	N	N	2	2	N
1/08/5-89	1/23/2008	2	2008	5	WJR08-704	M	1.490	58	N	N	N	N	2	2	N
1/08/5-90	1/23/2008	2	2008	5	WJR08-704	M	2.334	66	N	N	N	N	2	2	N
1/08/5-91	1/23/2008	2	2008	5	WJR08-704	M	2.552	67	N	N	N	N	2	2	N
1/08/5-92	1/23/2008	2	2008	5	WJR08-704	M	2.457	66	N	N	N	N	2	2	N
1/08/5-93	1/23/2008	2	2008	5	WJR08-704	M	3.071	72	N	N	N	N	2	2	N
1/08/5-94	1/23/2008	2	2008	5	WJR08-704	M	2.870	71	N	N	N	N	1	1	N
1/08/5-95	1/23/2008	2	2008	5	WJR08-704	M	2.777	68	N	N	N	N	2	2	N
1/08/5-96	1/23/2008	2	2008	5	WJR08-704	F	2.070	67	N	N	N	LP	2	2	N
1/08/5-97	1/23/2008	2	2008	5	WJR08-704	F	4.551	80	N	N	N	N	2	2	N
1/08/5-98	1/23/2008	2	2008	5	WJR08-704	M	3.071	70	N	N	N	N	2	2	N
1/08/5-99	1/23/2008	2	2008	5	WJR08-704	M	2.463	70	N	N	N	N	2	2	N
1/08/6-70	1/22/2008	2	2008	6	WJR08-703	F	1.997	52	N	N	N	N	2	2	N
1/08/6-71	1/22/2008	2	2008	6	WJR08-703	M	3.357	75	N	N	N	N	2	2	P
1/08/6-72	1/22/2008	2	2008	6	WJR08-703	F	1.345	57	N	N	N	N	1	1	P
1/08/6-73	1/22/2008	2	2008	6	WJR08-703	F	0.575	40	N	N	N	N	1	2	P
1/08/6-74	1/22/2008	2	2008	6	WJR08-703	F	3.348	73	N	N	N	N	1	1	N
1/08/6-75	1/22/2008	2	2008	6	WJR08-703	F	0.764	45	N	N	N	N	2	2	N
1/08/6-76	1/22/2008	2	2008	6	WJR08-703	F	1.548	56	N	N	N	N	2	2	N
1/08/6-77	1/22/2008	2	2008	6	WJR08-703	F	4.492	81	N	N	N	N	1	1	N
1/08/6-78	1/22/2008	2	2008	6	WJR08-703	M	4.041	74	N	N	N	N	1	1	N
1/08/6-79	1/22/2008	2	2008	6	WJR08-703	F	2.150	65	N	N	N	N	2	2	N
1/08/6-80	1/22/2008	2	2008	6	WJR08-703	F	2.104	65	N	N	N	N	2	2	N
1/08/6-81	1/22/2008	2	2008	6	WJR08-703	M	2.182	66	N	N	N	N	1	1	N
1/08/6-82	1/22/2008	2	2008	6	WJR08-703	F	0.866	50	N	N	N	N	1	1	N
1/08/6-83	1/22/2008	2	2008	6	WJR08-703	F	1.313	55	N	N	N	N	2	2	N
1/08/6-84	1/22/2008	2	2008	6	WJR08-703	F	1.061	56	N	N	N	N	2	2	N
1/08/6-85	1/22/2008	2	2008	6	WJR08-703	M	2.819	70	N	N	N	N	2	2	N
1/08/6-86	1/22/2008	2	2008	6	WJR08-703	F	1.244	53	N	N	N	N	1	1	N
1/08/6-87	1/22/2008	2	2008	6	WJR08-703	M	1.502	58	N	N	N	N	2	2	N
1/08/6-88	1/22/2008	2	2008	6	WJR08-703	F	2.153	68	N	N	N	N	2	2	N
1/08/6-89	1/22/2008	2	2008	6	WJR08-703	M	1.311	55	N	N	N	N	2	2	N
1/08/6-90	1/22/2008	2	2008	6	WJR08-703	F	2.832	73	N	N	N	N	2	2	N
1/08/6-91	1/22/2008	2	2008	6	WJR08-703	M	1.293	55	N	N	N	L	2	2	N
1/08/6-92	1/22/2008	2	2008	6	WJR08-703	M	1.383	55	N	N	N	N	2	2	N
1/08/6-93	1/22/2008	2	2008	6	WJR08-703	M	0.986	51	N	N	N	N	2	2	N
1/08/6-94	1/22/2008	2	2008	6	WJR08-703	M	2.463	69	N	N	N	N	2	2	N
1/08/6-95	1/22/2008	2	2008	6	WJR08-703	M	3.105	75	N	N	N	N	2	2	N

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SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
1/08/6-96	1/22/2008	2	2008	6	WJR08-703	M	3.433	74	N	N	N	N	2	2	N
1/08/6-97	1/22/2008	2	2008	6	WJR08-703	M	3.793	75	N	N	N	N	2	2	N
1/08/6-98	1/22/2008	2	2008	6	WJR08-703	F	1.224	60	N	N	N	N	2	2	N
1/08/6-99	1/22/2008	2	2008	6	WJR08-703	F	1.866	62	N	N	N	N	2	2	N
4/08/1-70	4/16/2008	2	2008	1	WJR08-731	F	0.841	45	N	N	N	N	1	1	P
4/08/1-71	4/16/2008	2	2008	1	WJR08-731	F	1.258	52	N	N	N	N	1	1	C
4/08/1-72	4/16/2008	2	2008	1	WJR08-731	M	1.343	53	N	N	N	N	0	0	C
4/08/1-73	4/16/2008	2	2008	1	WJR08-731	M	1.289	50	N	N	N	N	1	1	C
4/08/1-74	4/16/2008	2	2008	1	WJR08-731	F	2.403	62	N	N	N	N	1	1	C
4/08/1-75	4/16/2008	2	2008	1	WJR08-731	F	1.543	52	N	N	N	N	1	1	C
4/08/1-76	4/16/2008	2	2008	1	WJR08-731	M	0.698	41	N	N	N	N	0	0	CP
4/08/1-77	4/16/2008	2	2008	1	WJR08-731	F	1.220	49	N	N	N	N	1	1	CP
4/08/1-78	4/16/2008	2	2008	1	WJR08-731	M	1.605	53	N	N	N	N	1	1	CP
4/08/1-79	4/16/2008	2	2008	1	WJR08-731	F	1.116	48	N	N	N	N	1	1	N
4/08/1-80	4/16/2008	2	2008	1	WJR08-731	M	2.379	62	N	N	N	N	1	1	N
4/08/1-81	4/16/2008	2	2008	1	WJR08-731	F	1.092	48	N	N	N	N	1	1	N
4/08/1-82	4/16/2008	2	2008	1	WJR08-731	F	1.382	52	N	N	N	N	1	1	FCP
4/08/1-83	4/16/2008	2	2008	1	WJR08-731	M	0.947	46	N	N	N	N	1	0	N
4/08/1-84	4/16/2008	2	2008	1	WJR08-731	F	2.048	59	N	N	N	N	1	1	C
4/08/1-85	4/16/2008	2	2008	1	WJR08-731	M	1.264	50	N	N	N	N	1	1	C
4/08/1-86	4/16/2008	2	2008	1	WJR08-731	M	1.358	50	N	N	N	N	1	1	CP
4/08/1-87	4/16/2008	2	2008	1	WJR08-731	M	1.231	50	N	N	N	N	2	1	C
4/08/1-88	4/16/2008	2	2008	1	WJR08-731	M	0.689	42	N	N	N	N	1	1	N
4/08/1-89	4/16/2008	2	2008	1	WJR08-731	F	1.350	52	N	N	N	N	1	1	C
4/08/1-90	4/16/2008	2	2008	1	WJR08-731	F	0.907	46	N	N	N	N	1	1	CP
4/08/1-91	4/16/2008	2	2008	1	WJR08-731	M	2.077	62	N	N	N	N	1	1	C
4/08/1-92	4/16/2008	2	2008	1	WJR08-731	F	1.053	49	N	N	N	N	1	1	N
4/08/1-93	4/16/2008	2	2008	1	WJR08-731	F	1.419	50	N	N	N	N	1	1	CP
4/08/1-94	4/16/2008	2	2008	1	WJR08-731	M	0.720	42	N	N	N	N	1	1	N
4/08/1-95	4/16/2008	2	2008	1	WJR08-731	F	0.950	46	N	N	N	N	0	0	N
4/08/1-96	4/16/2008	2	2008	1	WJR08-731	M	1.622	59	N	N	N	N	0	0	P
4/08/1-97	4/16/2008	2	2008	1	WJR08-731	M	0.764	43	N	N	N	N	1	1	CP
4/08/1-98	4/16/2008	2	2008	1	WJR08-731	M	0.618	42	N	N	N	N	1	0	N
4/08/1-99	4/16/2008	2	2008	1	WJR08-731	M	1.881	58	N	N	N	N	1	1	C
4/08/2-70	4/15/2008	2	2008	2	WJR08-730	M	2.223	59	N	N	N	N	1	1	C
4/08/2-71	4/15/2008	2	2008	2	WJR08-730	M	2.140	62	N	N	N	N	1	1	C
4/08/2-72	4/15/2008	2	2008	2	WJR08-730	M	2.492	65	N	N	N	N	1	1	C
4/08/2-73	4/15/2008	2	2008	2	WJR08-730	M	2.460	64	N	N	N	N	1	1	C
4/08/2-74	4/15/2008	2	2008	2	WJR08-730	F	3.500	69	N	N	N	N	1	1	C
4/08/2-75	4/15/2008	2	2008	2	WJR08-730	F	2.436	63	N	N	N	N	1	1	C
4/08/2-76	4/15/2008	2	2008	2	WJR08-730	M	2.145	58	N	N	N	N	1	1	C
4/08/2-77	4/15/2008	2	2008	2	WJR08-730	F	0.925	46	N	N	N	N	1	1	P
4/08/2-78	4/15/2008	2	2008	2	WJR08-730	F	2.490	61	N	N	N	N	1	1	N
4/08/2-79	4/15/2008	2	2008	2	WJR08-730	M	1.925	60	N	N	N	N	1	1	C
4/08/2-80	4/15/2008	2	2008	2	WJR08-730	F	1.528	51	N	N	N	N	1	1	CP

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
4/08/2-81	4/15/2008	2	2008	2	WJR08-730	M	2.502	61	N	N	N	N	0	0	N
4/08/2-82	4/15/2008	2	2008	2	WJR08-730	M	1.593	55	N	N	N	N	1	1	CP
4/08/2-83	4/15/2008	2	2008	2	WJR08-730	F	2.370	62	N	N	N	N	1	1	P
4/08/2-84	4/15/2008	2	2008	2	WJR08-730	M	0.790	42	N	N	N	N	0	0	P
4/08/2-85	4/15/2008	2	2008	2	WJR08-730	M	2.360	65	N	N	N	N	1	1	C
4/08/2-86	4/15/2008	2	2008	2	WJR08-730	F	0.977	47	N	N	N	N	1	1	CP
4/08/2-87	4/15/2008	2	2008	2	WJR08-730	M	0.942	49	N	N	N	N	1	1	N
4/08/2-88	4/15/2008	2	2008	2	WJR08-730	F	0.843	47	N	N	N	N	1	1	P
4/08/2-89	4/15/2008	2	2008	2	WJR08-730	M	1.783	55	N	N	N	N	1	1	P
4/08/2-90	4/15/2008	2	2008	2	WJR08-730	M	0.713	44	N	N	N	N	0	1	P
4/08/2-91	4/15/2008	2	2008	2	WJR08-730	F	0.693	43	N	N	N	N	1	0	CP
4/08/2-92	4/15/2008	2	2008	2	WJR08-730	F	0.979	47	N	N	N	N	0	0	N
4/08/2-93	4/15/2008	2	2008	2	WJR08-730	F	1.209	57	N	N	N	N	1	1	CP
4/08/2-94	4/15/2008	2	2008	2	WJR08-730	F	2.467	61	N	N	N	N	1	1	C
4/08/2-95	4/15/2008	2	2008	2	WJR08-730	M	2.255	63	N	N	N	N	1	1	C
4/08/2-96	4/15/2008	2	2008	2	WJR08-730	F	0.671	43	N	N	N	N	0	1	CP
4/08/2-97	4/15/2008	2	2008	2	WJR08-730	F	0.849	45	N	N	N	N	1	1	C
4/08/2-98	4/15/2008	2	2008	2	WJR08-730	M	4.368	78	N	N	N	N	1	1	C
4/08/2-99	4/15/2008	2	2008	2	WJR08-730	M	2.320	64	N	N	N	N	1	1	C
4/08/3-70	4/14/2008	2	2008	3	WJR08-729	F	4.597	78	N	N	N	N	1	2	OT
4/08/3-71	4/14/2008	2	2008	3	WJR08-729	M	3.216	69	N	N	N	N	1	1	C
4/08/3-72	4/14/2008	2	2008	3	WJR08-729	M	3.221	70	N	N	N	N	1	1	CP
4/08/3-73	4/14/2008	2	2008	3	WJR08-729	F	1.567	54	N	N	N	N	1	1	CP
4/08/3-74	4/14/2008	2	2008	3	WJR08-729	F	2.821	62	N	N	N	N	1	1	C
4/08/3-75	4/14/2008	2	2008	3	WJR08-729	M	3.732	72	N	N	N	N	1	1	C
4/08/3-76	4/14/2008	2	2008	3	WJR08-729	F	2.237	50	N	N	N	N	0	1	C
4/08/3-77	4/14/2008	2	2008	3	WJR08-729	F	1.410	53	N	N	N	N	0	0	C
4/08/3-78	4/14/2008	2	2008	3	WJR08-729	F	3.178	65	N	N	N	N	1	1	C
4/08/3-79	4/14/2008	2	2008	3	WJR08-729	F	4.486	71	N	N	N	N	1	1	C
4/08/3-80	4/14/2008	2	2008	3	WJR08-729	F	3.056	67	N	N	N	N	1	1	CP
4/08/3-81	4/14/2008	2	2008	3	WJR08-729	F	7.304	85	N	N	N	N	0	0	C
4/08/3-82	4/14/2008	2	2008	3	WJR08-729	M	2.148	59	N	N	N	N	1	1	C
4/08/3-83	4/14/2008	2	2008	3	WJR08-729	F	2.626	64	N	N	N	N	0	1	C
4/08/3-84	4/14/2008	2	2008	3	WJR08-729	M	1.317	52	N	N	N	N	1	1	C
4/08/3-85	4/14/2008	2	2008	3	WJR08-729	F	2.785	66	N	N	N	N	1	1	C
4/08/3-86	4/14/2008	2	2008	3	WJR08-729	M	3.254	69	N	N	N	N	0	1	C
4/08/3-87	4/14/2008	2	2008	3	WJR08-729	F	2.726	62	N	N	N	N	1	1	CP
4/08/3-88	4/14/2008	2	2008	3	WJR08-729	M	1.712	55	N	N	N	OT	2	0	C
4/08/3-89	4/14/2008	2	2008	3	WJR08-729	M	2.637	63	N	N	N	N	1	1	C
4/08/3-90	4/14/2008	2	2008	3	WJR08-729	F	2.251	57	N	N	N	N	0	0	C
4/08/3-91	4/14/2008	2	2008	3	WJR08-729	F	3.814	69	N	N	N	N	1	1	CP
4/08/3-92	4/14/2008	2	2008	3	WJR08-729	M	2.960	67	N	N	N	N	2	2	C
4/08/3-93	4/14/2008	2	2008	3	WJR08-729	M	1.763	57	N	N	N	N	0	0	C
4/08/3-94	4/14/2008	2	2008	3	WJR08-729	M	2.328	64	N	N	N	N	1	1	C
4/08/3-95	4/14/2008	2	2008	3	WJR08-729	F	2.833	65	N	N	N	N	1	1	C

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
4/08/3-96	4/14/2008	2	2008	3	WJR08-729	M	2.236	58	N	N	N	N	1	1	C
4/08/3-97	4/14/2008	2	2008	3	WJR08-729	M	1.567	54	N	N	N	N	0	1	C
4/08/3-98	4/14/2008	2	2008	3	WJR08-729	F	1.496	53	N	N	N	N	1	1	C
4/08/3-99	4/14/2008	2	2008	3	WJR08-729	F	1.691	55	N	N	N	N	1	1	C
4/08/4-70	4/8/2008	2	2008	4	WJR08-726	M	1.189	51	N	N	N	N	2	2	C
4/08/4-71	4/8/2008	2	2008	4	WJR08-726	F	1.330	54	N	N	N	N	1	1	C
4/08/4-72	4/8/2008	2	2008	4	WJR08-726	M	1.243	52	N	N	N	N	1	1	N
4/08/4-73	4/8/2008	2	2008	4	WJR08-726	M	4.496	75	N	N	N	N	1	1	C
4/08/4-74	4/8/2008	2	2008	4	WJR08-726	M	2.119	59	N	N	N	N	0	0	C
4/08/4-75	4/8/2008	2	2008	4	WJR08-726	F	1.556	53	N	N	N	N	1	0	CP
4/08/4-76	4/8/2008	2	2008	4	WJR08-726	M	1.641	55	N	N	N	N	1	1	CP
4/08/4-77	4/8/2008	2	2008	4	WJR08-726	F	2.332	60	N	N	N	N	1	1	CP
4/08/4-78	4/8/2008	2	2008	4	WJR08-726	F	2.326	56	N	N	N	N	1	1	CP
4/08/4-79	4/8/2008	2	2008	4	WJR08-726	M	1.440	55	N	N	N	N	2	2	C
4/08/4-80	4/8/2008	2	2008	4	WJR08-726	M	2.026	60	N	N	N	N	1	1	C
4/08/4-81	4/8/2008	2	2008	4	WJR08-726	M	1.818	58	N	N	N	N	0	0	CP
4/08/4-82	4/8/2008	2	2008	4	WJR08-726	M	1.002	46	N	N	N	N	1	1	C
4/08/4-83	4/8/2008	2	2008	4	WJR08-726	F	1.478	54	N	N	N	N	1	1	C
4/08/4-84	4/8/2008	2	2008	4	WJR08-726	F	1.174	51	N	N	N	N	1	1	C
4/08/4-85	4/8/2008	2	2008	4	WJR08-726	F	2.744	64	N	N	N	N	1	1	CP
4/08/4-86	4/8/2008	2	2008	4	WJR08-726	M	1.497	55	N	N	N	N	1	1	CP
4/08/4-87	4/8/2008	2	2008	4	WJR08-726	F	1.252	48	N	N	N	N	1	1	C
4/08/4-88	4/8/2008	2	2008	4	WJR08-726	F	1.137	49	N	N	N	N	1	0	N
4/08/4-89	4/8/2008	2	2008	4	WJR08-726	F	1.918	60	N	N	N	N	1	1	N
4/08/4-90	4/8/2008	2	2008	4	WJR08-726	M	1.650	56	N	N	N	N	1	1	C
4/08/4-91	4/8/2008	2	2008	4	WJR08-726	M	1.123	49	N	N	N	N	1	1	P
4/08/4-92	4/8/2008	2	2008	4	WJR08-726	M	2.080	60	N	N	N	N	1	1	N
4/08/4-93	4/8/2008	2	2008	4	WJR08-726	F	1.286	49	N	N	N	N	1	1	P
4/08/4-94	4/8/2008	2	2008	4	WJR08-726	M	3.023	71	N	N	N	N	1	1	N
4/08/4-95	4/8/2008	2	2008	4	WJR08-726	F	1.431	51	N	N	N	N	1	1	CP
4/08/4-96	4/8/2008	2	2008	4	WJR08-726	M	1.073	50	N	N	N	N	1	1	C
4/08/4-97	4/8/2008	2	2008	4	WJR08-726	F	1.398	51	N	N	N	N	1	1	N
4/08/4-98	4/8/2008	2	2008	4	WJR08-726	F	0.922	46	N	N	N	N	1	1	CP
4/08/4-99	4/8/2008	2	2008	4	WJR08-726	F	0.786	48	N	N	N	N	1	1	N
4/08/6-70	4/9/2008	2	2008	6	WJR08-727	M	1.230	58	N	N	N	N	1	1	C
4/08/6-71	4/9/2008	2	2008	6	WJR08-727	F	2.471	63	N	N	N	N	1	1	N
4/08/6-72	4/9/2008	2	2008	6	WJR08-727	F	2.573	75	N	N	N	N	1	1	N
4/08/6-73	4/9/2008	2	2008	6	WJR08-727	F	2.496	65	N	N	N	N	0	0	N
4/08/6-74	4/9/2008	2	2008	6	WJR08-727	F	1.027	54	N	N	N	N	1	1	N
4/08/6-75	4/9/2008	2	2008	6	WJR08-727	F	2.091	59	N	N	N	N	1	1	N
4/08/6-76	4/9/2008	2	2008	6	WJR08-727	F	1.938	64	N	N	N	N	1	1	N
4/08/6-77	4/9/2008	2	2008	6	WJR08-727	F	2.271	60	N	N	N	N	1	1	C
4/08/6-78	4/9/2008	2	2008	6	WJR08-727	F	4.995	73	N	N	N	N	1	0	N
4/08/6-79	4/9/2008	2	2008	6	WJR08-727	F	5.668	83	N	N	N	N	1	1	N
4/08/6-80	4/9/2008	2	2008	6	WJR08-727	M	2.633	64	N	N	N	N	1	1	C

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SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
4/08/6-81	4/9/2008	2	2008	6	WJR08-727	F	2.478	73	N	N	N	N	1	1	C
4/08/6-82	4/9/2008	2	2008	6	WJR08-727	F	2.785	63	N	N	N	N	1	1	C
4/08/6-83	4/9/2008	2	2008	6	WJR08-727	M	3.327	65	N	N	L	T	1	1	O
4/08/6-84	4/9/2008	2	2008	6	WJR08-727	M	2.485	65	N	N	N	N	1	1	N
7/08/1-70	7/16/2008	2	2008	1	WJR08-818	M	1.972	64	N	N	N	N	1	1	C
7/08/1-71	7/16/2008	2	2008	1	WJR08-818	M	1.983	63	N	N	N	N	1	1	N
7/08/1-72	7/16/2008	2	2008	1	WJR08-818	F	2.342	65	N	N	N	N	0	0	N
7/08/1-73	7/16/2008	2	2008	1	WJR08-818	M	2.088	62	N	N	N	N	2	1	C
7/08/1-74	7/16/2008	2	2008	1	WJR08-818	F	2.484	69	N	N	N	N	1	0	N
7/08/1-75	7/16/2008	2	2008	1	WJR08-818	F	2.085	65	N	N	N	N	0	1	CP
7/08/1-76	7/16/2008	2	2008	1	WJR08-818	M	2.164	64	N	N	N	N	1	1	C
7/08/1-77	7/16/2008	2	2008	1	WJR08-818	F	2.480	66	N	N	N	N	1	1	N
7/08/1-78	7/16/2008	2	2008	1	WJR08-818	F	3.345	75	N	N	N	N	1	0	N
7/08/1-79	7/16/2008	2	2008	1	WJR08-818	M	1.883	64	N	N	N	N	1	1	N
7/08/1-80	7/16/2008	2	2008	1	WJR08-818	F	2.147	67	N	N	N	N	1	1	N
7/08/1-81	7/16/2008	2	2008	1	WJR08-818	F	1.869	62	N	N	N	N	0	0	N
7/08/1-82	7/16/2008	2	2008	1	WJR08-818	M	3.499	72	N	N	N	N	1	1	C
7/08/1-83	7/16/2008	2	2008	1	WJR08-818	F	3.051	71	N	N	N	N	1	1	CP
7/08/1-84	7/16/2008	2	2008	1	WJR08-818	F	2.011	68	N	N	N	N	1	1	N
7/08/1-85	7/16/2008	2	2008	1	WJR08-818	F	2.553	69	N	N	N	N	1	1	N
7/08/1-86	7/16/2008	2	2008	1	WJR08-818	F	1.904	63	N	N	N	N	1	1	N
7/08/1-87	7/16/2008	2	2008	1	WJR08-818	F	1.626	59	N	N	N	N	1	1	C
7/08/1-88	7/16/2008	2	2008	1	WJR08-818	F	2.634	69	N	N	N	N	1	1	CP
7/08/1-89	7/16/2008	2	2008	1	WJR08-818	M	1.873	64	N	N	N	N	1	1	P
7/08/1-90	7/16/2008	2	2008	1	WJR08-818	F	2.399	64	N	N	N	N	0	0	C
7/08/1-91	7/16/2008	2	2008	1	WJR08-818	M	2.280	66	N	N	N	N	1	1	N
7/08/1-92	7/16/2008	2	2008	1	WJR08-818	F	2.364	67	N	N	N	N	0	0	N
7/08/1-93	7/16/2008	2	2008	1	WJR08-818	M	1.989	62	N	N	N	N	1	1	C
7/08/1-94	7/16/2008	2	2008	1	WJR08-818	F	2.231	65	N	N	N	N	1	1	F
7/08/1-95	7/16/2008	2	2008	1	WJR08-818	F	2.449	64	N	N	N	N	1	1	N
7/08/1-96	7/16/2008	2	2008	1	WJR08-818	M	2.297	66	N	N	N	N	1	1	N
7/08/1-97	7/16/2008	2	2008	1	WJR08-818	F	1.852	68	N	N	N	N	1	1	N
7/08/1-98	7/16/2008	2	2008	1	WJR08-818	M	1.999	63	N	N	N	N	1	1	N
7/08/1-99	7/16/2008	2	2008	1	WJR08-818	M	2.420	66	N	N	N	N	2	1	N
7/08/2-70	7/15/2008	2	2008	2	WJR08-817	F	2.330	67	N	N	N	N	1	1	FCP
7/08/2-71	7/15/2008	2	2008	2	WJR08-817	F	2.243	65	N	N	N	N	1	1	C
7/08/2-72	7/15/2008	2	2008	2	WJR08-817	M	1.994	62	N	N	N	N	1	1	C
7/08/2-73	7/15/2008	2	2008	2	WJR08-817	F	2.069	65	N	N	N	N	1	1	C
7/08/2-74	7/15/2008	2	2008	2	WJR08-817	M	2.256	65	N	N	N	N	1	1	N
7/08/2-75	7/15/2008	2	2008	2	WJR08-817	F	2.815	70	N	N	N	N	1	1	C
7/08/2-76	7/15/2008	2	2008	2	WJR08-817	M	2.762	65	N	N	N	N	1	1	C
7/08/2-77	7/15/2008	2	2008	2	WJR08-817	F	2.589	65	N	N	N	N	0	0	N
7/08/2-78	7/15/2008	2	2008	2	WJR08-817	F	2.119	63	N	N	N	N	0	1	C
7/08/2-79	7/15/2008	2	2008	2	WJR08-817	F	2.054	62	N	N	N	N	1	1	FP
7/08/2-80	7/15/2008	2	2008	2	WJR08-817	M	2.231	66	N	N	N	N	1	1	C

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SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
7/08/2-81	7/15/2008	2	2008	2	WJR08-817	F	2.346	65	N	N	N	N	1	1	C
7/08/2-82	7/15/2008	2	2008	2	WJR08-817	M	2.311	63	N	N	N	N	1	1	C
7/08/2-83	7/15/2008	2	2008	2	WJR08-817	M	1.873	62	N	N	N	N	1	1	CP
7/08/2-84	7/15/2008	2	2008	2	WJR08-817	M	1.946	59	N	N	N	N	1	1	CP
7/08/2-85	7/15/2008	2	2008	2	WJR08-817	F	1.783	58	N	N	N	N	1	1	C
7/08/2-86	7/15/2008	2	2008	2	WJR08-817	M	2.823	68	N	N	N	N	1	1	C
7/08/2-87	7/15/2008	2	2008	2	WJR08-817	M	2.404	64	N	N	N	N	1	1	CP
7/08/2-88	7/15/2008	2	2008	2	WJR08-817	F	2.175	62	N	N	N	N	1	1	C
7/08/2-89	7/15/2008	2	2008	2	WJR08-817	F	2.375	64	N	N	N	N	1	1	CP
7/08/2-90	7/15/2008	2	2008	2	WJR08-817	F	2.852	71	N	N	N	N	0	0	C
7/08/2-91	7/15/2008	2	2008	2	WJR08-817	M	1.880	63	N	N	N	N	1	1	FC
7/08/2-92	7/15/2008	2	2008	2	WJR08-817	F	2.391	66	N	N	N	N	0	0	C
7/08/2-93	7/15/2008	2	2008	2	WJR08-817	F	2.504	68	N	N	N	N	1	1	C
7/08/2-94	7/15/2008	2	2008	2	WJR08-817	M	2.049	63	N	N	N	N	2	1	C
7/08/2-95	7/15/2008	2	2008	2	WJR08-817	F	1.889	61	N	N	N	N	1	0	C
7/08/3-70	7/14/2008	2	2008	3	WJR08-816	F	3.385	71	N	N	N	N	0	0	C
7/08/3-71	7/14/2008	2	2008	3	WJR08-816	F	3.077	68	N	N	N	N	1	1	C
7/08/3-72	7/14/2008	2	2008	3	WJR08-816	F	2.737	69	N	N	N	N	1	1	C
7/08/3-73	7/14/2008	2	2008	3	WJR08-816	F	6.037	85	N	N	N	N	1	1	N
7/08/3-74	7/14/2008	2	2008	3	WJR08-816	F	1.343	56	N	N	N	N	1	1	CP
7/08/3-75	7/14/2008	2	2008	3	WJR08-816	F	1.898	57	N	N	N	N	1	1	CP
7/08/4-70	7/10/2008	2	2008	4	WJR08-815	F	2.579	69	N	N	N	OT	1	1	C
7/08/4-71	7/10/2008	2	2008	4	WJR08-815	F	2.021	62	N	N	N	N	0	1	C
7/08/4-72	7/10/2008	2	2008	4	WJR08-815	M	2.634	71	N	N	N	N	1	1	N
7/08/4-73	7/10/2008	2	2008	4	WJR08-815	F	3.093	72	N	N	N	N	1	1	C
7/08/4-74	7/10/2008	2	2008	4	WJR08-815	M	1.860	65	N	N	N	P	1	1	N
7/08/4-75	7/10/2008	2	2008	4	WJR08-815	M	2.629	69	N	N	N	N	1	1	CP
7/08/4-76	7/10/2008	2	2008	4	WJR08-815	F	2.114	66	N	N	N	N	1	1	C
7/08/4-77	7/10/2008	2	2008	4	WJR08-815	F	4.284	79	N	N	N	N	1	1	C
7/08/4-78	7/10/2008	2	2008	4	WJR08-815	I	0.417	35	N	N	N	N	1	1	CP
7/08/4-79	7/10/2008	2	2008	4	WJR08-815	M	2.411	66	N	N	N	N	1	1	C
7/08/4-80	7/10/2008	2	2008	4	WJR08-815	I	0.288	33	N	N	N	N	1	1	C
7/08/4-81	7/10/2008	2	2008	4	WJR08-815	F	4.973	83	N	N	N	N	1	1	CM
7/08/4-82	7/10/2008	2	2008	4	WJR08-815	F	2.153	67	N	N	N	N	1	1	C
7/08/4-83	7/10/2008	2	2008	4	WJR08-815	F	2.534	68	N	N	N	N	1	1	C

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Date Collected	Sample Year	Year	Site Number	Collector ID	GENDER	Weight (g)	Total Length (mm)	Left Eye	Right Eye	Head	Body Surface	Right Opercule	Left Opercule	Left Gill
7/08/4-84	7/10/2008	2	2008	4	WJR08-815	M	3.036	68	N	N	N	N	1	1	C
7/08/4-85	7/10/2008	2	2008	4	WJR08-815	M	2.169	65	N	N	N	N	1	1	C
7/08/4-86	7/10/2008	2	2008	4	WJR08-815	I	0.322	33	N	N	N	N	1	1	C
7/08/4-87	7/10/2008	2	2008	4	WJR08-815	I	0.249	32	N	N	N	N	1	1	C
7/08/4-88	7/10/2008	2	2008	4	WJR08-815	I	0.326	34	N	N	N	N	1	1	CP
7/08/4-89	7/10/2008	2	2008	4	WJR08-815	I	0.271	32	N	N	N	N	1	1	CP
7/08/5-70	7/9/2008	2	2008	5	WJR08-814	I	0.560	40	N	N	N	N	0	0	P
7/08/5-71	7/9/2008	2	2008	5	WJR08-814	I	0.556	38	N	N	N	N	0	0	N
7/08/5-72	7/9/2008	2	2008	5	WJR08-814	I	0.381	35	N	N	N	N	1	1	C
7/08/5-73	7/9/2008	2	2008	5	WJR08-814	I	0.364	34	N	N	N	N	0	0	N
7/08/5-74	7/9/2008	2	2008	5	WJR08-814	I	0.497	38	N	N	N	N	1	1	C
7/08/5-75	7/9/2008	2	2008	5	WJR08-814	I	0.468	36	N	N	N	N	1	1	CP
7/08/5-76	7/9/2008	2	2008	5	WJR08-814	I	0.362	33	N	N	N	N	1	1	CP
7/08/5-77	7/9/2008	2	2008	5	WJR08-814	I	0.428	35	N	N	N	N	1	1	C
7/08/5-78	7/9/2008	2	2008	5	WJR08-814	I	0.330	34	N	N	N	N	1	1	C
7/08/6-70	7/8/2008	2	2008	6	WJR08-813	I	0.782	41	N	N	N	N	1	1	P
7/08/6-71	7/8/2008	2	2008	6	WJR08-813	I	0.470	35	N	N	N	N	0	0	N
7/08/6-72	7/8/2008	2	2008	6	WJR08-813	I	1.024	50	N	N	N	N	1	1	N
7/08/6-73	7/8/2008	2	2008	6	WJR08-813	I	0.859	44	N	N	N	N	1	1	CP
7/08/6-74	7/8/2008	2	2008	6	WJR08-813	I	0.605	43	N	N	N	N	1	1	C
7/08/6-75	7/8/2008	2	2008	6	WJR08-813	I	0.488	37	N	N	N	N	0	0	N
7/08/6-76	7/8/2008	2	2008	6	WJR08-813	I	0.726	45	N	N	N	L	0	0	P
7/08/6-77	7/8/2008	2	2008	6	WJR08-813	I	0.599	41	N	N	N	N	1	1	P
7/08/6-78	7/8/2008	2	2008	6	WJR08-813	I	0.688	40	N	N	N	N	1	1	C
7/08/6-79	7/8/2008	2	2008	6	WJR08-813	I	0.502	38	N	N	N	N	1	1	CP
7/08/6-80	7/8/2008	2	2008	6	WJR08-813	I	0.701	42	N	N	N	N	1	1	C
7/08/6-81	7/8/2008	2	2008	6	WJR08-813	I	0.556	39	N	N	N	N	0	0	C
7/08/6-82	7/8/2008	2	2008	6	WJR08-813	I	0.510	40	N	N	N	N	2	2	CP
7/08/6-83	7/8/2008	2	2008	6	WJR08-813	I	0.627	40	N	N	N	N	1	1	CM
7/08/6-84	7/8/2008	2	2008	6	WJR08-813	I	0.550	37	N	N	N	N	1	1	C
7/08/6-85	7/8/2008	2	2008	6	WJR08-813	I	0.733	43	N	N	N	N	1	1	C
7/08/6-86	7/8/2008	2	2008	6	WJR08-813	I	0.785	44	N	N	N	N	1	1	C
7/08/6-87	7/8/2008	2	2008	6	WJR08-813	I	0.617	40	N	N	N	N	1	1	CP
7/08/6-88	7/8/2008	2	2008	6	WJR08-813	I	0.574	39	N	N	N	N	0	0	N
7/08/6-89	7/8/2008	2	2008	6	WJR08-813	I	0.742	44	N	N	N	N	1	1	C
7/08/6-90	7/8/2008	2	2008	6	WJR08-813	I	0.827	45	N	N	N	N	1	1	C
7/08/6-91	7/8/2008	2	2008	6	WJR08-813	I	0.636	41	N	N	N	N	1	1	C
7/08/6-92	7/8/2008	2	2008	6	WJR08-813	I	0.507	37	N	N	N	N	1	1	CP
7/08/6-93	7/8/2008	2	2008	6	WJR08-813	I	0.604	41	N	N	N	N	1	1	CP
7/08/6-94	7/8/2008	2	2008	6	WJR08-813	I	0.444	35	N	N	N	N	1	1	C
7/08/6-95	7/8/2008	2	2008	6	WJR08-813	I	1.133	49	N	N	N	N	1	1	C
7/08/6-96	7/8/2008	2	2008	6	WJR08-813	I	1.367	53	N	N	N	N	1	1	N
7/08/6-97	7/8/2008	2	2008	6	WJR08-813	I	0.850	46	N	N	N	N	1	1	P
7/08/6-98	7/8/2008	2	2008	6	WJR08-813	I	0.550	39	N	N	N	N	1	1	C
7/08/6-99	7/8/2008	2	2008	6	WJR08-813	I	0.705	42	N	N	N	N	0	0	C

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
100-(((1/3)*1(	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
7/06/1-71	N	N	N	N	N	N	NORMAL	FULL	OTHER	RED ENLG
7/06/1-72	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED GRAN
7/06/1-73	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/06/1-74	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED ENLG
7/06/1-75	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED ENLG
7/06/1-76	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED ENLG
7/06/1-77	N	N	N	N	N	N	NORMAL	PART FULL	OTHER	RED
7/06/1-78	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED ENLG
7/06/1-79	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED ENLG
7/06/1-80	FP	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED ENLG
7/06/1-81	FMP	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/06/1-82	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED ENLG
7/06/1-83	N	N	N	N	N	N	NORMAL	FULL	OTHER	RED
7/06/1-84	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED ENLG
7/06/1-85	N	H	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/1-86	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/06/1-87	N	N	N	N	N	N	NORMAL	FULL	YELLOW	OTHER
7/06/1-88	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED ENLG
7/06/1-89	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/06/1-90	P	N	N	N	N	N	NORMAL	PART FULL	YELLOW	OTHER
7/06/1-91	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/06/1-92	N	N	N	N	N	N	NORMAL	PART FULL	DARK GREEN	ENLG
7/06/1-93	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/06/1-94	N	N	N	N	N	N	TAN	FULL	DARK GREEN	RED
7/06/1-95	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/06/1-96	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/06/1-97	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/06/1-98	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/06/1-99	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/06/2-70	N	N	N	N	N	N	GEN DIS	EMPTY	NA	RED
7/06/2-71	N	N	N	N	N	N	TAN	EMPTY	NA	RED ENLG
7/06/2-72	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/06/2-73	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/06/2-74	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/2-75	N	H	N	N	N	N	TAN	PART FULL	YELLOW	RED
7/06/2-76	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/06/2-77	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/2-78	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/06/2-79	C P	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/06/2-80	N	N	N	N	N	OT	TAN	PART FULL	LIGHT GREEN	RED ENLG
7/06/2-81	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
7/06/2-82	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/06/2-83	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/06/2-84	P	N	N	N	N	N	TAN	PART FULL	DARK GREEN	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
7/06/2-85	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED ENLG
7/06/2-86	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED GRAN
7/06/2-87	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
7/06/2-88	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/06/2-89	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED ENLG
7/06/2-90	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/2-91	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED ENLG
7/06/2-92	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/06/2-93	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED ENLG
7/06/2-94	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/2-95	N	N	N	N	OT	N	NORMAL	EMPTY	NA	RED ENLG
7/06/2-96	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	GRAN OT
7/06/2-97	N	N	N	H	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/2-98	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED ENLG
7/06/2-99	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/06/3-70	N	N	N	N	F	N	TAN	PART FULL	YELLOW	RED
7/06/3-71	N	N	N	N	N	N	TAN	EMPTY	NA	ENLG
7/06/3-72	FPP	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/06/3-73	OT	N	F	N	F	N	TAN	NA	NA	RED
7/06/3-74	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED ENLG
7/06/3-75	FP	N	N	N	F OT	F	TAN	PART FULL	YELLOW	RED GRAN
7/06/3-76	N	HF OT	N	N	N	N	TAN	PART FULL	YELLOW	R G E
7/06/3-77	N	N	N	N	N	S H OT	NORMAL	EMPTY	NA	RED ENLG
7/06/3-78	P	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/06/3-79	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED OT
7/06/3-80	N	N	N	N	N	OT	TAN	FULL	LIGHT GREEN	RED ENLG
7/06/4-70	F OT	N	N	N	N	N	TAN	PART FULL	YELLOW	GRAN OT
7/06/4-71	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/4-72	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/4-73	N	N	N	H OT	N	H OT	TAN	FULL	YELLOW	RED
7/06/4-74	N	N	N	N	N	N	TAN	NA	NA	RED
7/06/4-75	N	N	N	N	H OT	H OT	TAN	EMPTY	NA	RED
7/06/4-76	P OT	N	N	N	N	F	TAN	FULL	YELLOW	RED
7/06/4-77	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/06/4-78	N	N	N	N	F	N	TAN	PART FULL	LIGHT GREEN	RED
7/06/4-79	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
7/06/4-80	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/4-81	F	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/06/4-82	N	N	N	N	N	N	TAN	NA	NA	RED
7/06/4-83	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/4-84	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/4-85	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/4-86	F	N	N	N	OT	N	TAN	FULL	LIGHT GREEN	RED
7/06/4-87	FP	N	N	N	N	N	TAN	FULL	YELLOW	RED GRAN
7/06/4-88	N	N	N	H OT	F	N	TAN	FULL	DARK GREEN	RED OT

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
7/06/4-89	P	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/4-90	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	GRAN
7/06/4-91	F OT	N	N	N	N	N	TAN	FULL	LIGHT GREEN	OTHER
7/06/4-92	N	N	N	N	F	F	NORMAL	EMPTY	NA	RED
7/06/4-93	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/4-94	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED GRAN
7/06/4-95	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/4-96	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/4-97	FP	N	N	N	N	N		PART FULL	LIGHT GREEN	RED GRAN
7/06/4-98	FP	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED ENLG
7/06/4-99	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/5-70	N	N	N	N	H OT	N	TAN	PART FULL	YELLOW	RED
7/06/5-71	N	N	N	N	S	N	TAN	FULL	LIGHT GREEN	RED
7/06/5-72	N	N	N	N	N	N	TAN	EMPTY	NA	RED
7/06/5-73	N	N	N	N	N	N	TAN	EMPTY	NA	RED
7/06/5-74	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/06/5-75	N	N	N	N	N	N	TAN	NA	NA	RED
7/06/5-76	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
7/06/5-77	N	N	N	N	N	F	TAN	FULL	YELLOW	RED
7/06/5-78	P	N	N	N	N	H	GEN DIS	EMPTY	NA	ENLG
7/06/5-79	M	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED ENLG
7/06/5-80	N	H	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/06/5-81	FP	N	OT	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/06/5-82	N	N	N	N	N	OT	NORMAL	FULL	LIGHT GREEN	RED OT
7/06/5-83	N	N	N	H	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/5-84	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/5-85	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/06/5-86	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/06/5-87	N	N	N	N	OT	N	NORMAL	NA	NA	RED
7/06/5-88	N	N	N	N	N	N	GEN DIS	FULL	LIGHT GREEN	RED
7/06/5-89	FM	N	N	N	N	N	NORMAL	FULL	YELLOW	ENLG
7/06/5-90	P	N	N	N	OT	N	TAN	FULL	LIGHT GREEN	RED
7/06/5-91	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/5-92	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/06/5-93	N	N	N	N	OT	N	GEN DIS	FULL	LIGHT GREEN	RED ENLG
7/06/5-94	F	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/5-95	F	N	N	OT	N	N	TAN	PART FULL	YELLOW	RED
7/06/5-96	P	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/06/5-97	OT	N	N	N	F	N	NORMAL	FULL	YELLOW	RED ENLG
7/06/5-98	OT	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED
7/06/5-99	N	N	N	N	N	H	NORMAL	NA	NA	RED ENLG
7/06/6-70	F	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/06/6-71	C	N	N	N	H OT	N	TAN	FULL	YELLOW	RED
7/06/6-72	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/06/6-73	N	N	N	N	N	N	TAN	EMPTY	NA	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
7/06/6-74	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	
7/06/6-75	N	N	N	N	N	N	TAN	EMPTY	NA	RED
7/06/6-76	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/6-77	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/06/6-78	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED ENLG
7/06/6-79	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
7/06/6-80	N	N	N	N	F	N	TAN	FULL	YELLOW	RED
7/06/6-81	N	N	N	N	N	OT	NORMAL	PART FULL	YELLOW	RED
7/06/6-82	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
7/06/6-83	FP	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/6-84	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/06/6-85	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/6-86	N	N	N	N	N	N	TAN	FULL	YELLOW	OTHER
7/06/6-87	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
7/06/6-88	N	N	N	F	N	N	NORMAL	PART FULL	YELLOW	RED
7/06/6-89	F	N	N	N	F	N	TAN	FULL	YELLOW	RED
7/06/6-90	F	N	N	N	N	N	FOC DIS	FULL	YELLOW	RED
7/06/6-91	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/06/6-92	N	N	OT	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/06/6-93	N	F	N	N	N	N	TAN	EMPTY	NA	RED
7/06/6-94	N	N	N	N	N	N	TAN	PART FULL	YELLOW	ENLG
7/06/6-95	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/06/6-96	OT	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/1-70	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/1-71	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
10/06/1-72	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/1-73	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
10/06/1-74	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/1-75	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/06/1-76	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
10/06/1-77	P	N	N	N	N	N	TAN	EMPTY	NA	RED
10/06/1-78	P	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/1-79	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/1-80	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/1-81	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/1-82	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
10/06/1-83	CP	N	N	N	F	N	NORMAL	PART FULL	YELLOW	RED
10/06/1-84	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
10/06/1-85	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
10/06/1-86	P	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
10/06/1-87	N	N	N	N	S OT	N	NORMAL	PART FULL	LIGHT GREEN	RED
10/06/1-88	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
10/06/1-89	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
10/06/1-90	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/06/1-91	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
10/06/1-92	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/1-93	CP	N	N	N	OT	N	NORMAL	FULL	YELLOW	RED
10/06/1-94	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/1-95	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/1-96	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/2-70	N	N	N	N	F	N	GEN DIS	FULL	YELLOW	RED
10/06/2-71	C	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED
10/06/2-72	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/2-73	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/2-74	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/06/2-75	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/2-76	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/2-77	P	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
10/06/2-78	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/2-79	C	N	N	N	M	N	NORMAL	FULL	YELLOW	RED OT
10/06/2-80	N	N	N	N	H	N	NORMAL	FULL	LIGHT GREEN	RED
10/06/2-81	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/2-82	P	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
10/06/2-83	CP	N	N	N	HF	H	NORMAL	FULL	YELLOW	RED
10/06/2-84	CP	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED OT
10/06/2-85	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/2-86	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED OT
10/06/2-87	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/2-88	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
10/06/2-89	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/2-90	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/2-91	N	N	N	N	H	N	NORMAL	EMPTY	NA	RED ENLG
10/06/2-92	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/2-93	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
10/06/2-94	N	N	N	N	N	H	NORMAL	EMPTY	NA	RED
10/06/2-95	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
10/06/2-96	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/2-97	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
10/06/2-98	C	N	N	N	N	N	TAN	FULL	YELLOW	N/A
10/06/2-99	C	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
10/06/3-70	N	N	N	N	OT	N	NORMAL	FULL	YELLOW	RED
10/06/3-71	N	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
10/06/3-72	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
10/06/3-73	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED NOD
10/06/3-74	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/3-75	P	N	N	N	N	N	GEN DIS	EMPTY	NA	RED
10/06/3-76	N	N	H	N	OT	N	FOC DIS	PART FULL	LIGHT GREEN	RED ENLG
10/06/3-77	N	N	N	N	F	N	FOC DIS	FULL	YELLOW	RED
10/06/3-78	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED NOD
10/06/3-79	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
10/06/3-80	N	N	N	N	N	N	GEN DIS	PART FULL	YELLOW	RED NOD
10/06/3-81	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
10/06/3-82	P	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/3-83	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/06/3-84	N	N	N	N	OT	N	TAN	FULL	LIGHT GREEN	RED
10/06/3-85	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
10/06/3-86	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
10/06/3-87	N	N	N	N	S	N	NORMAL	FULL	YELLOW	RED
10/06/4-70	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/4-71	P	N	N	N	N	N	TAN	EMPTY	NA	RED
10/06/4-72	M	N	N	N	N	H	TAN	PART FULL	LIGHT GREEN	RED ENLG
10/06/4-73	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/4-74	N	N	N	N	N	N	TAN	EMPTY	NA	RED NOD
10/06/4-75	N	H	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
10/06/4-76	P	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED NOD
10/06/4-77	N	N	N	N	H	N	TAN	FULL	LIGHT GREEN	RED
10/06/4-78	CP	N	HM	N	N	N	TAN	FULL	YELLOW	RED
10/06/4-79	N	N	N	N	N	N	TAN	FULL	YELLOW	RED ENLG
10/06/4-80	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
10/06/4-81	N	N	N	N	N	M	NORMAL	EMPTY	NA	RED
10/06/4-82	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
10/06/4-83	P	N	N	N	N	N	TAN	FULL	YELLOW	RED NOD
10/06/4-84	P	N	N	N	N	H OT	GEN DIS	FULL	LIGHT GREEN	RED
10/06/4-85	P	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
10/06/4-86	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
10/06/4-87	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/4-88	P	N	N	N	H	N	NORMAL	EMPTY	NA	RED
10/06/4-89	P	N	N	F	F	N	TAN	PART FULL	YELLOW	RED NOD
10/06/4-90	N	N	N	N	OT	N	NORMAL	PART FULL	LIGHT GREEN	RED
10/06/4-91	M	N	N	N	H	N	TAN	FULL	LIGHT GREEN	RED
10/06/4-92	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/06/4-93	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/4-94	N	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
10/06/4-95	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
10/06/4-96	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
10/06/4-97	N	N	N	N	F	F	TAN	FULL	LIGHT GREEN	RED
10/06/4-98	N	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED
10/06/4-99	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/5-70	N	N	N	N	N	N	TAN	FULL	YELLOW	NOD
10/06/5-71	P	N	N	N	N	N	TAN	FULL	YELLOW	NOD
10/06/5-72	N	N	N	N	N	N	TAN OT	FULL	YELLOW	RED OT
10/06/5-73	P	N	N	N	F	OT	TAN	FULL	YELLOW	RED
10/06/5-74	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/5-75	N	N	N	N	OT	N	TAN	FULL	YELLOW	RED OT
10/06/5-76	N	N	N	N	OT	N	TAN	FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
10/06/5-77	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/5-78	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/06/5-79	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/5-80	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/5-81	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/5-82	N	N	N	N	N	N	NORMAL	FULL	YELLOW	NOD ENLG
10/06/5-83	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/06/5-84	N	N	N	N	N	N	TAN	FULL	YELLOW	RED NOD
10/06/5-85	N	N	N	N	N	OT	TAN	FULL	YELLOW	RED NOD
10/06/5-86	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
10/06/5-87	P	N	N	N	N	N	TAN	EMPTY	NA	RED
10/06/5-88	C	N	N	N	OT	OT	TAN	FULL	LIGHT GREEN	RED
10/06/5-89	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/5-90	N	N	N	N	N	N	TAN	EMPTY	NA	GRAN
10/06/5-91	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/06/5-92	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/06/5-93	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/06/5-94	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/06/5-95	P	N	N	N	N	N	NORMAL	FULL	YELLOW	RED NOD
10/06/5-96	P	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
1/07/2-70	C	N	N	N	N	N	NORMAL	FULL	OTHER	RED ENLG
1/07/2-71	N	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
1/07/2-72	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/2-73	N	N	N	N	N	N	NORMAL	PART FULL	OTHER	RED
1/07/2-74	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/2-75	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/2-76	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/2-77	CP	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/2-78	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/2-79	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/2-80	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/2-81	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/2-82	N	N	N	N	N	N	NORMAL	PART FULL	OTHER	RED
1/07/2-83	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/2-84	P	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/2-85	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/2-86	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/3-70	N	N	N	N	F	N	NORMAL	EMPTY	NA	NOD
1/07/3-71	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/3-72	N	N	N	N	N	N	NORMAL	FULL	OTHER	RED ENLG
1/07/3-73	N	N	N	N	H	N	TAN	EMPTY	NA	RED
1/07/3-74	P	N	N	N	N	N	NORMAL	FULL	OTHER	RED
1/07/3-75	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
1/07/3-76	C	N	N	N	N	N	NORMAL	PART FULL	OTHER	RED
1/07/3-77	C	N	N	N	N	N	TAN	FULL	OTHER	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
1/07/3-78	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
1/07/3-79	N	N	N	N	F	F	TAN	EMPTY	NA	RED
1/07/3-80	N	F	N	N	F	N	NORMAL	EMPTY	NA	RED
1/07/3-81	C	N	N	N	N	OT	TAN	EMPTY	NA	RED
1/07/3-82	P	N	N	N	N	N	TAN	EMPTY	NA	RED
1/07/3-83	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/07/3-84	N	N	N	N	S	N	NORMAL	EMPTY	NA	RED ENLG
1/07/3-85	N	N	N	N	M	N	NORMAL	FULL	OTHER	RED NOD
1/07/3-86	P	N	N	N	N	N	NORMAL	PART FULL	OTHER	RED
1/07/3-87	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/3-88	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/3-89	N	N	N	N	N	F	NORMAL	FULL	OTHER	RED
1/07/3-90	N	N	N	N	N	N	NORMAL	PART FULL	OTHER	RED
1/07/3-91	N	N	N	H	N	N	NORMAL	PART FULL	OTHER	RED
1/07/3-92	P	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/3-93	N	N	N	N	N	N	NORMAL	FULL	OTHER	RED
1/07/3-94	N	N	N	N	N	N	NORMAL	FULL	OTHER	RED
1/07/3-95	N	N	N	N	N	N	NORMAL	PART FULL	OTHER	RED
1/07/3-96	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/3-97	C	N	N	N	N	N	NORMAL	FULL	OTHER	RED
1/07/3-98	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/3-99	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/4-70	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/4-71	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED NOD
1/07/4-72	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED NOD
1/07/4-73	C	N	N	N	N	F	NORMAL	FULL	OTHER	RED
1/07/4-74	N	N	N	N	OT	N	NORMAL	EMPTY	NA	RED NOD
1/07/4-75	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED NOD
1/07/4-76	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED GRAN
1/07/4-77	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/4-78	C	N	N	N	M	N	NORMAL	FULL	YELLOW	RED NOD
1/07/4-79	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/4-80	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED NOD
1/07/4-81	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED NOD
1/07/4-82	C	N	N	N	N	N	NORMAL	FULL	OTHER	RED NOD
1/07/4-83	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED NOD
1/07/4-84	C	N	N	N	F	N	NORMAL	EMPTY	NA	RED
1/07/4-85	N	OT	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/4-86	N	OT	N	N	N	N	TAN	EMPTY	NA	RED
1/07/4-87	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/4-88	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/4-89	N	N	N	N	N	H	NORMAL	PART FULL	YELLOW	RED
1/07/4-90	CP	N	N	N	F	N	NORMAL	EMPTY	NA	RED
1/07/4-91	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/4-92	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
1/07/4-93	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/4-94	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/4-95	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/4-96	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/4-97	N	N	N	N	OT	N	NORMAL	FULL	YELLOW	RED ENLG
1/07/4-98	C	N	N	N	S	N	NORMAL	FULL	YELLOW	RED ENLG
1/07/4-99	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/5-70	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/5-71	C	N	OT	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/5-72	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/5-73	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
1/07/5-74	CP	N	N	N	N	N	TAN	PART FULL	OTHER	RED
1/07/5-75	C	N	N	N	N	N	NORMAL	FULL	OTHER	RED
1/07/5-76	CP	N	N	N	H OT	N	TAN	EMPTY	NA	RED
1/07/5-77	C	N	N	N	N	N	NORMAL	EMPTY	NA	NOD ENLG
1/07/5-78	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/5-79	N	N	N	N	N	N	TAN	FULL	OTHER	RED
1/07/5-80	C	N	N	N	N	N	TAN	EMPTY	NA	RED
1/07/5-81	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/07/5-82	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/07/5-83	CP	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/5-84	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/07/5-85	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/5-86	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/5-87	FCP	N	N	N	N	N	TAN	FULL	OTHER	RED
1/07/5-88	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/5-89	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/5-90	CP	N	N	N	F	N	TAN	EMPTY	NA	RED
1/07/5-91	CP	N	N	N	N	N	TAN	EMPTY	NA	RED
1/07/5-92	C	N	N	N	S	N	NORMAL	EMPTY	NA	RED
1/07/5-93	C	N	N	N	N	N	NORMAL	PART FULL	OTHER	RED
1/07/5-94	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/5-95	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/6-70	N	N	N	N	N	OT	TAN	FULL	YELLOW	RED
1/07/6-71	P	N	N	N	N	N	TAN	PART FULL	OTHER	RED
1/07/6-72	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/6-73	C	N	N	N	N	N	TAN	FULL	OTHER	RED
1/07/6-74	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/07/6-75	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/6-76	N	N	N	N	N	N	TAN	PART FULL	OTHER	RED
1/07/6-77	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/6-78	C	N	N	N	N	OT	TAN	FULL	OTHER	RED
1/07/6-79	C	N	N	N	N	H	TAN	FULL	YELLOW	RED
1/07/6-80	CP	N	N	N	N	H OT	TAN	FULL	YELLOW	RED
1/07/6-81	N	N	N	N	N	N	TAN	FULL	OTHER	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
1/07/6-82	N	N	N	N	N	N	TAN	EMPTY	NA	RED NOD
1/07/6-83	CP	OT	N	N	N	N	TAN	EMPTY	NA	RED
1/07/6-84	N	N	N	N	N	N	TAN	FULL	OTHER	RED
1/07/6-85	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/6-86	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED NOD
1/07/6-87	C	N	N	N	N	N	TAN	FULL	OTHER	RED NOD
1/07/6-88	N	N	OT	N	N	N	TAN	FULL	YELLOW	RED
1/07/6-89	N	N	N	N	N	N	TAN	FULL	OTHER	RED NOD
1/07/6-90	N	N	N	N	N	N	NORMAL	PART FULL	OTHER	RED
1/07/6-91	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED NOD
1/07/6-92	P	N	N	N	N	N	TAN	FULL	OTHER	RED
1/07/6-93	N	N	N	N	N	N	TAN	FULL	YELLOW	RED NOD
1/07/6-94	FP	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/6-95	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/07/6-96	P	N	N	OT	N	N	TAN	FULL	YELLOW	RED NOD
1/07/6-97	P	N	N	N	N	OT	NORMAL	PART FULL	YELLOW	RED
1/07/6-98	CP	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/07/6-99	P	N	N	N	N	N	NORMAL	FULL	OTHER	RED
4/07/1-70	N	N	N	N	N	N	GEN DIS	EMPTY	NA	RED
4/07/1-71	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/1-72	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/07/1-73	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/1-74	N	N	N	N	N	N	TAN	EMPTY	NA	RED
4/07/1-75	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/1-76	CM	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/1-77	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/1-78	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/1-79	N	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED
4/07/1-80	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/1-81	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/1-82	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/07/1-83	CP	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
4/07/1-84	CM	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/2-70	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
4/07/2-71	C	N	N	N	F	F	NORMAL	PART FULL	YELLOW	RED
4/07/2-72	C	N	N	F	N	N	GEN DIS	EMPTY	NA	RED ENLG
4/07/2-73	C	N	N	N	F	N	NORMAL	PART FULL	YELLOW	RED
4/07/2-74	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/07/2-75	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/07/2-76	N	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED
4/07/2-77	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/2-78	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/2-79	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/2-80	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
4/07/2-81	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
4/07/2-82	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/2-83	N	N	N	N	N	F	GEN DIS	EMPTY	NA	RED
4/07/2-84	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/07/2-85	C	N	N	N	M	N	NORMAL	EMPTY	NA	RED
4/07/2-86	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/2-87	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/2-88	P	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/2-89	CP	N	N	N	F	N	NORMAL	PART FULL	YELLOW	RED
4/07/2-90	C	N	N	N	F	N	GEN DIS	EMPTY	NA	RED
4/07/2-91	N	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED
4/07/2-92	C	N	N	N	N	N	NORMAL	FULL	YELLOW	NOD
4/07/2-93	C	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
4/07/2-94	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/2-95	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/2-96	N	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED ENLG
4/07/2-97	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/2-98	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/2-99	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
4/07/3-70	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/3-71	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/3-72	CP	N	N	OT	N	N	TAN	PART FULL	YELLOW	RED
4/07/3-73	C	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED
4/07/3-74	C	N	N	N	MF	N	NORMAL	PART FULL	YELLOW	RED
4/07/3-75	CP	N	N	N	N	F OT	TAN	PART FULL	YELLOW	RED NOD
4/07/3-76	C	N	N	N	N	N	GEN DIS	FULL	OTHER	RED NOD
4/07/3-77	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/3-78	C	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
4/07/3-79	CP	N	N	N	F	N	NORMAL	EMPTY	NA	RED
4/07/3-80	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/3-81	C	N	N	N	F	N	NORMAL	EMPTY	NA	RED
4/07/3-82	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/3-83	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/3-84	N	N	N	F	F	F	GEN DIS	PART FULL	YELLOW	RED
4/07/3-85	CP	N	N	N	N	N	GEN DIS	EMPTY	NA	RED
4/07/3-86	C	N	N	N	F	N	GEN DIS	FULL	YELLOW	RED
4/07/3-87	CP	OT	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/3-88	C	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
4/07/4-70	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/4-71	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED NOD
4/07/4-72	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/07/4-73	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/4-74	MP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/4-75	C	N	N	N	N	OT	NORMAL	FULL	YELLOW	RED
4/07/4-76	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/07/4-77	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED NOD

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
4/07/4-78	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED NOD
4/07/4-79	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	NOD
4/07/4-80	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED ENLG
4/07/4-81	C	N	N	N	N	OT	NORMAL	FULL	YELLOW	RED
4/07/4-82	C	N	N	N	N	OT	NORMAL	FULL	YELLOW	NOD ENLG
4/07/4-83	N	N	N	N	S	N	GEN DIS	FULL	YELLOW	RED NOD
4/07/5-70	CP	N	N	N	N	N	GEN DIS	PART FULL	YELLOW	OTHER
4/07/5-71	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-72	P	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-73	P	N	N	N	F	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-74	CM	N	N	N	F	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-75	N	N	N	N	N	N	GEN DIS	FULL	DARK GREEN	RED NOD
4/07/5-76	C	N	N	N	F	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-77	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-78	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-79	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-80	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-81	P	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/07/5-82	P	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
4/07/5-83	P	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/07/5-84	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/07/1-70	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/07/1-71	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/1-72	C	N	N	N	F	N	TAN	FULL	YELLOW	RED
10/07/1-73	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/1-74	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/1-75	N	N	N	N	N	F	NORMAL	PART FULL	YELLOW	RED
10/07/1-76	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/1-77	C	N	N	N	N	N	NORMAL	FULL	OTHER	RED
10/07/1-78	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/07/1-79	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/07/1-80	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/1-81	N	N	N	N	N	N	TAN	NA	NA	RED
10/07/1-82	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
10/07/1-83	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/07/1-84	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/1-85	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/1-86	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/1-87	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/1-88	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/1-89	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/1-90	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/1-91	C	N	N	N	N	N	NORMAL	NA	NA	RED
10/07/1-92	C	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
10/07/1-93	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
10/07/1-94	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/2-70	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/2-71	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/2-72	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/2-73	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
10/07/2-74	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/07/2-75	C	N	N	N	N	N	TAN	EMPTY	NA	RED
10/07/2-76	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/2-77	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/2-78	C	N	N	N	F	N	TAN	PART FULL	YELLOW	RED
10/07/2-79	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/2-80	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/2-81	C	N	N	N	S	N	TAN	FULL	YELLOW	NOD ENLG
10/07/2-82	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/2-83	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/2-84	N	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
10/07/2-85	C	N	N	N	M	F	TAN	FULL	YELLOW	RED
10/07/2-86	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/2-87	CP	N	N	F	F	N	NORMAL	FULL	YELLOW	RED
10/07/2-88	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/2-89	C	N	N	N	N	N	TAN	NA	NA	RED
10/07/3-70	C	N	N	N	N	N	TAN	EMPTY	NA	RED
10/07/3-71	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/3-72	C	N	N	N	F	N	NORMAL	NA	NA	N/A
10/07/3-73	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/07/3-74	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
10/07/3-75	C	N	N	OT	N	N	NORMAL	EMPTY	NA	RED ENLG
10/07/3-76	CP	N	N	N	F	F	NORMAL	FULL	YELLOW	NOD ENLG
10/07/3-77	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED NOD
10/07/3-78	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	NOD ENLG
10/07/3-79	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	N/A
10/07/3-80	FC	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
10/07/3-81	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/3-82	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
10/07/3-83	C	N	N	N	S	N	NORMAL	FULL	YELLOW	RED
10/07/3-84	C	N	N	N	N	N	NORMAL	NA	NA	RED
10/07/4-70	C	N	N	N	N	N	GEN DIS	PART FULL	YELLOW	RED
10/07/4-71	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/07/4-72	C	N	N	N	N	OT	TAN	FULL	YELLOW	RED NOD
10/07/4-73	C	N	N	N	N	N	TAN	PART FULL	YELLOW	NOD ENLG
10/07/4-74	C	N	N	N	N	N	TAN	NA	NA	RED
10/07/4-75	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/07/4-76	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/4-77	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
10/07/4-78	CM	N	N	N	N	N	NORMAL	FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
10/07/4-79	C	N	N	N	N	OT	TAN	FULL	YELLOW	RED NOD
10/07/4-80	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/4-81	C	N	N	F	F	N	NORMAL	PART FULL	YELLOW	RED
10/07/4-82	C	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED
10/07/4-83	CP	N	N	F	F	F	NORMAL	PART FULL	YELLOW	RED ENLG
10/07/4-84	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/4-85	C	N	N	N	N	N	TAN	FULL	YELLOW	RED ENLG
10/07/4-86	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
10/07/4-87	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/4-88	C	N	N	N	N	N	GEN DIS	PART FULL	YELLOW	RED
10/07/4-89	FCP	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/07/4-90	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	NOD ENLG
10/07/4-91	C	N	N	N	N	N	TAN	FULL	YELLOW	RED ENLG
10/07/4-92	C	N	N	N	N	N	TAN	FULL	YELLOW	NOD ENLG
10/07/4-93	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
10/07/4-94	C	N	N	N	N	N	NORMAL	NA	NA	RED
10/07/5-70	CP	N	N	N	N	N	TAN	EMPTY	NA	RED ENLG
10/07/5-71	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/5-72	FP	OT	N	N	N	N	TAN	EMPTY	NA	RED ENLG
10/07/5-73	C	N	N	N	N	N	NORMAL	NA	NA	RED
10/07/5-74	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/5-75	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
10/07/5-76	C	N	N	N	N	N	NORMAL	NA	NA	RED
10/07/5-77	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/5-78	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
10/07/5-79	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
10/07/5-80	P	N	H	H	HF	H	TAN	EMPTY	NA	RED
10/07/5-81	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
10/07/5-82	N	N	N	N	S OT	N	NORMAL	PART FULL	YELLOW	RED
10/07/5-83	N	N	N	N	OT	N	GEN DIS	EMPTY	NA	RED
10/07/5-84	C	N	OT	N	N	N	TAN	PART FULL	YELLOW	RED
10/07/5-85	N	N	N	N	N	N	NORMAL	NA	NA	RED
10/07/5-86	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
10/07/5-87	C	N	N	N	N	N	GEN DIS	EMPTY	NA	RED
10/07/5-88	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/07/5-89	N	N	N	N	F	N	TAN	PART FULL	YELLOW	RED
10/07/6-70	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
10/07/6-71	N	N	N	N	N	N	TAN	NA	NA	RED
10/07/6-72	P	N	N	N	N	N	TAN	FULL	OTHER	RED
10/07/6-73	FP	F	N	N	N	OT	TAN	EMPTY	NA	RED
10/07/6-74	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/07/6-75	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/07/6-76	N	N	N	N	N	F	NORMAL	FULL	YELLOW	GRAN
10/07/6-77	N	N	N	N	N	N	TAN	NA	NA	RED
10/07/6-78	N	N	N	N	N	N	NORMAL	EMPTY	NA	NOD ENLG

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
10/07/6-79	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
10/07/6-80	P	N	N	N	N	N	TAN	EMPTY	NA	RED
10/07/6-81	N	N	N	N	N	N	TAN	EMPTY	NA	RED
10/07/6-82	CP	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-70	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-71	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-72	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/1-73	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-74	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-75	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-76	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-77	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-78	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-79	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-80	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-81	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-82	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-83	N	N	N	N	F	N	TAN	EMPTY	NA	RED
1/08/1-84	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/1-85	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/1-86	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-87	MP	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-88	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-89	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-90	P	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-91	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-92	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-93	MP	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-94	MP	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-95	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/1-96	N	N	N	N	F	N	TAN	EMPTY	NA	RED
1/08/1-97	MP	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-98	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/1-99	P	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-70	OT	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/2-71	OT	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/2-72	OT	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/2-73	OT	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/2-74	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
1/08/2-75	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/2-76	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-77	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/2-78	N	H	H	N	H	N	NORMAL	FULL	YELLOW	RED
1/08/2-79	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/2-80	N	N	N	N	N	N	TAN	FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
1/08/2-81	N	N	N	N	H	N	TAN	FULL	YELLOW	RED
1/08/2-82	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-83	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/2-84	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-85	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-86	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-87	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/2-88	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-89	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/2-90	N	N	N	H	N	H	TAN	EMPTY	NA	RED
1/08/2-91	P	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-92	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/2-93	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/2-94	N	N	N	N	H	N	TAN	FULL	YELLOW	RED
1/08/2-95	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-96	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-97	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/2-98	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/2-99	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-70	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/3-71	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/3-72	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/3-73	N	N	N	N	F	N	TAN	FULL	YELLOW	RED
1/08/3-74	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/3-75	N	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
1/08/3-76	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/3-77	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-78	N	N	N	N	N	N	TAN	EMPTY	NA	RED GRAN
1/08/3-79	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/3-80	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-81	N	N	N	N	F	N	TAN	EMPTY	NA	RED
1/08/3-82	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/3-83	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/3-84	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-85	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/3-86	N	N	N	N	F	N	TAN	PART FULL	YELLOW	RED
1/08/3-87	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/3-88	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-89	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-90	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-91	N	N	F	N	N	N	TAN	EMPTY	NA	GRAN
1/08/3-92	N	N	N	OT	N	N	TAN	EMPTY	NA	RED
1/08/3-93	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/3-94	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-95	MP	N	N	N	N	N	TAN	PART FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
1/08/3-96	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-97	MP	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/3-98	MP	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/3-99	MP	N	N	N	N	N	TAN	FULL	YELLOW	GRAN
1/08/4-70	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-71	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-72	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-73	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-74	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/4-75	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/4-76	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-77	N	N	N	N	F	N	TAN	PART FULL	YELLOW	RED
1/08/4-78	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-79	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-80	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-81	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-82	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/4-83	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/4-84	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-85	N	N	N	N	N	N	GEN DIS	FULL	YELLOW	RED
1/08/4-86	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/4-87	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/4-88	N	N	N	N	M	N	TAN	FULL	YELLOW	RED
1/08/4-89	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/4-90	N	N	N	N	N	N	TAN	EMPTY	NA	GRAN
1/08/4-91	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/4-92	N	N	N	N	N	N	GEN DIS	FULL	YELLOW	GRAN
1/08/4-93	N	N	OT	N	N	N	TAN	FULL	YELLOW	GRAN
1/08/4-94	N	N	N	N	N	N	TAN	FULL	YELLOW	GRAN
1/08/4-95	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/4-96	N	N	N	N	S	N	TAN	PART FULL	YELLOW	RED
1/08/4-97	N	N	N	N	N	N	TAN	EMPTY	NA	RED GRAN
1/08/4-98	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/4-99	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-70	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-71	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-72	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-73	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/5-74	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-75	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-76	N	H	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-77	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-78	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/5-79	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/5-80	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
1/08/5-81	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/5-82	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
1/08/5-83	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/5-84	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-85	N	N	OT	N	N	N	TAN	EMPTY	NA	RED
1/08/5-86	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-87	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-88	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/5-89	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/5-90	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
1/08/5-91	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-92	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-93	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-94	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/5-95	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/5-96	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/5-97	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/5-98	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/5-99	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/6-70	N	N	N	N	F	N	NORMAL	FULL	LIGHT GREEN	RED
1/08/6-71	P	N	N	N	F	N	TAN	FULL	YELLOW	RED
1/08/6-72	P	N	N	N	F	N	TAN	EMPTY	NA	RED
1/08/6-73	N	N	N	N	F	N	TAN	EMPTY	NA	RED
1/08/6-74	N	N	N	N	N	OT	TAN	FULL	YELLOW	RED
1/08/6-75	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/6-76	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/6-77	P	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
1/08/6-78	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/6-79	N	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
1/08/6-80	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/6-81	N	OT	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/6-82	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/6-83	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/6-84	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
1/08/6-85	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
1/08/6-86	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/6-87	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/6-88	N	N	S	N	N	N	TAN	EMPTY	NA	OTHER
1/08/6-89	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/6-90	N	S	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/6-91	N	OT	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
1/08/6-92	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
1/08/6-93	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/6-94	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/6-95	N	OT	OT	OT	N	N	TAN	FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
1/08/6-96	N	N	N	N	N	N	TAN	EMPTY	NA	RED
1/08/6-97	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/6-98	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
1/08/6-99	N	N	N	N	N	OT	TAN	EMPTY	NA	RED
4/08/1-70	P	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/1-71	C	N	N	N	F	N	NORMAL	PART FULL	YELLOW	RED
4/08/1-72	C	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/1-73	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-74	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/1-75	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-76	CP	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/1-77	CP	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-78	CP	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/1-79	N	F	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-80	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/1-81	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/08/1-82	FCP	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-83	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-84	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-85	C	N	N	N	F	N	TAN	PART FULL	YELLOW	RED
4/08/1-86	CP	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-87	C	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/1-88	N	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/1-89	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-90	CP	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-91	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
4/08/1-92	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-93	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/1-94	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/1-95	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/1-96	P	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-97	CP	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-98	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/1-99	C	N	N	N	N	N	TAN	FULL	YELLOW	RED ENLG
4/08/2-70	C	N	N	N	N	S	NORMAL	EMPTY	NA	RED
4/08/2-71	C	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/2-72	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/2-73	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/2-74	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/2-75	C	N	N	N	FM	N	TAN	EMPTY	NA	RED
4/08/2-76	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/08/2-77	P	N	N	N	F	N	TAN	PART FULL	YELLOW	RED
4/08/2-78	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/2-79	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/2-80	CP	N	N	N	F	N	TAN	FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
4/08/2-81	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/08/2-82	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/08/2-83	P	N	N	N	F	N	TAN	PART FULL	YELLOW	RED
4/08/2-84	P	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/2-85	C	N	N	N	N	N	TAN	FULL	YELLOW	RED ENLG
4/08/2-86	CP	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/2-87	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/2-88	P	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/2-89	P	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/2-90	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/2-91	CP	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/2-92	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/2-93	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED ENLG
4/08/2-94	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/2-95	C	N	N	N	F	N	TAN	FULL	YELLOW	RED
4/08/2-96	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/2-97	C	N	N	N	M	N	TAN	PART FULL	YELLOW	RED
4/08/2-98	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/2-99	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/3-70	P	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/3-71	C	H	H	H	N	N	TAN	PART FULL	YELLOW	RED
4/08/3-72	CP	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/3-73	CP	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/3-74	C	N	N	N	S	N	TAN	EMPTY	NA	RED
4/08/3-75	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/3-76	C	N	N	N	S	N	TAN	FULL	YELLOW	RED
4/08/3-77	C	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/3-78	C	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/3-79	C	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/3-80	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/3-81	C	N	N	N	N	N	TAN	EMPTY	NA	N/A
4/08/3-82	C	H	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/08/3-83	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/3-84	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/3-85	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/3-86	C	H	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/3-87	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/3-88	C	H	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/3-89	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
4/08/3-90	C	N	N	N	F	N	TAN	FULL	YELLOW	RED
4/08/3-91	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/3-92	C	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/3-93	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/3-94	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/3-95	C	N	N	N	N	N	TAN	PART FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
4/08/3-96	C	N	N	N	N	N	TAN	FULL	YELLOW	RED ENLG
4/08/3-97	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/08/3-98	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/3-99	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/4-70	C	N	N	N	F	N	NORMAL	EMPTY	NA	RED
4/08/4-71	C	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/4-72	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-73	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/4-74	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-75	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-76	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-77	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-78	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-79	C	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
4/08/4-80	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-81	CP	N	N	N	OT	N	NORMAL	FULL	YELLOW	RED
4/08/4-82	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/4-83	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/4-84	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-85	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-86	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-87	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-88	N	N	N	N	OT	N	TAN	FULL	YELLOW	RED
4/08/4-89	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-90	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-91	P	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/4-92	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/4-93	P	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-94	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-95	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/08/4-96	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/4-97	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/08/4-98	CP	N	N	N	N	N	TAN	EMPTY	NA	RED
4/08/4-99	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/6-70	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
4/08/6-71	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/6-72	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/6-73	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/6-74	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/6-75	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
4/08/6-76	N	N	N	N	N	OT	NORMAL	EMPTY	NA	RED
4/08/6-77	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/6-78	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
4/08/6-79	F	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/6-80	C	N	N	N	N	N	TAN	FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
4/08/6-81	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/6-82	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
4/08/6-83	PP	N	N	N	N	N	GEN DIS	EMPTY	NA	GRAN NOD
4/08/6-84	N	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/08/1-70	C	N	N	N	M	N	NORMAL	FULL	YELLOW	RED
7/08/1-71	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/1-72	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/1-73	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED NOD
7/08/1-74	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED NOD
7/08/1-75	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED ENLG
7/08/1-76	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/1-77	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/1-78	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED NOD
7/08/1-79	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/1-80	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/1-81	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/1-82	C	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/08/1-83	CP	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/08/1-84	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/1-85	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/1-86	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/08/1-87	C	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/1-88	CP	N	N	N	F	N	TAN	FULL	YELLOW	RED
7/08/1-89	P	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/08/1-90	C	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/1-91	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/08/1-92	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/08/1-93	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
7/08/1-94	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/08/1-95	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/1-96	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/1-97	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/1-98	N	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/1-99	N	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/08/2-70	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/2-71	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/2-72	C	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/08/2-73	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/2-74	N	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/2-75	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/2-76	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/2-77	N	N	N	N	N	N	TAN	FULL	YELLOW	NOD
7/08/2-78	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/2-79	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/2-80	C	N	N	N	N	N	TAN	FULL	YELLOW	RED NOD

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
7/08/2-81	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED ENLG
7/08/2-82	C	N	N	N	N	N	TAN	EMPTY	NA	RED
7/08/2-83	CP	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/08/2-84	CP	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/2-85	C	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/08/2-86	C	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/2-87	CP	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
7/08/2-88	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/2-89	CP	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED ENLG
7/08/2-90	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/2-91	FC	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
7/08/2-92	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
7/08/2-93	C	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/2-94	C	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/08/2-95	C	N	N	N	N	N	NORMAL	FULL	LIGHT GREEN	RED
7/08/3-70	C	N	N	N	F	N	NORMAL	FULL	YELLOW	RED
7/08/3-71	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/3-72	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/3-73	N	N	N	N	F	N	NORMAL	PART FULL	YELLOW	RED
7/08/3-74	CP	N	N	N	N	N	TAN	EMPTY	NA	NOD GRAN
7/08/3-75	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/4-70	C	N	N	N	F	N	NORMAL	EMPTY	NA	RED
7/08/4-71	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-72	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-73	C	N	N	N	H	N	NORMAL	EMPTY	NA	RED
7/08/4-74	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-75	CP	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
7/08/4-76	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-77	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-78	CP	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-79	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-80	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-81	CM	N	N	N	N	N	NORMAL	EMPTY	NA	RED ENLG
7/08/4-82	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED
7/08/4-83	C	N	N	N	N	N	NORMAL	PART FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Right Gill	Pectoral Fin	Pelvic Fin	Anal Fin	Caudal Fin	Dorsal Fin	Liver	Bile FULL	Bile COLOR	SPLEEN
7/08/4-84	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-85	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-86	C	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/4-87	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/4-88	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/4-89	CP	N	N	N	N	N	NORMAL	PART FULL	LIGHT GREEN	RED
7/08/5-70	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/5-71	N	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/5-72	C	N	N	N	N	N	TAN	FULL	YELLOW	RED ENLG
7/08/5-73	N	N	N	N	N	N	TAN	EMPTY	NA	RED
7/08/5-74	C	N	N	N	N	N	TAN	EMPTY	NA	RED
7/08/5-75	CP	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/5-76	CP	N	N	N	N	N	NORMAL	FULL	YELLOW	RED
7/08/5-77	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/5-78	C	N	N	N	N	N	NORMAL	EMPTY	NA	RED
7/08/6-70	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-71	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-72	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-73	CP	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-74	C	N	N	OT	F	N	NORMAL	FULL	YELLOW	RED
7/08/6-75	N	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-76	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-77	P	N	N	N	F	N	TAN	EMPTY	NA	RED
7/08/6-78	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-79	CP	N	N	N	F	N	TAN	EMPTY	NA	RED
7/08/6-80	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-81	C	N	N	N	F	N	TAN	FULL	YELLOW	RED
7/08/6-82	CP	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/08/6-83	CM	N	N	N	N	N	TAN	EMPTY	NA	RED
7/08/6-84	FP	H	N	N	F	N	TAN	FULL	YELLOW	RED
7/08/6-85	C	N	N	H OT	N	N	TAN	EMPTY	NA	RED
7/08/6-86	C	N	N	N	N	N	TAN	EMPTY	NA	RED
7/08/6-87	CP	N	N	N	N	N	TAN	EMPTY	NA	RED
7/08/6-88	N	N	N	N	N	N	TAN	PART FULL	YELLOW	RED
7/08/6-89	C	N	N	N	N	N	TAN	PART FULL	LIGHT GREEN	RED
7/08/6-90	C	N	N	OT	N	N	TAN	PART FULL	LIGHT GREEN	RED ENLG
7/08/6-91	C	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED ENLG
7/08/6-92	CP	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/08/6-93	CP	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED ENLG
7/08/6-94	C	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/08/6-95	C	N	N	N	N	N	TAN	FULL	LIGHT GREEN	RED
7/08/6-96	N	N	N	N	FH	N	TAN	FULL	YELLOW	RED
7/08/6-97	P	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-98	C	N	N	N	N	N	TAN	FULL	YELLOW	RED
7/08/6-99	C	N	N	N	N	N	TAN	FULL	YELLOW	RED

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meseteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
100-(((1/3)*1(	0.004	I	SLIGHT	N	0	0	0	0	0	30	0	0	0.12	67	40
7/06/1-71	0.017	F	SLIGHT	S	0	0	20	0	0	0	30	30	0.54	0	80
7/06/1-72	0.001	I	50	N	0	0	30	0	0	0	0	0	0.04	67	30
7/06/1-73	0.002	F	SLIGHT	N	0	0	0	30	0	0	0	0	0.06	67	30
7/06/1-74	0.011	F	SLIGHT	N	0	30	30	0	0	0	30	0	0.34	67	90
7/06/1-75	0.009	I	50	N	0	0	30	0	0	0	30	0	0.26	67	60
7/06/1-76	0.007	F	NO	N	0	0	10	30	0	0	30	0	0.26	67	70
7/06/1-77	0.001	I	NO	N	0	0	0	0	0	0	0	0	0.06	0	0
7/06/1-78	0.015	M	SLIGHT	N	0	0	0	0	0	30	30	0	0.46	67	60
7/06/1-79	0.013	I	SLIGHT	N	0	0	20	30	0	30	30	0	0.42	67	110
7/06/1-80	0.015	I	50	N	0	0	0	30	0	0	30	0	0.51	33	60
7/06/1-81	0.002	I	SLIGHT	N	0	0	0	30	0	0	0	0	0.07	100	30
7/06/1-82	0.009	F	SLIGHT	N	0	0	0	30	0	0	30	0	0.35	33	60
7/06/1-83	0.001	I	50	N	0	0	0	0	0	0	0	0	0.03	0	0
7/06/1-84	0.013	I	SLIGHT	S	0	0	0	0	0	0	30	30	0.45	33	60
7/06/1-85	0.001	F	>50	N	0	30	0	0	10	30	0	0	0.04	67	70
7/06/1-86	0.008	F	50	N	0	0	0	0	0	30	0	0	0.21	33	30
7/06/1-87	0.002	F	>50	N	0	0	0	0	0	0	30	0	0.06	67	30
7/06/1-88	0.016	I	SLIGHT	N	0	0	0	0	0	0	30	0	0.53	33	30
7/06/1-89	0.002	F	SLIGHT	N	0	0	0	0	0	0	0	0	0.10	33	0
7/06/1-90		I	NO	N	0	0	10	30	0	0	30	0	0.00	67	70
7/06/1-91	0.001	M	NO	S	0	0	0	0	0	0	0	30	0.03	33	30
7/06/1-92	0.018	I	>50	N	0	0	0	0	0	0	30	0	0.68	0	30
7/06/1-93	0.002	I	>50	N	0	0	0	0	0	0	0	0	0.05	67	0
7/06/1-94	0.002	F	SLIGHT	N	0	0	0	0	0	30	0	0	0.08	0	30
7/06/1-95	0.002	F	NO	N	0	0	0	0	0	0	0	0	0.06	33	0
7/06/1-96	0.001	I	NO	N	0	0	0	0	0	0	0	0	0.05	67	0
7/06/1-97	0.002	I	NO	N	0	0	0	0	0	0	0	0	0.08	33	0
7/06/1-98	0.002	I	NO	N	0	0	20	0	0	0	0	0	0.07	100	20
7/06/1-99	0.001	M	NO	N	0	0	20	0	0	0	0	0	0.03	33	20
7/06/2-70	0.002	I	SLIGHT	N	0	0	10	0	0	30	0	0	0.05	100	40
7/06/2-71	0.006	I	SLIGHT	N	0	30	10	0	0	30	30	0	0.23	100	100
7/06/2-72	0.003	I	>50	N	0	0	10	0	0	30	0	0	0.09	33	40
7/06/2-73	0.002	I	>50	N	30	0	10	30	0	0	0	0	0.05	100	70
7/06/2-74	0.005	I	>50	N	0	30	0	0	0	30	0	0	0.15	33	60
7/06/2-75	0.002	I	50	S	0	0	0	0	10	30	0	30	0.07	67	70
7/06/2-76	0.002	I	>50	N	0	0	0	0	0	30	0	0	0.07	33	30
7/06/2-77	0.001	I	>50	N	0	30	10	0	0	30	0	0	0.03	33	70
7/06/2-78	0.002	I	SLIGHT	N	30	30	0	0	0	0	0	0	0.06	33	60
7/06/2-79	0.003	I	50	N	0	30	10	30	0	30	0	0	0.09	33	100
7/06/2-80	0.005	I	50	N	0	30	10	0	30	30	30	0	0.20	33	130
7/06/2-81	0.003	I	NO	S	0	0	0	30	0	30	0	30	0.11	67	90
7/06/2-82	0.004	I	NO	OT	0	30	0	0	0	30	0	30	0.10	33	90
7/06/2-83	0.002	I	SLIGHT	N	0	0	0	0	0	0	0	0	0.06	33	0
7/06/2-84	0.003	F	50	N	0	0	10	30	0	30	0	0	0.07	0	70

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
7/06/2-85	0.011	I	50	N	0	0	10	0	0	0	30	0	0.44	67	40
7/06/2-86	0.004	I	NO	N	0	0	10	0	0	30	0	0	0.16	67	40
7/06/2-87	0.01	I	NO	N	0	30	10	0	0	0	30	0	0.40	100	70
7/06/2-88	0.002	I	NO	N	0	0	10	0	0	0	0	0	0.07	67	10
7/06/2-89	0.003	I	NO	N	0	0	30	0	0	30	30	0	0.15	33	90
7/06/2-90	0.001	I	NO	N	0	30	10	0	0	30	0	0	0.04	67	70
7/06/2-91	0.018	I	NO	N	30	0	0	30	0	0	30	0	0.98	33	90
7/06/2-92	0.004	F	NO	N	0	0	10	0	0	0	0	0	0.10	33	10
7/06/2-93	0.012	I	50	N	0	0	10	0	0	0	30	0	0.36	33	40
7/06/2-94	0.002	I	SLIGHT	N	0	0	0	0	0	30	0	0	0.09	33	30
7/06/2-95	0.011	I	SLIGHT	N	0	30	10	0	30	0	30	0	0.32	100	100
7/06/2-96	0.004	I	>50	N	0	0	0	0	0	30	30	0	0.13	33	60
7/06/2-97	0.031	F	>50	N	0	30	0	0	10	30	0	0	0.67	33	70
7/06/2-98	0.011	I	NO	N	0	30	0	0	0	30	30	0	0.47	33	90
7/06/2-99	0.002	I	50	N	0	0	0	0	0	30	0	0	0.07	33	30
7/06/3-70	0.001	I	SLIGHT	N	0	0	10	0	10	30	0	0	0.02	67	50
7/06/3-71	0.007	I	50	N	0	0	20	30	0	30	30	0	0.28	100	110
7/06/3-72	0.007	F	NO	N	30	0	30	30	0	0	0	0	0.16	100	90
7/06/3-73	0.006	I	SLIGHT	N	0	0	10	30	10	30	0	0	0.16		80
7/06/3-74	0.009	I	SLIGHT	OT	0	0	10	0	0	30	30	30	0.42	67	100
7/06/3-75	0.006	I	50	N	0	0	10	30	30	30	0	0	0.23	67	100
7/06/3-76	0.018	F	SLIGHT	N	0	0	0	30	30	30	30	0	0.52	67	120
7/06/3-77	0.012	M	NO	N	0	30	10	0	30	0	30	0	0.35	100	100
7/06/3-78	0.003	F	NO	S	0	0	10	30	0	30	0	30	0.07	33	100
7/06/3-79	0.001	I	>50	N	0	30	10	0	0	30	30	0	0.03	33	100
7/06/3-80	0.009	I	SLIGHT	N	0	0	10	0	30	30	30	0	0.27	33	100
7/06/4-70	0.004	F	50	N	0	0	10	30	0	30	30	0	0.13	67	100
7/06/4-71	0.004	I	>50	N	0	0	0	0	0	30	0	0	0.13	67	30
7/06/4-72	0.002	F	50	N	0	0	0	30	0	30	0	0	0.09	67	60
7/06/4-73	0.002	F	50	N	0	30	0	0	30	30	0	0	0.06	67	90
7/06/4-74	0.002	F	>50	N	0	0	10	0	0	30	0	0	0.07		40
7/06/4-75	0.001	I	50	N	0	0	10	0	30	30	0	0	0.03	100	70
7/06/4-76	0.001	F	50	N	0	0	10	30	10	30	0	0	0.04	67	80
7/06/4-77	0.003	F	50	S	0	0	20	0	0	0	0	30	0.13	33	50
7/06/4-78	0.002	F	>50	N	0	0	10	0	10	30	0	0	0.07	33	50
7/06/4-79	0.003	F	SLIGHT	N	0	0	0	0	0	30	0	0	0.09	67	30
7/06/4-80	0.002	I	50	N	0	0	10	0	0	30	0	0	0.07	33	40
7/06/4-81	0.003	I	50	N	0	0	10	30	0	0	0	0	0.11	67	40
7/06/4-82	0.001	F	50	N	0	0	0	0	0	30	0	0	0.03		30
7/06/4-83	0.003	F	NO	OT	0	0	10	0	0	30	0	30	0.16	33	70
7/06/4-84	0.003	F	SLIGHT	N	0	0	10	0	0	30	0	0	0.11	67	40
7/06/4-85	0.002	F	>50	S	0	0	0	30	0	30	0	30	0.06	33	90
7/06/4-86	0.002	I	50	S	0	0	10	30	30	30	0	30	0.11	33	130
7/06/4-87	0.003	F	SLIGHT	N	0	30	10	30	0	30	0	0	0.15	67	100
7/06/4-88	0.001	I	NO	N	0	30	0	0	30	30	30	0	0.03	0	120

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
7/06/4-89	0.002	I	50	N	0	30	10	30	0	30	0	0	0.07	33	100
7/06/4-90	0.002	I	>50	N	0	0	0	0	0	30	0	0	0.07	33	30
7/06/4-91	0.002	I	50	S	0	0	10	30	0	30	30	30	0.07	33	130
7/06/4-92	<0.001	I	50	N	0	0	0	0	10	0	0	0		100	10
7/06/4-93	0.001	I	SLIGHT	N	0	0	10	0	0	30	0	0	0.06	33	40
7/06/4-94	0.001	I	SLIGHT	N	0	0	10	0	0	30	0	0	0.03	33	40
7/06/4-95	0.002	I	>50	S	0	0	10	0	0	30	0	30	0.08	33	70
7/06/4-96	0.001	I	50	N	0	0	10	0	0	30	0	0	0.04	33	40
7/06/4-97	0.002	I	50	N	0	0	10	30	0		0	0	0.06	33	40
7/06/4-98	0.006	I	>50	OT	0	30	10	30	0	30	30	30	0.24	33	160
7/06/4-99	0.003	I	>50	N	0	0	10	30	0	30	0	0	0.08	33	70
7/06/5-70	0.001	F	SLIGHT	N	0	0	10	0	30	30	0	0	0.04	67	70
7/06/5-71	0.001	F	50	N	0	0	10	0	30	30	0	0	0.04	33	70
7/06/5-72		F	NO	N	0	30	10	0	0	30	0	0	0.00	100	70
7/06/5-73	0.001	F	50	N	0	30	10	0	0	30	0	0	0.05	100	70
7/06/5-74	0.002	F	NO	N	0	0	10	0	0	0	0	0	0.08	67	10
7/06/5-75	0.003	F	NO	S	0	30	10	0	0	30	0	30	0.11		100
7/06/5-76	0.003	F	50	N	0	30	0	0	0	30	0	0	0.09	67	60
7/06/5-77	0.001	F	50	N	0	0	20	0	10	30	0	0	0.03	67	60
7/06/5-78	0.004	I	50	S	0	0	30	30	10	30	30	30	0.20	100	160
7/06/5-79	0.01	I	50	N	0	0	10	30	0	30	30	0	0.29	33	100
7/06/5-80	0.005	I	SLIGHT	N	0	0	10	0	10	0	0	0	0.13	33	20
7/06/5-81	0.001	F	NO	N	0	0	10	30	30	30	0	0	0.03	33	100
7/06/5-82	0.002	F	SLIGHT	N	0	30	10	0	30	0	30	0	0.06	33	100
7/06/5-83	0.003	I	SLIGHT	N	0	0	0	30	10	30	0	0	0.10	33	70
7/06/5-84	0.002	I	NO	N	0	30	0	0	0	30	0	0	0.06	67	60
7/06/5-85	0.002	I	NO	N	0	30	10	0	0	0	0	0	0.06	33	40
7/06/5-86	0.002	I	NO	N	0	0	10	0	0	0	0	0	0.06	67	10
7/06/5-87	0.002	I	NO	S	0	0	10	0	30	0	0	30	0.07		70
7/06/5-88	0.003	I	SLIGHT	S	0	0	20	0	0	30	0	30	0.11	33	80
7/06/5-89	0.007	I	NO	N	0	0	10	30	0	0	30	0	0.30	67	70
7/06/5-90	0.002	F	50	N	0	30	10	30	30	30	0	0	0.06	33	130
7/06/5-91	0.003	F	NO	N	0	30	10	0	0	30	0	0	0.13	67	70
7/06/5-92	0.002	F	SLIGHT	SM	0	30	10	0	0	0	0	30	0.05	33	70
7/06/5-93	0.009	F	50	N	0	0	10	30	30	30	30	0	0.29	33	130
7/06/5-94	0.002	I	50	N	0	0	10	30	0	30	0	0	0.07	33	70
7/06/5-95	0.002	I	50	N	0	0	10	30	30	30	0	0	0.05	67	100
7/06/5-96	0.004	I	SLIGHT	N	0	0	10	30	0	0	0	0	0.15	67	40
7/06/5-97	0.005	I	50	S	0	0	20	30	10	0	30	30	0.23	67	120
7/06/5-98	0.002	I	50	N	0	0	20	30	0	30	0	0	0.08	67	80
7/06/5-99	0.005	F	NO	N	0	30	20	30	10	0	30	0	0.20		120
7/06/6-70	0.006	I	SLIGHT	N	0	0	10	30	0	0	0	0	0.26	67	40
7/06/6-71	0.002	I	SLIGHT	N	0	0	10	30	30	30	0	0	0.08	67	100
7/06/6-72	0.004	I	SLIGHT	N	0	0	10	0	0	0	0	0	0.13	67	10
7/06/6-73	0.003	I	SLIGHT	N	0	0	10	0	0	30	0	0	0.09	100	40

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
7/06/6-74		I	SLIGHT	N	0	0	0	0	0	0		0	0.00	67	0
7/06/6-75	0.005	I	SLIGHT	N	0	0	10	0	0	30	0	0	0.23	100	40
7/06/6-76	0.004	I	SLIGHT	N	0	0	10	0	0	30	0	0	0.15	67	40
7/06/6-77	0.005	I	50	N	0	0	10	0	0	0	0	0	0.35	67	10
7/06/6-78	0.011	I	50	N	0	0	10	30	0	30	30	0	0.43	67	100
7/06/6-79	0.003	I	50	N	0	0	10	0	0	30	0	0	0.13	67	40
7/06/6-80	0.001	I	SLIGHT	N	30	0	10	0	10	30	0	0	0.05	67	80
7/06/6-81	0.001	I	SLIGHT	N	0	0	10	0	30	0	0	0	0.04	67	40
7/06/6-82	0.003	F	SLIGHT	N	0	0	10	0	0	30	0	0	0.10	67	40
7/06/6-83	0.003	F	50	N	0	30	20	30	0	30	0	0	0.12	67	110
7/06/6-84	0.004	F	NO	N	0	30	0	0	0	0	0	0	0.20	67	30
7/06/6-85	0.005	I	50	N	0	0	0	0	0	30	0	0	0.24	67	30
7/06/6-86	0.001	I	SLIGHT	N	0	0	0	0	0	30	30	0	0.05	67	60
7/06/6-87	0.002	I	>50	N	0	0	10	0	0	30	0	0	0.09	67	40
7/06/6-88	0.003	I	50	N	0	0	0	0	10	0	0	0	0.13	67	10
7/06/6-89	0.002	I	SLIGHT	N	0	30	10	30	10	30	0	0	0.13	67	110
7/06/6-90	0.004	F	SLIGHT	S	0	0	0	30	0	30	0	30	0.22	67	90
7/06/6-91	0.002	I	NO	N	0	30	10	30	0	30	0	0	0.08	67	100
7/06/6-92	0.001	F	50	N	0	0	10	0	30	30	0	0	0.07	33	70
7/06/6-93	0.003	I	SLIGHT	N	0	0	10	0	10	30	0	0	0.19	100	50
7/06/6-94	0.007	I	NO	N	0	0	10	0	0	30	30	0	0.35	67	70
7/06/6-95	0.001	I	SLIGHT	N	30	0	20	0	0	0	0	0	0.05	67	50
7/06/6-96	0.004	M	50	N	0	0	10	30	0	0	0	0	0.18	100	40
10/06/1-70	0.001	I	NO	N	0	0	20	0	0	0	0	0	0.07	100	20
10/06/1-71	0.003	M	COMP	N	0	0	0	0	0	0	0	0	0.14	33	0
10/06/1-72	0.003	F	NO	N	0	0	0	0	0	0	0	0	0.08		0
10/06/1-73	<0.001	I	NO	N	0	0	10	0	0	0	0	0		33	10
10/06/1-74	0.002	F	50	N	0	0	10	0	0	0	0	0	0.07	100	10
10/06/1-75	<0.001	I	SLIGHT	N	0	0	0	0	0	0	0	0		67	0
10/06/1-76	0.003	M	SLIGHT	N	0	0	0	0	0	0	30	0	0.18	67	30
10/06/1-77	<0.001	F	SLIGHT	N	0	0	0	30	0	30	0	0		100	60
10/06/1-78	0.003	F	NO	N	0	0	0	30	0	0	0	0	0.23	100	30
10/06/1-79	0.002	F	NO	N	0	30	0	0	0	0	0	0	0.08	67	30
10/06/1-80	0.002	M	COMP	N	0	0	10	0	0	0	0	0	0.12	100	10
10/06/1-81	0.002	F	NO	S	30	0	0	30	0	30	0	30	0.10	67	120
10/06/1-82	0.001	M	NO	N	0	0	0	0	0	0	0	0	0.07	33	0
10/06/1-83	<0.001	I	NO	N	0	0	0	30	10	0	0	0		67	40
10/06/1-84	<0.001	M	SLIGHT	N	0	0	0	0	0	0	0	0		33	0
10/06/1-85	0.002	I	NO	N	0	0	10	0	0	0	0	0	0.19	33	10
10/06/1-86	0.001	F	NO	N	0	0	10	30	0	0	0	0	0.05	33	40
10/06/1-87	0.003	F	NO	N	0	0	0	0	30	0	0	0	0.26	33	30
10/06/1-88	0.001	F	COMP	N	0	0	0	0	0	30	0	0	0.07	33	30
10/06/1-89	0.009	M	SLIGHT	N	0	0	0	0	0	0	30	0	0.68	67	30
10/06/1-90	0.002	F	NO	S	0	0	0	0	0	30	0	30	0.10	100	60
10/06/1-91	0.002	I	>50	N	0	0	0	0	0	0	0	0	0.15	100	0

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
10/06/1-92	0.001	I	NO	N	0	0	0	0	0	0	0	0	0.07	67	0
10/06/1-93	0.002	F	COMP	N	0	0	0	30	30	0	0	0	0.18	67	60
10/06/1-94	0.002	I	COMP	N	0	0	0	0	0	0	0	0	0.13	67	0
10/06/1-95	0.001	F	SLIGHT	N	0	0	0	0	0	0	0	0	0.06	67	0
10/06/1-96	0.001	I	NO	N	0	0	0	0	0	0	0	0	0.12	67	0
10/06/2-70	0.004	F	COMP	N	0	0	0	0	10	30	0	0	0.14	67	40
10/06/2-71	0.004	F	>50	N	0	0	0	30	0	30	0	0	0.11	67	60
10/06/2-72	0.004	M	NO	N	0	0	0	0	0	0	0	0	0.11	100	0
10/06/2-73	0.002	F	COMP	N	0	0	10	30	0	0	0	0	0.14	100	40
10/06/2-74	0.004	F	50	N	0	0	0	0	0	0	0	0	0.09	67	0
10/06/2-75	0.002	F	50	N	0	0	10	30	0	30	0	0	0.06	67	70
10/06/2-76	0.002	F	SLIGHT	N	0	0	0	0	0	0	0	0	0.17	67	0
10/06/2-77	0.005	M	>50 P	N	0	30	10	30	0	0	30	0	0.16	67	100
10/06/2-78	0.004	M	50	M	0	0	10	0	0	0	0	30	0.12	67	40
10/06/2-79	0.003	F	>50	N	0	0	10	30	20	0	30	0	0.07	67	90
10/06/2-80	0.003		NO P	N	0	0	10	0	10	0	0	0	0.07	33	20
10/06/2-81	0.001	F	NO	N	0	0	0	0	0	0	0	0	0.08	67	0
10/06/2-82	0.004	I	NO P	S	0	0	0	30	0	0	30	30	0.20	100	90
10/06/2-83	0.005	M	NO	N	0	0	0	30	20	0	0	0	0.12	67	50
10/06/2-84	0.002	M	SLIGHT	N	0	0	10	30	0	0	30	0	0.05	33	70
10/06/2-85	0.002	F	SLIGHT	N	0	0	0	0	0	0	0	0	0.15	67	0
10/06/2-86	0.002	I	NO	N	0	0	0	0	0	0	30	0	0.06	67	30
10/06/2-87	0.003	I	50 P	N	30	0	0	30	0	0	0	0	0.09	67	60
10/06/2-88	0.004	F	NO	N	30	30	0	0	0	30	0	0	0.11	33	90
10/06/2-89	0.005	F	50	N	0	0	0	0	0	0	0	0	0.10	67	0
10/06/2-90	0.002	F	SLIGHT	N	0	0	0	0	0	30	0	0	0.06	67	30
10/06/2-91	0.003	M	NO P	N	0	0	0	0	10	0	30	0	0.19	100	40
10/06/2-92	0.004	F	>50	N	0	0	0	0	0	0	0	0	0.11	100	0
10/06/2-93	0.003	M	NO	N	0	0	0	0	0	0	30	0	0.23	67	30
10/06/2-94	0.003	F	NO	N	0	0	0	0	10	0	0	0	0.09	100	10
10/06/2-95	0.002	M	NO P	N	0	30	0	0	0	0	0	0	0.07	33	30
10/06/2-96	0.001	I	NO	N	0	0	0	0	0	0	0	0	0.09	100	0
10/06/2-97	0.002	M	SLIGHT	N	0	0	10	30	0	0	0	0	0.13	33	40
10/06/2-98	N/A	I	NO	N	0	0	10	30	0	30		0		67	70
10/06/2-99	<0.001	M	NO P	N	0	0	10	30	0	30	0	0		33	70
10/06/3-70	0.005	F	SLIGHT	N	0	0	0	0	30	0	0	0	0.09	67	30
10/06/3-71	0.003	F	50	N	0	0	0	0	10	0	0	0	0.13	67	10
10/06/3-72	0.005	F	NO	SM	0	30	10	0	0	0	30	30	0.19	67	100
10/06/3-73	0.006	M	NO	N	0	0	0	0	0	0	30	0	0.12	33	30
10/06/3-74	0.002	F	NO	N	0	0	0	0	0	0	0	0	0.10	100	0
10/06/3-75	0.007	M	COMP	M	0	0	10	30	0	30	0	30	0.09	100	100
10/06/3-76	0.008	M	SLIGHT	N	0	0	10	0	30	30	30	0	0.17	33	100
10/06/3-77	0.003	M	SLIGHT	N	0	0	0	0	10	30	0	0	0.06	67	40
10/06/3-78	0.008	F	NO	N	0	0	10	0	0	0	30	0	0.15	33	40
10/06/3-79	0.003	F	SLIGHT P	N	0	0	0	0	0	0	0	0	0.12	67	0

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
10/06/3-80	0.005	M	50	N	0	0	0	0	0	30	30	0	0.12	67	60
10/06/3-81	0.003	M	COMP	N	0	30	10	0	0	30	0	0	0.10	33	70
10/06/3-82	0.005	M	NO P	N	0	30	0	30	0	0	0	0	0.11	67	60
10/06/3-83	0.005	F	SLIGHT	N	0	0	10	0	0	0	0	0	0.15	67	10
10/06/3-84	0.006	M	SLIGHT P	N	0	0	0	0	30	30	0	0	0.13	33	60
10/06/3-85	0.003	M	50 P	M	0	0	0	0	0	0	0	30	0.06	33	30
10/06/3-86	0.005	M	>50	S	0	0	10	0	0	0	0	30	0.10	33	40
10/06/3-87	0.006	F	SLIGHT	N	0	30	0	0	30	0	0	0	0.09	67	60
10/06/4-70	0.004	M	COMP P	OT	0	0	10	0	0	30	0	30	0.09	67	70
10/06/4-71	0.006	M	50 P	N	0	0	10	30	0	30	0	0	0.12	100	70
10/06/4-72	0.007	M	COMP	S	0	30	10	0	10	30	30	30	0.16	33	140
10/06/4-73	0.004	M	COMP	N	0	0	30	0	0	30	0	0	0.11	67	60
10/06/4-74	0.005	F	50 P	S	0	0	0	0	0	30	30	30	0.11	100	90
10/06/4-75	0.004	F	SLIGHT	N	0	30	10	0	10	0	0	0	0.09	33	50
10/06/4-76	0.004	M	50	N	0	0	0	30	0	30	30	0	0.10	33	90
10/06/4-77	0.005	F	50	N	0	0	0	0	10	30	0	0	0.11	33	40
10/06/4-78	0.002	M	>50 P	N	0	0	10	30	20	30	0	0	0.04	67	90
10/06/4-79	0.007	M	COMP	N	0	0	0	0	0	30	30	0	0.17	67	60
10/06/4-80	0.003	M	SLIGHT	N	0	0	0	0	0	30	0	0	0.08	33	30
10/06/4-81	0.002	F	NO	N	0	0	0	0	20	0	0	0	0.13	100	20
10/06/4-82	0.003	F	SLIGHT P	S	0	0	0	0	0	30	0	30	0.09	33	60
10/06/4-83	0.003	F	>50 P	N	0	0	0	30	0	30	30	0	0.06	67	90
10/06/4-84	0.005	F	>50	N	0	0	0	30	30	30	0	0	0.11	33	90
10/06/4-85	0.002	F	>50 P	N	0	0	10	30	0	30	0	0	0.05	67	70
10/06/4-86	0.003	M	NO	N	0	30	10	0	0	30	0	0	0.13	33	70
10/06/4-87	0.004	M	50 P	N	0	0	0	0	0	30	0	0	0.09	67	30
10/06/4-88	0.002	M	NO P	N	0	0	0	30	10	0	0	0	0.09	100	40
10/06/4-89	0.001	F	COMP P	N	0	0	0	30	10	30	30	0	0.02	67	100
10/06/4-90	0.004	F	NO P	N	0	0	10	0	30	0	0	0	0.10	33	40
10/06/4-91	0.003	F	SLIGHT P	N	0	0	0	30	10	30	0	0	0.06	33	70
10/06/4-92	0.003	F	>50	N	0	0	0	0	0	30	0	0	0.06	100	30
10/06/4-93	0.003	F	>50 P	SG	0	0	0	0	0	30	0	30	0.06	67	60
10/06/4-94	0.004	F	NO P	N	0	0	10	0	0	30	0	0	0.08	33	40
10/06/4-95	0.002	F	COMP	N	0	0	0	0	0	30	0	0	0.04	33	30
10/06/4-96	0.007	M	COMP P	N	0	30	0	0	0	30	0	0	0.13	33	60
10/06/4-97	0.005	M	50 P	M	0	0	0	0	10	30	0	30	0.10	33	70
10/06/4-98	0.005	F	COMP P	N	0	0	0	0	0	30	0	0	0.13	67	30
10/06/4-99	0.002	M	SLIGHT P	SG	0	0	0	0	0	30	0	30	0.05	67	60
10/06/5-70	0.004	I	COMP P	N	0	0	0	0	0	30	30	0	0.09	67	60
10/06/5-71	0.004	F	50	M	0	0	0	30	0	30	30	30	0.06	67	120
10/06/5-72	0.005	M	COMP P	N	0	30	0	0	0	30	30	0	0.11	67	90
10/06/5-73	0.003	F	>50 P	N	0	0	0	30	30	30	0	0	0.04	67	90
10/06/5-74	0.003	F	50	M	0	0	0	0	0	30	0	30	0.05	67	60
10/06/5-75	0.006	F	COMP	SM	0	0	10	0	30	30	30	30	0.10	67	130
10/06/5-76	0.003	F	SLIGHT P	S	0	0	10	0	30	30	0	30	0.05	67	100

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
10/06/5-77	0.003	F	COMP	N	0	30	10	0	0	30	0	0	0.10	67	70
10/06/5-78	0.002	F	>50 P	N	0	0	0	0	0	0	0	0	0.10	67	0
10/06/5-79	0.005	F	COMP P	N	0	0	0	0	0	30	0	0	0.09	67	30
10/06/5-80	0.003	M	COMP P	N	0	0	10	0	0	30	0	0	0.06	67	40
10/06/5-81	0.004	F	COMP	N	0	0	0	0	0	30	0	0	0.10	67	30
10/06/5-82	0.004	F	>50 P	N	0	0	0	0	0	0	30	0	0.16	67	30
10/06/5-83	0.001	F	NO P	S	0	0	0	0	0	30	0	30	0.05	100	60
10/06/5-84	0.002	F	50	N	0	0	0	0	0	30	30	0	0.10	67	60
10/06/5-85	0.006	F	50 P	OT	0	0	0	0	30	30	30	30	0.09	67	120
10/06/5-86	0.003	M	COMP P	SM	0	0	0	0	0	0	0	30	0.06	33	30
10/06/5-87	0.004	F	>50 P	N	0	0	10	30	0	30	0	0	0.07	100	70
10/06/5-88	0.005	F	COMP	M	0	0	10	30	30	30	0	30	0.08	33	130
10/06/5-89	0.005	F	50 P	N	0	0	0	0	0	30	0	0	0.11	67	30
10/06/5-90	0.002	F	NO P	S	0	0	0	0	0	0	0	30	0.06	100	30
10/06/5-91	0.001	I	NO	N	0	0	0	0	0	0	0	0	0.05	67	0
10/06/5-92	0.001	F	50 P	N	0	0	10	0	0	0	0	0	0.06	100	10
10/06/5-93	0.001	F	50	N	0	0	0	0	0	30	0	0	0.07	100	30
10/06/5-94	0.001	F	50	N	0	0	10	0	0	30	0	0	0.06	67	40
10/06/5-95	0.002	F	SLIGHT P	N	0	0	10	30	0	0	30	0	0.06	67	70
10/06/5-96	0.001	F	SLIGHT	N	0	0	10	30	0	30	0	0	0.06	33	70
1/07/2-70	0.012	M	NO	N	0	0	0	30	0	0	30	0	0.41	0	60
1/07/2-71	0.005	F	NO	N	0	30	0	0	10	0	0	0	0.12	67	40
1/07/2-72	0.004	F	NO	S	0	0	10	30	0	30	0	30	0.12	67	100
1/07/2-73	0.001	F	NO	N	0	0	10	0	0	0	0	0	0.04	0	10
1/07/2-74	0.001	M	NO	N	0	0	0	30	0	0	0	0	0.10	100	30
1/07/2-75	0.002	M	NO	N	0	0	0	0	0	0	0	0	0.07	67	0
1/07/2-76	0.003	F	NO	N	0	0	0	0	0	0	0	0	0.11	67	0
1/07/2-77	<0.001	M	NO	N	0	0	10	30	0	0	0	0		100	40
1/07/2-78	0.001	M	NO	N	0	0	0	0	0	0	0	0	0.03	100	0
1/07/2-79	0.001	F	50 P	N	0	0	0	30	0	0	0	0	0.04	67	30
1/07/2-80	<0.001	F	NO	N	0	0	0	30	0	0	0	0		100	30
1/07/2-81	<0.001	F	NO P	SG	0	0	0	30	0	0	0	30		67	60
1/07/2-82	0.002	F	NO	N	0	0	0	0	0	0	0	0	0.09	0	0
1/07/2-83	0.003	M	NO P	N	0	0	0	30	0	0	0	0	0.11	67	30
1/07/2-84	0.001	F	NO P	N	0	0	0	30	0	0	0	0	0.09	67	30
1/07/2-85	<0.001	M	NO	S	0	0	0	30	0	0	0	30		67	60
1/07/2-86	0.002	F	NO P	N	0	0	0	0	0	0	0	0	0.16	100	0
1/07/3-70	0.002	F	NO P	N	0	0	30	0	10	0	30	0	0.07	100	70
1/07/3-71	0.008	F	SLIGHT P	N	0	0	10	0	0	0	0	0	0.13	100	10
1/07/3-72	0.007	M	NO P	N	0	0	0	0	0	0	30	0	0.16	0	30
1/07/3-73	<0.001	F	NO	N	0	0	10	0	10	30	0	0		100	50
1/07/3-74	0.002	M	NO	N	0	0	0	30	0	0	0	0	0.06	0	30
1/07/3-75	0.007	F	NO	N	0	0	10	30	0	0	30	0	0.18	100	70
1/07/3-76	0.003	F	NO	S	30	0	0	30	0	0	0	30	0.06	0	90
1/07/3-77	0.005	F	NO	N	0	0	10	30	0	30	0	0	0.10	0	70

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
1/07/3-78	0.001	F	NO	N	0	0	10	30	0	0	0	0	0.05	67	40
1/07/3-79	0.002	M	NO	N	0	0	0	0	10	30	0	0	0.06	100	40
1/07/3-80	0.001	F	NO	N	0	0	10	0	10	0	0	0	0.03	100	20
1/07/3-81	0.005	M	NO P	N	0	0	10	30	30	30	0	0	0.09	100	100
1/07/3-82	0.003	M	NO	S	0	0	10	30	0	30	0	30	0.09	100	100
1/07/3-83	0.006	M	SLIGHT P	N	0	0	0	0	0	30	0	0	0.09	100	30
1/07/3-84	0.006	M	NO P	N	0	0	0	0	30	0	30	0	0.18	100	60
1/07/3-85	0.004	F	NO	N	0	0	10	30	20	0	30	0	0.12	0	90
1/07/3-86	0.003	M	NO	S	0	0	0	30	0	0	0	30	0.09	0	60
1/07/3-87	0.001	M	NO	N	0	0	10	30	0	0	0	0	0.06	100	40
1/07/3-88	0.003	M	NO	N	0	0	0	0	0	0	0	0	0.22	100	0
1/07/3-89	0.004	F	SLIGHT P	N	0	0	20	30	10	0	0	0	0.08	0	60
1/07/3-90	0.001	M	NO	N	0	0	0	0	0	0	0	0	0.03	0	0
1/07/3-91	0.003	F	NO	N	0	0	10	30	10	0	0	0	0.10	0	50
1/07/3-92	<0.001	M	NO	N	0	0	0	30	0	0	0	0		100	30
1/07/3-93	0.003	M	NO	N	0	0	0	0	0	0	0	0	0.06	0	0
1/07/3-94	<0.001	F	NO	N	0	0	0	0	0	0	0	0		0	0
1/07/3-95	0.001	F	NO	S	0	0	10	30	0	0	0	30	0.03	0	70
1/07/3-96	0.001	I	SLIGHT	N	0	0	10	0	0	0	0	0	0.04	100	10
1/07/3-97	0.002	M	NO P	N	0	30	0	30	0	0	0	0	0.05	0	60
1/07/3-98	0.002	F	NO	N	0	0	0	30	0	0	0	0	0.13	100	30
1/07/3-99	0.002	F	SLIGHT	N	0	0	0	0	0	0	0	0	0.12	100	0
1/07/4-70	0.003	M	50	N	0	30	0	30	0	0	0	0	0.07	67	60
1/07/4-71	0.005	F	SLIGHT P	N	0	0	10	0	0	0	30	0	0.10	67	40
1/07/4-72	0.003	M	SLIGHT P	SM	0	0	10	0	0	30	30	30	0.08	67	100
1/07/4-73	0.003	M	NO P	S	0	0	0	30	10	0	0	30	0.08	0	70
1/07/4-74	0.006	F	NO P	N	0	0	0	0	30	0	30	0	0.10	100	60
1/07/4-75	0.002	M	SLIGHT	S	0	0	0	30	0	0	30	30	0.09	100	90
1/07/4-76	0.002	M	NO	SM	0	0	0	0	0	0	0	30	0.06	67	30
1/07/4-77	0.005	F	COMP	S	0	0	10	0	0	0	0	30	0.10	67	40
1/07/4-78	0.004	M	SLIGHT P	SM	0	0	10	30	20	0	30	30	0.08	67	120
1/07/4-79	0.005	M	NO P	SM	0	0	10	30	0	0	0	30	0.12	67	70
1/07/4-80	0.004	F	COMP	SM	0	0	10	30	0	0	30	30	0.13	67	100
1/07/4-81	0.003	M	NO P	N	0	0	0	30	0	0	30	0	0.08	100	60
1/07/4-82	0.003	F	50 P	S	0	0	0	30	0	0	30	30	0.05	0	90
1/07/4-83	0.006	F	NO	N	0	0	0	0	0	0	30	0	0.12	67	30
1/07/4-84	0.005	F	NO	S	0	0	0	30	10	0	0	30	0.08	100	70
1/07/4-85	0.002	M	SLIGHT	N	0	0	0	0	30	0	0	0	0.04	67	30
1/07/4-86	0.005	M	NO P	S	0	0	0	0	30	30	0	30	0.13	100	90
1/07/4-87	0.002	F	NO	N	0	0	0	30	0	0	0	0	0.05	67	30
1/07/4-88	0.002	M	SLIGHT	N	0	0	0	30	0	0	0	0	0.05	67	30
1/07/4-89	0.005	M	NO	N	0	30	0	0	10	0	0	0	0.13	67	40
1/07/4-90	0.004	M	NO	N	0	0	10	30	10	0	0	0	0.22	100	50
1/07/4-91	0.003	M	50	N	0	0	10	30	0	30	0	0	0.07	67	70
1/07/4-92	0.002	F	NO	N	0	0	0	0	0	0	0	0	0.05	100	0

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
1/07/4-93	0.003	F	SLIGHT	N	0	0	20	0	0	0	0	0	0.06	67	20
1/07/4-94	0.003	F	NO	S	0	0	0	30	0	0	0	30	0.07	100	60
1/07/4-95	0.002	F	50	N	0	0	10	30	0	0	0	0	0.10	67	40
1/07/4-96	0.002	M	NO	N	0	0	0	0	0	0	0	0	0.05	67	0
1/07/4-97	0.011	F	50	N	0	0	0	0	30	0	30	0	0.21	67	60
1/07/4-98	0.018	F	50	N	0	0	0	30	30	0	30	0	0.35	67	90
1/07/4-99	0.002	F	50	N	0	0	0	0	0	30	0	0	0.05	67	30
1/07/5-70	0.002	M	COMP	N	0	0	0	30	0	0	0	0	0.10	67	30
1/07/5-71	0.002	F	SLIGHT	N	0	0	0	30	30	0	0	0	0.10	67	60
1/07/5-72	0.002	F	COMP	N	0	0	10	0	0	0	0	0	0.08	67	10
1/07/5-73	0.003	I	50	N	0	0	10	30	0	0	30	0	0.36	100	70
1/07/5-74	<0.001	F	COMP	N	0	0	10	30	0	30	0	0		0	70
1/07/5-75	<0.001	I	NO	N	0	0	10	30	0	0	0	0		0	40
1/07/5-76	<0.001	F	COMP	N	0	0	10	30	30	30	0	0		100	100
1/07/5-77	0.004	M	COMP	N	0	0	0	30	0	0	30	0	0.20	100	60
1/07/5-78	<0.001	I	COMP	N	0	0	10	30	0	30	0	0		67	70
1/07/5-79	<0.001	F	SLIGHT	N	0	0	0	0	0	30	0	0		0	30
1/07/5-80	<0.001	F	COMP	N	0	0	10	30	0	30	0	0		100	70
1/07/5-81	0.002	M	NO	N	0	0	0	30	0	30	0	0	0.23	67	60
1/07/5-82	0.001	F	COMP	N	0	0	10	30	0	0	0	0	0.07	67	40
1/07/5-83	<0.001	F	SLIGHT	N	0	0	10	30	0	0	0	0		100	40
1/07/5-84	<0.001	I	50	N	0	0	0	0	0	30	0	0		100	30
1/07/5-85	0.002	M	NO	N	0	0	10	30	0	0	0	0	0.12	100	40
1/07/5-86	<0.001	F	COMP	N	0	0	0	30	0	30	0	0		67	60
1/07/5-87	<0.001	M	50	N	0	0	10	30	0	30	0	0		0	70
1/07/5-88	<0.001	I	COMP	N	0	0	10	30	0	30	0	0		67	70
1/07/5-89	<0.001	I	COMP	N	0	0	10	30	0	30	0	0		67	70
1/07/5-90	<0.001	F	COMP	N	0	0	0	30	10	30	0	0		100	70
1/07/5-91	<0.001	I	NO	N	0	0	10	30	0	30	0	0		100	70
1/07/5-92	<0.001	F	NO	N	0	0	0	30	30	0	0	0		100	60
1/07/5-93	0.002	F	SLIGHT P	N	0	0	0	30	0	0	0	0	0.10	0	30
1/07/5-94	0.002	F	SLIGHT	N	0	0	10	30	0	30	0	0	0.09	67	70
1/07/5-95	0.004	F	COMP P	N	0	30	0	0	0	30	0	0	0.05	67	60
1/07/6-70	0.005	F	COMP	N	0	30	0	0	30	30	0	0	0.09	67	90
1/07/6-71	0.002	F	SLIGHT	N	0	30	0	30	0	30	0	0	0.08	0	90
1/07/6-72	0.002	M	SLIGHT P	N	0	30	0	30	0	30	0	0	0.06	67	90
1/07/6-73	0.005	M	SLIGHT P	N	0	0	10	30	0	30	0	0	0.15	0	70
1/07/6-74	0.006	M	COMP P	N	0	0	10	0	0	0	0	0	0.21	100	10
1/07/6-75	0.005	M	COMP	N	0	0	0	0	0	30	0	0	0.12	67	30
1/07/6-76	0.002	M	SLIGHT	N	0	0	10	0	0	30	0	0	0.04	0	40
1/07/6-77	0.004	M	COMP	N	0	30	0	0	0	30	0	0	0.06	67	60
1/07/6-78	0.002	M	COMP	N	0	30	10	30	30	30	0	0	0.05	0	130
1/07/6-79	0.007	F	50	N	0	0	0	30	10	30	0	0	0.13	67	70
1/07/6-80	0.004	F	50	N	0	0	0	30	30	30	0	0	0.08	67	90
1/07/6-81	0.003	M	50	N	0	0	0	0	0	30	0	0	0.08	0	30

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
1/07/6-82	0.007	M	SLIGHT	SM	0	0	10	0	0	30	30	30	0.16	100	100
1/07/6-83	0.001	M	SLIGHT	N	0	0	0	30	30	30	0	0	0.04	100	90
1/07/6-84	0.006	F	COMP	N	0	30	0	0	0	30	0	0	0.11	0	60
1/07/6-85	0.003	F	SLIGHT	N	0	0	0	0	0	30	0	0	0.09	67	30
1/07/6-86	0.007	F	COMP	N	0	0	0	0	0	30	30	0	0.15	67	60
1/07/6-87	0.004	M	50 P	N	0	0	0	30	0	30	30	0	0.07	0	90
1/07/6-88	0.006	F	COMP P	N	0	0	0	0	30	30	0	0	0.12	67	60
1/07/6-89	0.008	M	COMP	N	0	0	0	0	0	30	30	0	0.24	0	60
1/07/6-90	0.003	F	SLIGHT	N	0	0	0	0	0	0	0	0	0.07	0	0
1/07/6-91	0.007	F	SLIGHT P	S	0	0	0	0	0	0	30	30	0.13	100	60
1/07/6-92	0.003	M	COMP	N	0	0	10	30	0	30	0	0	0.07	0	70
1/07/6-93	0.007	F	50	S	0	0	0	0	0	30	30	30	0.15	67	90
1/07/6-94	0.005	F	50 P	N	0	0	0	30	0	30	0	0	0.13	67	60
1/07/6-95	0.003	F	SLIGHT P	N	0	0	0	30	0	30	0	0	0.06	67	60
1/07/6-96	0.008	F	50	N	0	30	10	30	30	30	30	0	0.14	67	160
1/07/6-97	0.003	F	SLIGHT	N	0	30	10	30	30	0	0	0	0.07	67	100
1/07/6-98	0.001	F	SLIGHT P	N	0	0	0	30	0	30	0	0	0.03	67	60
1/07/6-99	0.003	M	SLIGHT	N	0	0	0	30	0	0	0	0	0.08	0	30
4/07/1-70	0.002	F	NO P	N	0	0	10	0	0	30	0	0	0.03	100	40
4/07/1-71	0.003	M	SLIGHT	N	0	0	0	0	0	0	0	0	0.08	67	0
4/07/1-72	0.002	M	NO	N	0	0	0	30	0	0	0	0	0.14	100	30
4/07/1-73	0.003	M	NO	N	0	0	10	0	0	0	0	0	0.06	67	10
4/07/1-74	0.003	M	>50	N	0	0	0	0	0	30	0	0	0.07	100	30
4/07/1-75	0.004	F	NO	N	0	0	10	30	0	0	0	0	0.11	67	40
4/07/1-76	0.007	M	SLIGHT P	N	0	0	10	30	0	0	0	0	0.15	67	40
4/07/1-77	0.007	M	NO	N	0	0	10	30	0	0	0	0	0.15	67	40
4/07/1-78	0.003	M	NO	N	0	0	10	30	0	0	0	0	0.05	67	40
4/07/1-79	<0.001	F	NO	N	0	0	0	0	0	30	0	0		67	30
4/07/1-80	0.005	M	NO P	SM	0	0	0	0	0	0	0	30	0.10	67	30
4/07/1-81	0.002	M	NO	N	0	0	0	0	0	0	0	0	0.05	67	0
4/07/1-82	0.005	M	50 P	SM	0	0	0	30	0	0	0	30	0.13	100	60
4/07/1-83	0.013	M	SLIGHT	N	0	0	10	30	0	0	30	0	0.24	100	70
4/07/1-84	0.003	M	NO	N	0	0	10	30	0	0	0	0	0.06	67	40
4/07/2-70	0.005	M	NO	N	0	0	10	30	0	0	30	0	0.14	100	70
4/07/2-71	0.003	F	NO	S	0	0	10	30	10	0	0	30	0.37	67	80
4/07/2-72	0.006	M	NO	N	0	0	10	30	10	30	30	0	0.38	100	110
4/07/2-73	0.001	F	NO	N	0	0	10	30	10	0	0	0	0.06	67	50
4/07/2-74	0.003	F	NO P	N	0	0	20	30	0	0	0	0	0.19	100	50
4/07/2-75	<0.001	F	NO	N	0	0	0	0	0	0	0	0		100	0
4/07/2-76	0.002	M	NO	SM	0	0	0	0	0	30	0	30	0.14	67	60
4/07/2-77	<0.001	M	NO	N	0	0	0	0	0	0	0	0		67	0
4/07/2-78	0.002	M	NO	N	0	0	10	0	0	0	0	0	0.17	67	10
4/07/2-79	0.002	F	NO	N	0	0	10	0	0	0	0	0	0.16	67	10
4/07/2-80	<0.001	M	NO	N	0	0	0	0	0	0	0	0		33	0
4/07/2-81	0.001	F	NO	N	0	0	0	0	0	0	0	0	0.05	67	0

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
4/07/2-82	<0.001	F	NO	N	0	0	10	0	0	0	0	0		67	10
4/07/2-83	0.001	F	SLIGHT	S	0	0	10	0	10	30	0	30	0.07	100	80
4/07/2-84	0.002	F	SLIGHT	N	0	0	0	0	0	0	0	0	0.11	100	0
4/07/2-85	<0.001	F	NO	N	0	0	10	30	20	0	0	0		100	60
4/07/2-86	0.002	F	NO	N	0	0	0	0	0	0	0	0	0.11	67	0
4/07/2-87	0.001	F	SLIGHT	N	0	0	0	0	0	0	0	0	0.04	67	0
4/07/2-88	0.003	F	NO	N	0	0	10	30	0	0	0	0	0.20	67	40
4/07/2-89	<0.001	F	NO	N	0	0	10	30	10	0	0	0		67	50
4/07/2-90	<0.001	F	NO P	S	0	0	10	30	10	30	0	30		100	110
4/07/2-91	<0.001	M	NO	N	0	0	0	0	0	30	0	0		67	30
4/07/2-92	0.002	F	NO	N	30	0	0	30	0	0	30	0	0.03	67	90
4/07/2-93	0.007	F	NO	N	0	0	10	30	10	0	0	0	0.15	67	50
4/07/2-94	<0.001	F	NO	N	0	0	0	0	0	0	0	0		67	0
4/07/2-95	0.002	M	NO	N	0	0	10	30	0	0	0	0	0.10	67	40
4/07/2-96	0.008	F	NO	S	0	0	0	0	0	30	30	30	0.36	67	90
4/07/2-97	<0.001	F	NO	N	0	0	0	0	0	0	0	0		67	0
4/07/2-98	0.003	F	NO	N	0	0	10	0	0	0	0	0	0.06	67	10
4/07/2-99	0.008	M	NO	N	0	0	10	30	0	0	30	0	0.56	67	70
4/07/3-70	0.002	M	NO	N	0	0	10	30	0	0	0	0	0.09	67	40
4/07/3-71	0.003	M	NO	N	0	0	10	30	0	0	0	0	0.15	67	40
4/07/3-72	<0.001	F	NO	N	0	0	10	30	30	30	0	0		67	100
4/07/3-73	0.001	F	SLIGHT	M	0	0	10	30	0	30	0	30	0.03	67	100
4/07/3-74	0.002	F	NO	N	0	0	0	30	20	0	0	0	0.07	67	50
4/07/3-75	0.001	F	SLIGHT	N	0	30	10	30	30	30	30	0	0.05	67	160
4/07/3-76	0.003	F	SLIGHT	M	0	0	10	30	0	30	30	30	0.09	0	130
4/07/3-77	0.001	F	SLIGHT	N	0	0	10	30	0	0	0	0	0.04	67	40
4/07/3-78	0.001	M	NO	N	0	0	20	30	10	0	0	0	0.06	67	60
4/07/3-79	0.001	F	NO	N	0	0	10	30	10	0	0	0	0.05	100	50
4/07/3-80	0.001	M	NO	N	0	0	0	30	0	0	0	0	0.03	67	30
4/07/3-81	0.001	F	SLIGHT	N	0	0	0	30	10	0	0	0	0.03	100	40
4/07/3-82	0.002	F	NO	N	0	0	0	0	0	0	0	0	0.12	67	0
4/07/3-83	0.002	F	NO	N	0	0	0	30	0	0	0	0	0.08	67	30
4/07/3-84	0.001	F	NO	N	0	0	0	30	10	30	0	0	0.04	67	70
4/07/3-85	0.002	F	NO	N	0	0	10	30	0	30	0	0	0.14	100	70
4/07/3-86	<0.001	M	NO	SM	0	0	10	30	10	30	0	30		67	110
4/07/3-87	0.001	M	NO	N	0	0	20	30	30	0	0	0	0.09	67	80
4/07/3-88	0.002	M	NO	N	0	0	20	30	10	0	0	0	0.15	67	60
4/07/4-70	0.003	F	NO	N	0	0	10	0	0	0	0	0	0.04	67	10
4/07/4-71	0.006	F	SLIGHT	N	0	0	0	0	0	0	30	0	0.10	67	30
4/07/4-72	0.002	M	NO	N	0	0	10	0	0	0	0	0	0.04	100	10
4/07/4-73	0.003	F	SLIGHT	N	0	0	10	30	0	0	0	0	0.07	67	40
4/07/4-74	0.005	M	SLIGHT	N	0	0	10	30	0	0	0	0	0.18	67	40
4/07/4-75	0.003	F	SLIGHT	N	0	0	10	30	30	0	0	0	0.04	67	70
4/07/4-76	0.004	F	NO	N	0	0	0	30	0	0	0	0	0.05	67	30
4/07/4-77	0.004	M	NO	N	0	0	10	30	0	0	30	0	0.14	67	70

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
4/07/4-78	0.004	F	NO	N	0	0	10	0	0	0	30	0	0.06	67	40
4/07/4-79	0.003	F	50	N	0	0	10	30	0	0	30	0	0.08	67	70
4/07/4-80	0.008	M	NO	S	0	30	0	30	0	0	30	30	0.19	67	120
4/07/4-81	0.003	F	NO	N	0	30	10	30	30	0	0	0	0.04	67	100
4/07/4-82	0.005	M	NO	S	0	30	10	30	30	0	30	30	0.13	67	160
4/07/4-83	0.005	M	50	SM	0	0	10	0	30	30	30	30	0.10	67	130
4/07/5-70	<0.001	M	>50	N	0	0	10	30	0	30	30	0		67	100
4/07/5-71	<0.001	I	NO	OT	0	0	10	30	0	0	0	30		67	70
4/07/5-72	0.001	F	NO	N	0	0	10	30	0	0	0	0	0.06	67	40
4/07/5-73	<0.001	F	NO	N	0	0	10	30	10	0	0	0		67	50
4/07/5-74	0.002	F	SLIGHT	N	0	0	10	30	10	0	0	0	0.13	67	50
4/07/5-75	<0.001	M	SLIGHT	N	0	0	10	0	0	30	30	0		0	70
4/07/5-76	0.001	M	SLIGHT	N	0	0	10	30	10	0	0	0	0.07	67	50
4/07/5-77	0.009	F	50	N	0	0	0	30	0	0	0	0	0.17	67	30
4/07/5-78	0.001	M	SLIGHT	N	0	0	20	30	0	0	0	0	0.08	67	50
4/07/5-79	0.002	M	SLIGHT	N	0	0	10	30	0	0	0	0	0.10	67	40
4/07/5-80	<0.001	M	NO	N	0	0	20	30	0	0	0	0		67	50
4/07/5-81	<0.001	F	NO	N	0	0	10	30	0	0	0	0		100	40
4/07/5-82	<0.001	M	SLIGHT	N	0	0	10	30	0	0	0	0		33	40
4/07/5-83	<0.001	M	50	N	0	0	10	30	0	0	0	0		67	40
4/07/5-84	0.002	F	NO	N	0	0	10	30	0	0	0	0	0.03	67	40
10/07/1-70	<0.001	F	NO	N	0	0	10	30	0	0	0	0		67	40
10/07/1-71	N/A	F	SLIGHT	N	0	0	10	30	0	30	0	0		67	70
10/07/1-72	<0.001	I	NO	N	0	0	10	30	10	30	0	0		67	80
10/07/1-73	0.003	F	SLIGHT P	N	0	0	0	0	0	0	0	0	0.15	67	0
10/07/1-74	0.002	M	NO	N	0	0	10	0	0	0	0	0	0.19	67	10
10/07/1-75	0.003	I	SLIGHT	N	0	0	10	0	10	0	0	0	0.23	67	20
10/07/1-76	0.003	I	SLIGHT	N	0	0	10	30	0	0	0	0	0.21	67	40
10/07/1-77	0.002	I	SLIGHT	N	0	0	10	30	0	0	0	0	0.16	0	40
10/07/1-78	0.001	F	NO	N	0	0	10	0	0	0	0	0	0.08	100	10
10/07/1-79	<0.001	F	NO	N	0	0	0	0	0	0	0	0		67	0
10/07/1-80	0.001	F	NO	N	0	0	10	0	0	0	0	0	0.08	67	10
10/07/1-81	N/A	F	50	N	0	0	0	0	0	30	0	0			30
10/07/1-82	0.003	F	>50	N	0	0	10	0	0	0	30	0	0.30	67	40
10/07/1-83	0.002	F	NO	N	0	0	10	30	0	0	0	0	0.21	67	40
10/07/1-84	<0.001	I	>50	N	0	0	20	30	0	30	0	0		67	80
10/07/1-85	0.002	F	NO	N	0	0	0	30	0	0	0	0	0.27	67	30
10/07/1-86	<0.001	I	SLIGHT	N	0	0	10	30	0	0	0	0		67	40
10/07/1-87	<0.001	F	NO	N	0	0	10	30	0	0	0	0		67	40
10/07/1-88	0.001	M	COMP P	N	0	0	10	30	0	30	0	0	0.07	67	70
10/07/1-89	<0.001	F	NO	N	0	0	0	30	0	0	0	0		67	30
10/07/1-90	<0.001	F	SLIGHT P	N	0	0	10	30	0	0	0	0		67	40
10/07/1-91	N/A	M	NO	N	0	0	0	30	0	0	0	0			30
10/07/1-92	<0.001	F	SLIGHT	N	0	0	10	30	10	0	0	0		67	50
10/07/1-93	0.007	F	NO	N	0	0	10	30	0	0	30	0	0.44	67	70

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
10/07/1-94	0.001	M	>50	SM	0	0	10	30	0	30	0	30	0.07	67	100
10/07/2-70	<0.001	F	50	S	0	0	10	30	0	30	0	30		67	100
10/07/2-71	0.002	F	50	N	0	0	0	30	0	0	0	0	0.18	67	30
10/07/2-72	N/A	M	50	N	0	0	10	30	0	0	0	0		67	40
10/07/2-73	<0.001	F	50	N	0	0	0	0	0	30	0	0		67	30
10/07/2-74	0.001	F	50 P	M	0	0	10	30	0	0	0	30	0.08	100	70
10/07/2-75	0.003	F	50 P	N	0	0	10	30	0	30	0	0	0.21	100	70
10/07/2-76	0.002	M	SLIGHT	N	0	0	10	30	0	0	0	0	0.14	67	40
10/07/2-77	0.001	F	SLIGHT P	SM	0	0	20	30	0	30	0	30	0.07	67	110
10/07/2-78	0.003	M	50	N	0	0	10	30	10	30	0	0	0.21	67	80
10/07/2-79	0.001	F	SLIGHT	N	0	0	10	30	0	30	0	0	0.05	67	70
10/07/2-80	<0.001	I	SLIGHT	N	0	0	0	0	0	0	0	0		67	0
10/07/2-81	0.006	I	SLIGHT	M	0	0	10	30	30	30	30	30	0.36	67	160
10/07/2-82	N/A	I	SLIGHT	N	0	0	10	30	0	30	0	0		67	70
10/07/2-83	0.001	I	SLIGHT	N	0	0	10	30	0	30	0	0	0.06	67	70
10/07/2-84	<0.001	I	NO	N	0	0	10	30	10	0	0	0		67	50
10/07/2-85	0.002	I	NO	N	0	0	30	30	20	30	0	0	0.13	67	110
10/07/2-86	0.001	I	SLIGHT	N	0	0	10	30	0	30	0	0	0.07	67	70
10/07/2-87	0.001	F	NO	N	0	0	10	30	10	0	0	0	0.07	67	50
10/07/2-88	0.001	F	NO	N	0	0	10	30	0	0	0	0	0.09	67	40
10/07/2-89	N/A	M	SLIGHT	N	0	0	10	30	0	30	0	0			70
10/07/3-70	0.006	F	COMP	N	0	0	10	30	0	30	0	0	0.11	100	70
10/07/3-71	0.005	F	NO	S	0	0	10	0	0	30	0	30	0.18	67	70
10/07/3-72	N/A	M	NO	N	0	0	10	30	10	0		0			50
10/07/3-73	0.004	F	50	N	0	0	10	30	0	0	0	0	0.14	67	40
10/07/3-74	0.008	F	50	N	0	0	10	30	0	0	30	0	0.25	67	70
10/07/3-75	0.012	F	50	S	0	0	30	30	30	0	30	30	0.31	100	150
10/07/3-76	0.009	M	50	S	0	0	20	30	10	0	30	30	0.50	67	120
10/07/3-77	0.007	F	SLIGHT	N	0	0	10	30	0	0	30	0	0.47	67	70
10/07/3-78	0.1	M	SLIGHT	N	0	0	0	30	0	0	30	0	2.87	67	60
10/07/3-79	N/A	M	NO	N	0	0	10	30	0	0		0		67	40
10/07/3-80	0.01	F	NO	N	0	0	10	30	0	0	30	0	0.41	100	70
10/07/3-81	0.01	F	COMP P	N	0	0	10	30	0	30	0	0	0.25	67	70
10/07/3-82	0.01	F	SLIGHT	S	0	0	10	30	0	0	30	30	0.36	100	100
10/07/3-83	0.004	M	SLIGHT	N	0	0	10	30	30	0	0	0	0.10	67	70
10/07/3-84	N/A	F	50	S	0	0	10	30	0	0	0	30			70
10/07/4-70	0.001	M	COMP	N	0	0	10	30	0	30	0	0	0.05	67	70
10/07/4-71	<0.001	F	COMP P	N	0	0	0	0	0	30	0	0		100	30
10/07/4-72	0.002	F	50	N	0	0	10	30	30	30	30	0	0.08	67	130
10/07/4-73	0.005	F	50 P	S	0	0	10	30	0	30	30	30	0.25	67	130
10/07/4-74	N/A	M	COMP	N	0	0	10	30	0	30	0	0			70
10/07/4-75	0.002	M	SLIGHT	S	0	0	0	0	0	30	0	30	0.12	100	60
10/07/4-76	0.003	F	SLIGHT	S	0	0	10	30	0	30	0	30	0.17	67	100
10/07/4-77	0.003	F	SLIGHT P	N	0	0	10	30	0	30	0	0	0.20	67	70
10/07/4-78	<0.001	F	SLIGHT P	S	0	0	10	30	0	0	0	30		67	70

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
10/07/4-79	0.003	F	SLIGHT P	N	0	0	0	30	30	30	30	0	0.16	67	120
10/07/4-80	0.002	F	SLIGHT P	N	0	0	10	30	0	0	0	0	0.11	67	40
10/07/4-81	<0.001	F	SLIGHT	N	0	30	10	30	10	0	0	0		67	80
10/07/4-82	<0.001	I	NO	N	0	0	30	30	0	30	0	0		67	90
10/07/4-83	0.006	F	SLIGHT	S	0	0	30	30	10	0	30	30	0.37	67	130
10/07/4-84	N/A	F	SLIGHT	N	0	0	10	30	0	0	0	0		67	40
10/07/4-85	0.006	F	COMP	S	0	0	10	30	0	30	30	30	0.27	67	130
10/07/4-86	<0.001	I	SLIGHT	N	0	0	10	30	0	30	0	0		67	70
10/07/4-87	0.001	I	SLIGHT	N	0	0	10	30	0	0	0	0	0.06	67	40
10/07/4-88	0.002	M	50	N	0	0	10	30	0	30	0	0	0.11	67	70
10/07/4-89	<0.001	I	SLIGHT	N	0	0	10	30	0	0	0	0		100	40
10/07/4-90	0.004	I	NO	S	0	0	10	30	0	0	30	30	0.24	67	100
10/07/4-91	0.004	F	50	N	0	0	10	30	0	30	30	0	0.28	67	100
10/07/4-92	0.005	F	SLIGHT	N	0	0	10	30	0	30	30	0	0.27	67	100
10/07/4-93	0.004	M	NO	N	0	30	0	30	0	0	30	0	0.23	100	90
10/07/4-94	N/A	F	SLIGHT	N	0	30	10	30	0	0	0	0			70
10/07/5-70	0.006	M	SLIGHT	S	0	0	10	30	0	30	30	30	0.27	100	130
10/07/5-71	0.004	F	SLIGHT	S	0	0	10	30	0	0	0	30	0.13	67	70
10/07/5-72	0.005	M	SLIGHT P	S	0	0	10	30	30	30	30	30	0.27	100	160
10/07/5-73	N/A	F	SLIGHT	S	0	0	10	30	0	0	0	30			70
10/07/5-74	0.003	M	SLIGHT	N	0	0	10	30	0	0	0	0	0.11	67	40
10/07/5-75	<0.001	I	SLIGHT	N	0	30	0	0	0	0	0	0		67	30
10/07/5-76	N/A	F	SLIGHT	S	0	0	30	30	0	0	0	30			90
10/07/5-77	0.002	F	SLIGHT	S	0	0	10	30	0	30	0	30	0.09	67	100
10/07/5-78	0.002	F	COMP	N	0	0	20	30	0	30	0	0	0.08	67	80
10/07/5-79	0.001	F	SLIGHT	N	0	0	10	30	0	30	0	0	0.04	67	70
10/07/5-80	<0.001	F	NO P	N	0	0	0	30	20	30	0	0		100	80
10/07/5-81	0.003	M	>50	N	30	0	10	30	0	30	0	0	0.10	67	100
10/07/5-82	0.004	M	50 P	N	0	0	10	30	30	0	0	0	0.15	67	70
10/07/5-83	<0.001	F	NO P	N	0	0	10	0	30	30	0	0		100	70
10/07/5-84	0.003	F	COMP	S	0	0	10	30	30	30	0	30	0.11	67	130
10/07/5-85	N/A	M	50	N	0	0	0	0	0	0	0	0			0
10/07/5-86	0.001	F	SLIGHT	N	0	30	0	30	0	0	0	0	0.03	67	60
10/07/5-87	<0.001	F	NO	N	0	0	20	30	0	30	0	0		100	80
10/07/5-88	0.004	M	COMP	M	0	0	0	0	0	30	0	30	0.12	100	60
10/07/5-89	<0.001	I	50 P	N	0	0	0	0	10	30	0	0		67	40
10/07/6-70	0.003	M	NO	N	0	0	10	0	0	0	0	0	0.09	100	10
10/07/6-71	N/A	F	SLIGHT	N	0	0	0	0	0	30	0	0			30
10/07/6-72	0.002	F	NO	S	0	0	10	30	0	30	0	30	0.10	0	100
10/07/6-73	N/A	F	NO	S	0	0	10	30	30	30	0	30		100	130
10/07/6-74	0.002	F	NO	N	0	0	10	30	0	30	0	0	0.17	100	70
10/07/6-75	0.001	F	NO	OT	0	0	0	0	0	30	0	30	0.12	100	60
10/07/6-76	0.003	M	NO	N	0	0	0	0	10	0	0	0	0.06	67	10
10/07/6-77	N/A	M	50	OT	0	0	0	0	0	30	0	30			60
10/07/6-78	0.005	M	COMP	N	0	0	10	0	0	0	30	0	0.16	100	40

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
10/07/6-79	0.001	F	>50 P	S OT	0	0	10	0	0	30	0	30	0.05	67	70
10/07/6-80	<0.001	M	50	N	0	0	30	30	0	30	0	0		100	90
10/07/6-81	<0.001	M	50	N	0	0	0	0	0	30	0	0		100	30
10/07/6-82	<0.001	F	SLIGHT	S	0	0	20	30	0	30	0	30		100	110
1/08/1-70	N/A	M	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/1-71	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/1-72	N/A	M	NO	N	0	0	30	0	0	0	0	0		67	30
1/08/1-73	N/A	F	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/1-74	N/A	M	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/1-75	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/1-76	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/1-77	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/1-78	N/A	F	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/1-79	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/1-80	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/1-81	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/1-82	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/1-83	N/A	M	SLIGHT	N	0	30	30	0	10	30	0	0		100	100
1/08/1-84	N/A	F	SLIGHT	N	0	0	30	0	0	0	0	0		100	30
1/08/1-85	N/A	M	SLIGHT	N	0	0	30	0	0	0	0	0		67	30
1/08/1-86	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/1-87	N/A	M	NO	N	0	30	30	30	0	30	0	0		67	120
1/08/1-88	N/A	M	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/1-89	N/A	F	NO	N	0	0	0	0	0	30	0	0		100	30
1/08/1-90	N/A	M	NO	N	0	0	30	30	0	30	0	0		100	90
1/08/1-91	N/A	M	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/1-92	N/A	M	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/1-93	N/A	F	NO	N	0	0	30	30	0	30	0	0		100	90
1/08/1-94	N/A	M	NO	N	0	0	30	30	0	30	0	0		100	90
1/08/1-95	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/1-96	N/A	M	NO	N	0	30	30	0	10	30	0	0		100	100
1/08/1-97	N/A	F	NO	N	0	0	30	30	0	30	0	0		100	90
1/08/1-98	N/A	M	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/1-99	N/A	M	NO	OT	0	0	30	30	0	30	0	30		100	120
1/08/2-70	N/A	M	SLIGHT	N	0	0	30	30	0	0	0	0		67	60
1/08/2-71	N/A	M	SLIGHT	N	0	0	30	30	0	0	0	0		100	60
1/08/2-72	N/A	F	SLIGHT	N	0	0	30	30	0	0	0	0		67	60
1/08/2-73	N/A	M	NO	N	0	0	30	30	0	0	0	0		67	60
1/08/2-74	N/A	F	SLIGHT	N	0	0	30	0	0	0	0	0		67	30
1/08/2-75	N/A	M	NO	N	0	0	30	0	0	0	0	0		100	30
1/08/2-76	N/A	M	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/2-77	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/2-78	N/A	M	SLIGHT	N	0	0	30	0	10	0	0	0		67	40
1/08/2-79	N/A	M	SLIGHT	N	0	0	30	0	0	0	0	0		100	30
1/08/2-80	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
1/08/2-81	N/A	F	SLIGHT	N	0	0	30	0	10	30	0	0		67	70
1/08/2-82	N/A	F	SLIGHT	N	0	30	30	30	0	30	0	0		100	120
1/08/2-83	N/A	M	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/2-84	N/A	M	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/2-85	N/A	M	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/2-86	N/A	F	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/2-87	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/2-88	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/2-89	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/2-90	N/A	F	SLIGHT	N	0	0	30	0	10	30	0	0		100	70
1/08/2-91	N/A	M	50	N	0	30	30	30	0	30	0	0		100	120
1/08/2-92	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/2-93	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/2-94	N/A	F	50	N	0	0	30	0	10	30	0	0		67	70
1/08/2-95	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/2-96	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/2-97	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/2-98	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/2-99	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/3-70	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/3-71	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/3-72	N/A	F	SLIGHT	N	0	0	30	0	0	0	0	0		100	30
1/08/3-73	N/A	F	SLIGHT	N	0	0	30	0	10	30	0	0		67	70
1/08/3-74	N/A	F	SLIGHT	N	0	0	30	0	0	0	0	0		67	30
1/08/3-75	N/A	F	SLIGHT	N	0	0	30	0	10	0	0	0		67	40
1/08/3-76	N/A	F	50	N	0	0	30	0	0	30	0	0		67	60
1/08/3-77	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/3-78	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/3-79	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/3-80	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/3-81	N/A	M	50	N	0	0	30	0	10	30	0	0		100	70
1/08/3-82	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/3-83	N/A	F	50	N	0	0	30	0	0	30	0	0		100	60
1/08/3-84	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/3-85	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/3-86	N/A	F	NO	N	0	0	30	0	10	30	0	0		67	70
1/08/3-87	N/A	F	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/3-88	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/3-89	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/3-90	N/A	I	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/3-91	N/A	F	NO	N	0	30	30	0	10	30	0	0		100	100
1/08/3-92	N/A	F	SLIGHT	N	0	30	30	0	30	30	0	0		100	120
1/08/3-93	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/3-94	N/A	F	SLIGHT	N	0	0	30	30	0	30	0	0		67	90
1/08/3-95	N/A	M	SLIGHT	N	0	0	30	30	0	30	0	0		67	90

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
1/08/3-96	N/A	M	NO	N	0	0	30	30	0	30	0	0		67	90
1/08/3-97	N/A	M	SLIGHT	N	0	0	30	30	0	30	0	0		100	90
1/08/3-98	N/A		SLIGHT	N	0	0	30	30	0	30	0	0		67	90
1/08/3-99	N/A	F	SLIGHT	N	0	0	30	30	0	30	0	0		67	90
1/08/4-70	N/A	F	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/4-71	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/4-72	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/4-73	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/4-74	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/4-75	N/A	F	SLIGHT	N	0	0	0	0	0	30	0	0		67	30
1/08/4-76	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/4-77	N/A	F	SLIGHT	N	0	0	30	0	10	30	0	0		67	70
1/08/4-78	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/4-79	N/A	M	SLIGHT	N	0	0	0	0	0	30	0	0		100	30
1/08/4-80	N/A	F	50	N	0	0	30	0	0	30	0	0		100	60
1/08/4-81	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/4-82	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/4-83	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/4-84	N/A	M	50	N	0	0	30	0	0	30	0	0		100	60
1/08/4-85	N/A	M	50	N	0	0	30	0	0	30	0	0		67	60
1/08/4-86	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/4-87	N/A	F	50	N	0	0	30	0	0	30	0	0		67	60
1/08/4-88	N/A	F	SLIGHT	N	0	0	30	0	20	30	0	0		67	80
1/08/4-89	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/4-90	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/4-91	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/4-92	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/4-93	N/A	M	SLIGHT	N	0	0	0	0	30	30	0	0		67	60
1/08/4-94	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/4-95	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/4-96	N/A	M	SLIGHT	N	0	0	30	0	30	30	0	0		67	90
1/08/4-97	N/A	M	50	N	0	0	30	0	0	30	0	0		100	60
1/08/4-98	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/4-99	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-70	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-71	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-72	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-73	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/5-74	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-75	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-76	N/A	F	50	N	0	30	30	0	10	30	0	0		67	100
1/08/5-77	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-78	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/5-79	N/A	M	SLIGHT	N	0	0	30	0	0	0	0	0		100	30
1/08/5-80	N/A	M	SLIGHT	N	0	0	30	0	0	0	0	0		67	30

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SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
1/08/5-81	N/A	F	SLIGHT	N	0	0	30	0	0	0	0	0		67	30
1/08/5-82	N/A	F	SLIGHT	N	0	0	20	0	0	0	0	0		67	20
1/08/5-83	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-84	N/A	M	NO	N	0	30	20	0	0	30	0	0		67	80
1/08/5-85	N/A	F	NO	N	0	0	30	0	30	30	0	0		100	90
1/08/5-86	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-87	N/A	F	50	N	0	0	30	0	0	30	0	0		67	60
1/08/5-88	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-89	N/A	M	NO	N	0	0	30	0	0	30	0	0		100	60
1/08/5-90	N/A	M	SLIGHT	N	0	0	30	0	0	0	0	0		67	30
1/08/5-91	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-92	N/A	M	50	N	0	0	30	0	0	30	0	0		67	60
1/08/5-93	N/A	M	50	N	0	0	30	0	0	30	0	0		67	60
1/08/5-94	N/A	M	50	N	0	0	10	0	0	0	0	0		100	10
1/08/5-95	N/A	M	SLIGHT	N	0	0	30	0	0	0	0	0		67	30
1/08/5-96	N/A	F	SLIGHT	N	0	30	30	0	0	30	0	0		100	90
1/08/5-97	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/5-98	N/A	M	SLIGHT	N	0	0	30	0	0	0	0	0		67	30
1/08/5-99	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/6-70	N/A	F	SLIGHT	N	0	0	30	0	10	0	0	0		33	40
1/08/6-71	N/A	M	50	S	0	0	30	30	10	30	0	30		67	130
1/08/6-72	N/A	F	SLIGHT	N	0	0	10	30	10	30	0	0		100	80
1/08/6-73	N/A	F	NO	N	0	0	20	30	10	30	0	0		100	90
1/08/6-74	N/A	F	SLIGHT	N	0	0	10	0	30	30	0	0		67	70
1/08/6-75	N/A	F	NO	N	0	0	30	0	0	30	0	0		67	60
1/08/6-76	N/A	F	SLIGHT	N	0	0	30	0	0	0	0	0		100	30
1/08/6-77	N/A	F	SLIGHT	N	0	0	10	30	0	30	0	0		33	70
1/08/6-78	N/A	M	50	N	0	0	10	0	0	30	0	0		67	40
1/08/6-79	N/A	F	50	N	0	0	30	0	0	30	0	0		33	60
1/08/6-80	N/A	F	SLIGHT	N	0	0	30	0	0	0	0	0		100	30
1/08/6-81	N/A	M	SLIGHT	N	0	0	10	0	30	0	0	0		100	40
1/08/6-82	N/A	F	NO	N	0	0	10	0	0	0	0	0		100	10
1/08/6-83	N/A	F	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/6-84	N/A	F	SLIGHT	N	0	0	30	0	0	0	0	0		67	30
1/08/6-85	N/A	M	SLIGHT	N	0	0	30	0	0	0	0	0		100	30
1/08/6-86	N/A	F	SLIGHT	N	0	0	10	0	0	30	0	0		100	40
1/08/6-87	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/6-88	N/A	F	SLIGHT	N	0	0	30	0	30	30	30	0		100	120
1/08/6-89	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/6-90	N/A	F	SLIGHT	N	0	0	30	0	30	30	0	0		67	90
1/08/6-91	N/A	M	SLIGHT	N	0	30	30	0	30	30	0	0		33	120
1/08/6-92	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		67	60
1/08/6-93	N/A	M	SLIGHT	S	0	0	30	0	0	30	0	30		67	90
1/08/6-94	N/A	M	SLIGHT	N	0	0	30	0	0	30	0	0		100	60
1/08/6-95	N/A	M	SLIGHT	N	0	0	30	0	30	30	0	0		67	90

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SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
1/08/6-96	N/A	M	50	N	0	0	30	0	0	30	0	0		100	60
1/08/6-97	N/A	M	50	N	0	0	30	0	0	30	0	0		67	60
1/08/6-98	N/A	F	SLIGHT	S	0	0	30	0	0	30	0	30		67	90
1/08/6-99	N/A	F	SLIGHT	N	0	0	30	0	30	30	0	0		100	90
4/08/1-70	N/A	F	SLIGHT	N	0	0	10	30	0	30	0	0		100	70
4/08/1-71	<0.001	F	SLIGHT	S	0	0	10	30	10	0	0	30		67	80
4/08/1-72	N/A	M	SLIGHT	S	0	0	0	30	0	30	0	30		100	90
4/08/1-73	0.001	M	COMP	N	0	0	10	30	0	30	0	0	0.08	67	70
4/08/1-74	N/A	F	50	S	0	0	10	30	0	0	0	30		100	70
4/08/1-75	0.001	F	50	N	0	0	10	30	0	30	0	0	0.06	67	70
4/08/1-76	<0.001	M	NO	S	0	0	0	30	0	30	0	30		100	90
4/08/1-77	0.001	F	SLIGHT	N	0	0	10	30	0	30	0	0	0.08	67	70
4/08/1-78	<0.001	M	SLIGHT	N	0	0	10	30	0	30	0	0		100	70
4/08/1-79	<0.001	F	NO	N	0	0	10	0	10	30	0	0		67	50
4/08/1-80	N/A	M	SLIGHT	S	0	0	10	0	0	0	0	30		100	40
4/08/1-81	0.001	F	SLIGHT	N	0	0	10	0	0	0	0	0	0.09	67	10
4/08/1-82	N/A	F	SLIGHT	N	0	0	10	30	0	30	0	0		67	70
4/08/1-83	<0.001	M	SLIGHT	N	0	0	10	0	0	30	0	0		67	40
4/08/1-84	N/A	F	SLIGHT	S	0	0	10	30	0	30	0	30		67	100
4/08/1-85	0.001	M	COMP	N	0	0	10	30	10	30	0	0	0.08	67	80
4/08/1-86	<0.001	M	SLIGHT	N	0	0	10	30	0	30	0	0		67	70
4/08/1-87	<0.001	M	NO	N	0	0	20	30	0	30	0	0		100	80
4/08/1-88	<0.001	M	SLIGHT	N	0	0	10	0	0	30	0	0		100	40
4/08/1-89	<0.001	F	NO	S	0	0	10	30	0	30	0	30		67	100
4/08/1-90	<0.001	F	NO	N	0	0	10	30	0	30	0	0		67	70
4/08/1-91	0.004	M	NO	N	0	0	10	30	0	0	30	0	0.19	67	70
4/08/1-92	0.002	F	50	S	0	0	10	0	0	30	0	30	0.19	67	70
4/08/1-93	<0.001	F	50	N	0	0	10	30	0	30	0	0		67	70
4/08/1-94	<0.001	M	SLIGHT	N	0	0	10	0	0	30	0	0		67	40
4/08/1-95	<0.001	F	NO	N	0	0	0	0	0	0	0	0		67	0
4/08/1-96	0.003	M	COMP	N	0	0	0	30	0	30	0	0	0.18	67	60
4/08/1-97	<0.001	M	SLIGHT	N	0	0	10	30	0	30	0	0		67	70
4/08/1-98	<0.001	M	NO	N	0	0	10	0	0	30	0	0		67	40
4/08/1-99	0.007	M	SLIGHT	S	0	0	10	30	0	30	30	30	0.37	67	130
4/08/2-70	0.002	M	NO	S	0	0	10	30	30	0	0	30	0.09	100	100
4/08/2-71	0.001	M	NO	N	0	0	10	30	0	30	0	0	0.05	100	70
4/08/2-72	N/A	M	NO	N	0	0	10	30	0	0	0	0		100	40
4/08/2-73	0.001	M	NO	N	0	0	10	30	0	0	0	0	0.04	100	40
4/08/2-74	N/A	F	SLIGHT	N	0	0	10	30	0	0	0	0		100	40
4/08/2-75	0.003	F	SLIGHT	S	0	0	10	30	20	30	0	30	0.12	100	120
4/08/2-76	0.003	M	SLIGHT	S	0	0	10	30	0	0	0	30	0.14	67	70
4/08/2-77	<0.001	F	NO	S	0	0	10	30	10	30	0	30		67	110
4/08/2-78	0.001	F	SLIGHT	N	0	0	10	0	0	30	0	0	0.04	67	40
4/08/2-79	0.001	M	50	N	0	0	10	30	0	0	0	0	0.05	67	40
4/08/2-80	0.002	F	SLIGHT	S	0	0	10	30	10	30	0	30	0.13	67	110

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SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
4/08/2-81	0.002	M	NO	S	0	0	0	0	0	0	0	30	0.08	67	30
4/08/2-82	0.002	F	COMP	S	0	0	10	30	0	0	0	30	0.13	67	70
4/08/2-83	0.001	F	COMP	N	0	0	10	30	10	30	0	0	0.04	67	80
4/08/2-84	<0.001	M	NO	N	0	0	0	30	0	0	0	0		100	30
4/08/2-85	0.003	M	SLIGHT	S	0	0	10	30	0	30	30	30	0.13	67	130
4/08/2-86	N/A	F	SLIGHT	N	0	0	10	30	0	0	0	0		100	40
4/08/2-87	<0.001	M	NO	N	0	0	10	0	0	30	0	0		67	40
4/08/2-88	<0.001	F	NO	N	0	0	10	30	0	30	0	0		67	70
4/08/2-89	N/A	M	NO	S	0	0	10	30	0	0	0	30		100	70
4/08/2-90	N/A	M	NO	N	0	0	10	30	0	30	0	0		67	70
4/08/2-91	<0.001	F	SLIGHT	N	0	0	10	30	0	30	0	0		100	70
4/08/2-92	<0.001	F	NO	S	0	0	0	0	0	30	0	30		67	60
4/08/2-93	0.004	F	NO	S	0	0	10	30	0	30	30	30	0.33	67	130
4/08/2-94	N/A	F	NO	S	0	0	10	30	0	30	0	30		67	100
4/08/2-95	0.001	M	COMP	N	0	0	10	30	10	30	0	0	0.04	67	80
4/08/2-96	<0.001	F	SLIGHT	N	0	0	10	30	0	30	0	0		67	70
4/08/2-97	<0.001	F	NO	S	0	0	10	30	20	30	0	30		67	120
4/08/2-98	0.003	M	50	N	0	0	10	30	0	30	0	0	0.07	67	70
4/08/2-99	0.003	M	NO	N	0	0	10	30	0	0	0	0	0.13	67	40
4/08/3-70	N/A	F	NO	N	0	0	20	30	0	0	0	0		100	50
4/08/3-71	0.005	M	NO	S	0	0	10	30	10	30	0	30	0.16	67	110
4/08/3-72	.0.001	M	SLIGHT	S	0	0	10	30	0	30	0	30		67	100
4/08/3-73	N/A	F	NO	N	0	0	10	30	0	30	0	0		100	70
4/08/3-74	0.003	F	50	N	0	0	10	30	30	30	0	0	0.11	100	100
4/08/3-75	0.002	M	NO	S	0	0	10	30	0	30	0	30	0.05	67	100
4/08/3-76	0.002	F	50	S	0	0	10	30	30	30	0	30	0.09	67	130
4/08/3-77	0.002	F	50	S	0	0	0	30	0	30	0	30	0.14	100	90
4/08/3-78	N/A	F	50	N	0	0	10	30	0	30	0	0		100	70
4/08/3-79	0.002	F	NO	N	0	0	10	30	0	30	0	0	0.04	100	70
4/08/3-80	0.002	F	SLIGHT	N	0	0	10	30	0	0	0	0	0.07	67	40
4/08/3-81	N/A	F	50	S	0	0	0	30	0	30		30		100	90
4/08/3-82	0.001	M	SLIGHT	S	0	0	10	30	10	0	0	30	0.05	67	80
4/08/3-83	0.001	F	NO	N	0	0	10	30	0	0	0	0	0.04	100	40
4/08/3-84	<0.001	M	SLIGHT	S	0	0	10	30	0	30	0	30		67	100
4/08/3-85	N/A	F	50	S	0	0	10	30	0	30	0	30		67	100
4/08/3-86	0.002	M	COMP	N	0	0	10	30	10	30	0	0	0.06	67	80
4/08/3-87	0.002	F	COMP	S	0	0	10	30	0	30	0	30	0.07	67	100
4/08/3-88	0.001	M	SLIGHT	S	0	30	20	30	10	0	0	30	0.06	67	120
4/08/3-89	0.002	M	COMP	S	0	0	10	30	0	30	0	30	0.08	67	100
4/08/3-90	N/A	F	50	N	0	0	0	30	10	30	0	0		67	70
4/08/3-91	N/A	F	SLIGHT	S	0	0	10	30	0	0	0	30		67	70
4/08/3-92	0.004	M	50	N	0	0	30	30	0	30	0	0	0.14	100	90
4/08/3-93	<0.001	M	50	N	0	0	0	30	0	0	0	0		67	30
4/08/3-94	0.004	M	NO	N	0	0	10	30	0	0	0	0	0.17	67	40
4/08/3-95	0.003	F	50	S	0	0	10	30	0	30	0	30	0.11	67	100

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SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
4/08/3-96	0.006	M	SLIGHT	N	0	0	10	30	0	30	30	0	0.27	67	100
4/08/3-97	<0.001	M	SLIGHT	N	0	0	10	30	0	0	0	0		67	40
4/08/3-98	<0.001	F	SLIGHT	S	0	0	10	30	0	30	0	30		67	100
4/08/3-99	<0.001	F	SLIGHT	S	0	0	10	30	0	30	0	30		67	100
4/08/4-70	<0.001	M	SLIGHT	N	0	0	30	30	10	0	0	0		100	70
4/08/4-71	N/A	M	50	N	0	0	10	30	0	30	0	0		100	70
4/08/4-72	0.002	M	50	N	0	0	10	0	0	0	0	0	0.16	67	10
4/08/4-73	N/A	M	SLIGHT	S	0	0	10	30	0	0	0	30		100	70
4/08/4-74	0.004	M	50	S	0	0	0	30	0	0	0	30	0.19	67	60
4/08/4-75	<0.001	F	50	S	0	0	10	30	0	0	0	30		67	70
4/08/4-76	<0.001	M	50	N	0	0	10	30	0	0	0	0		67	40
4/08/4-77	<0.001	F	NO	S	0	0	10	30	0	0	0	30		67	70
4/08/4-78	N/A	F	SLIGHT	S	0	0	10	30	0	0	0	30		67	70
4/08/4-79	0.003	M	NO	S	0	0	30	30	10	0	0	30	0.21	67	100
4/08/4-80	0.001	M	SLIGHT	N	0	0	10	30	0	0	0	0	0.05	67	40
4/08/4-81	0.003	M	NO	N	0	0	0	30	30	0	0	0	0.17	67	60
4/08/4-82	<0.001	M	NO	N	0	0	10	30	0	0	0	0		100	40
4/08/4-83	<0.001	F	COMP	N	0	0	10	30	0	0	0	0		100	40
4/08/4-84	<0.001	F	SLIGHT	S	0	0	10	30	0	0	0	30		67	70
4/08/4-85	N/A	F	SLIGHT	N	0	0	10	30	0	0	0	0		67	40
4/08/4-86	0.003	M	NO	S	0	0	10	30	0	0	0	30	0.20	67	70
4/08/4-87	0.002	F	SLIGHT	N	0	0	10	30	0	0	0	0	0.16	67	40
4/08/4-88	<0.001	F	50	S	0	0	10	0	30	30	0	30		67	100
4/08/4-89	<0.001	F	SLIGHT	N	0	0	10	0	0	0	0	0		67	10
4/08/4-90	0.001	M	50	N	0	0	10	30	0	0	0	0	0.06	67	40
4/08/4-91	N/A	M	SLIGHT	N	0	0	10	30	0	30	0	0		100	70
4/08/4-92	N/A	M	NO	S	0	0	10	0	0	30	0	30		67	70
4/08/4-93	<0.001	F	SLIGHT	N	0	0	10	30	0	0	0	0		67	40
4/08/4-94	0.003	M	SLIGHT	N	0	0	10	0	0	0	0	0	0.10	67	10
4/08/4-95	<0.001	F	SLIGHT	N	0	0	10	30	0	0	0	0		67	40
4/08/4-96	<0.001	M	SLIGHT	N	0	0	10	30	0	0	0	0		67	40
4/08/4-97	<0.001	F	SLIGHT	N	0	0	10	0	0	0	0	0		67	10
4/08/4-98	<0.001	F	NO	N	0	0	10	30	0	30	0	0		100	70
4/08/4-99	<0.001	F	NO	N	0	0	10	0	0	0	0	0		100	10
4/08/6-70	<0.001	M	NO	S	0	0	10	30	0	0	0	30		67	70
4/08/6-71	0.004	F	NO	N	0	0	10	0	0	0	0	0	0.16	100	10
4/08/6-72	N/A	F	NO	OT	0	0	10	0	0	0	0	30		67	40
4/08/6-73	N/A	F	NO	N	0	0	0	0	0	0	0	0		67	0
4/08/6-74	N/A	F	NO	N	0	0	10	0	0	0	0	0		100	10
4/08/6-75	0.003	F	NO	N	0	0	10	0	0	0	0	0	0.14	67	10
4/08/6-76	0.001	F	NO P	N	0	0	10	0	30	0	0	0	0.05	100	40
4/08/6-77	0.001	F	SLIGHT	N	0	0	10	30	0	0	0	0	0.04	100	40
4/08/6-78	0.003	F	COMP	N	0	0	10	0	0	30	0	0	0.06	67	40
4/08/6-79	N/A	F	NO	N	0	0	10	30	0	0	0	0		100	40
4/08/6-80	0.002	M	50	N	0	0	10	30	0	30	0	0	0.08	67	70

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
4/08/6-81	N/A	F	NO	N	0	0	10	30	0	0	0	0		100	40
4/08/6-82	N/A	F	NO	N	0	0	10	30	0	0	0	0		100	40
4/08/6-83	0.002	M	NO	S	0	30	10	30	0	30	30	30	0.06	100	160
4/08/6-84	0.003	M	NO	N	0	0	10	0	0	0	0	0	0.12	67	10
7/08/1-70	N/A	M	SLIGHT	S	0	0	10	30	20	0	0	30		67	90
7/08/1-71	N/A	M	SLIGHT	S	0	0	10	0	0	0	0	30		67	40
7/08/1-72	N/A	F	SLIGHT	S	0	0	0	0	0	0	0	30		67	30
7/08/1-73	N/A	M	SLIGHT	S	0	0	20	30	0	0	30	30		67	110
7/08/1-74	N/A	F	50	S	0	0	10	0	0	0	30	30		100	70
7/08/1-75	N/A	F	SLIGHT	S	0	0	10	30	0	0	30	30		67	100
7/08/1-76	N/A	M	SLIGHT	N	0	0	10	30	0	0	0	0		100	40
7/08/1-77	0.005	F	SLIGHT	S	0	0	10	0	0	0	0	30	0.20	67	40
7/08/1-78	0.005	F	NO	N	0	0	10	0	0	0	30	0	0.15	67	40
7/08/1-79	N/A	M	NO	N	0	0	10	0	0	0	0	0		67	10
7/08/1-80	N/A	F	NO	N	0	0	10	0	0	0	0	0		67	10
7/08/1-81	N/A	F	NO	S	0	0	0	0	0	0	0	30		67	30
7/08/1-82	0.008	M	COMP	S	0	0	10	30	0	0	0	30	0.23	33	70
7/08/1-83	N/A	F	SLIGHT	S	0	0	10	30	0	0	0	30		67	70
7/08/1-84	N/A	F	NO	N	0	0	10	0	0	0	0	0		33	10
7/08/1-85	0.008	F	50	N	0	0	10	0	0	0	0	0	0.31	33	10
7/08/1-86	0.005	F	NO	N	0	0	10	0	0	0	0	0	0.26	33	10
7/08/1-87	0.005	F	50	N	0	0	10	30	0	0	0	0	0.31	33	40
7/08/1-88	N/A	F	SLIGHT	S	0	0	10	30	10	30	0	30		67	110
7/08/1-89	N/A	M	SLIGHT	N	0	0	10	30	0	0	0	0		33	40
7/08/1-90	N/A	F	SLIGHT	S	0	0	0	30	0	0	0	30		33	60
7/08/1-91	N/A	M	NO	S	0	0	10	0	0	0	0	30		33	40
7/08/1-92	N/A	F	NO	N	0	0	0	0	0	0	0	0		33	0
7/08/1-93	0.011	M	SLIGHT	N	0	0	10	30	0	0	30	0	0.55	100	70
7/08/1-94	0.008	F	NO	S	0	0	10	30	0	0	0	30	0.36	33	70
7/08/1-95	N/A	F	SLIGHT	N	0	0	10	0	0	0	0	0		67	10
7/08/1-96	0.008	M	SLIGHT	N	0	0	10	0	0	0	0	0	0.35	33	10
7/08/1-97	0.007	F	SLIGHT	N	0	0	10	0	0	0	0	0	0.38	33	10
7/08/1-98	N/A	M	NO	S	0	0	10	0	0	0	0	30		33	40
7/08/1-99	N/A	M	NO	N	0	0	20	0	0	0	0	0		33	20
7/08/2-70	N/A	F	SLIGHT	S	0	0	10	30	0	0	0	30		67	70
7/08/2-71	N/A	F	SLIGHT	S	0	0	10	30	0	30	0	30		67	100
7/08/2-72	N/A	M	50	S	0	0	10	30	0	0	0	30		33	70
7/08/2-73	N/A	F	SLIGHT	S	0	0	10	30	0	0	0	30		67	70
7/08/2-74	N/A	M	SLIGHT	S	0	0	10	0	0	0	0	30		67	40
7/08/2-75	N/A	F	COMP	S	0	0	10	30	0	30	0	30		67	100
7/08/2-76	N/A	M	50	S	0	0	10	30	0	0	0	30		67	70
7/08/2-77	0.008	F	50	S	0	0	0	0	0	30	30	30	0.31	67	90
7/08/2-78	0.007	F	50	S	0	0	10	30	0	0	0	30	0.33	67	70
7/08/2-79	0.001	F	50	S	0	0	10	30	0	0	0	30	0.05	67	70
7/08/2-80	0.008	M	NO	N	0	0	10	30	0	30	30	0	0.36	67	100

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
7/08/2-81	0.009	F	COMP	N	0	0	10	30	0	0	30	0	0.38	67	70
7/08/2-82	N/A	M	SLIGHT	N	0	0	10	30	0	30	0	0		100	70
7/08/2-83	0.004	M	SLIGHT	S	0	0	10	30	0	30	0	30	0.21	33	100
7/08/2-84	N/A	M	NO	N	0	0	10	30	0	0	0	0		33	40
7/08/2-85	N/A	F	SLIGHT	S	0	0	10	30	0	30	0	30		33	100
7/08/2-86	0.005	M	COMP	N	0	0	10	30	0	0	0	0	0.18	33	40
7/08/2-87	N/A	M	SLIGHT	S	0	0	10	30	10	0	0	30		67	80
7/08/2-88	<0.001	F	50	N	0	0	10	30	0	0	0	0		100	40
7/08/2-89	0.008	F	NO	N	0	0	10	30	0	0	30	0	0.34	33	70
7/08/2-90	N/A	F	NO	N	0	0	0	30	0	0	0	0		100	30
7/08/2-91	0.009	M	50	N	0	0	10	30	0	0	30	0	0.48	100	70
7/08/2-92	0.009	F	SLIGHT	N	0	0	0	30	0	0	30	0	0.38	100	60
7/08/2-93	0.003	F	SLIGHT	S	0	0	10	30	0	0	0	30	0.12	33	70
7/08/2-94	N/A	M	COMP	S	0	0	20	30	0	30	0	30		33	110
7/08/2-95	0.004	F	NO	N	0	0	10	30	0	0	0	0	0.21	33	40
7/08/3-70	N/A	F	SLIGHT	S	0	0	0	30	10	0	0	30		67	70
7/08/3-71	N/A	F	50	S	0	0	10	30	0	30	0	30		67	100
7/08/3-72	N/A	F	50	S	0	0	10	30	0	30	0	30		67	100
7/08/3-73	N/A	F	COMP	S	0	0	10	0	10	0	0	30		67	50
7/08/3-74	N/A	F	50	S	0	0	10	30	0	30	30	30		100	130
7/08/3-75	N/A	F	COMP	S	0	0	10	30	0	30	0	30		67	100
7/08/4-70	N/A	F	SLIGHT	N	0	30	10	30	10	0	0	0		100	80
7/08/4-71	N/A	F	50	N	0	0	10	30	0	0	0	0		100	40
7/08/4-72	N/A	M	SLIGHT	N	0	0	10	0	0	0	0	0		100	10
7/08/4-73	N/A	F	NO	S	0	0	10	30	10	0	0	30		100	80
7/08/4-74	N/A	M	NO	N	0	30	10	0	0	0	0	0		100	40
7/08/4-75	N/A	M	SLIGHT	S	0	0	10	30	0	0	30	30		100	100
7/08/4-76	N/A	F	NO	N	0	0	10	30	0	0	0	0		100	40
7/08/4-77	N/A	F	50	N	0	0	10	30	0	0	0	0		100	40
7/08/4-78	N/A	I	NO	N	0	0	10	30	0	0	0	0		100	40
7/08/4-79	N/A	M	SLIGHT	N	0	0	10	30	0	0	0	0		100	40
7/08/4-80	N/A	I	NO	N	0	0	10	30	0	0	0	0		100	40
7/08/4-81	0.016	F	NO	N	0	0	10	30	0	0	30	0	0.32	100	70
7/08/4-82	0.006	F	NO	N	0	0	10	30	0	0	0	0	0.28	67	40
7/08/4-83	0.002	F	NO	N	0	0	10	30	0	0	0	0	0.08	67	40

Appendix 2I. Fish Health Assessment Observations for the Rio Grande Silvery Minnow Health Study 2006-2008. [See Table 1 for site information and Appendix 2B for acronyms]

SampleID	Spleen Weight (g)	Gonads	Meserteric Fat (%)	Kidney	Eye Score	Skin Score	Opercle Score	Gill Score	Fin Score	Liver Score	Spleen Score	Kidney Score	Splenosomatic Index	Feeding Index	HAI Score
7/08/4-84	0.004	M	SLIGHT	N	0	0	10	30	0	0	0	0	0.13	100	40
7/08/4-85	0.001	M	NO	S	0	0	10	30	0	0	0	30	0.05	100	70
7/08/4-86	N/A	I	NO	N	0	0	10	30	0	0	0	0		67	40
7/08/4-87	N/A	I	NO	N	0	0	10	30	0	0	0	0		100	40
7/08/4-88	N/A	I	NO	N	0	0	10	30	0	0	0	0		67	40
7/08/4-89	N/A	I	NO	N	0	0	10	30	0	0	0	0		33	40
7/08/5-70	N/A	I	SLIGHT	S	0	0	0	30	0	30	0	30		67	90
7/08/5-71	N/A	I	NO	S	0	0	0	0	0	0	0	30		100	30
7/08/5-72	N/A	I	NO	N	0	0	10	30	0	30	30	0		67	100
7/08/5-73	N/A	I	NO	N	0	0	0	0	0	30	0	0		100	30
7/08/5-74	N/A	I	NO	N	0	0	10	30	0	30	0	0		100	70
7/08/5-75	N/A	I	NO	N	0	0	10	30	0	0	0	0		100	40
7/08/5-76	N/A	I	NO	N	0	0	10	30	0	0	0	0		67	40
7/08/5-77	N/A	I	NO	N	0	0	10	30	0	0	0	0		100	40
7/08/5-78	N/A	I	NO	N	0	0	10	30	0	0	0	0		100	40
7/08/6-70	N/A	I	SLIGHT	N	0	0	10	30	0	30	0	0		67	70
7/08/6-71	N/A	I	SLIGHT	N	0	0	0	0	0	30	0	0		67	30
7/08/6-72	N/A	I	SLIGHT	N	0	0	10	0	0	30	0	0		67	40
7/08/6-73	N/A	I	COMP	N	0	0	10	30	0	30	0	0		67	70
7/08/6-74	N/A	I	COMP	N	0	0	10	30	30	0	0	0		67	70
7/08/6-75	N/A	I	50	N	0	0	0	0	0	30	0	0		67	30
7/08/6-76	N/A	I	50	S	0	30	0	30	0	30	0	30		67	120
7/08/6-77	N/A	I	COMP	S	0	0	10	30	10	30	0	30		100	110
7/08/6-78	N/A	I	50	N	0	0	10	30	0	30	0	0		67	70
7/08/6-79	N/A	I	50	N	0	0	10	30	10	30	0	0		100	80
7/08/6-80	N/A	I	SLIGHT	N	0	0	10	30	0	30	0	0		67	70
7/08/6-81	N/A	I	SLIGHT	S	0	0	0	30	10	30	0	30		67	100
7/08/6-82	N/A	I	50	S	0	0	30	30	0	30	0	30		33	120
7/08/6-83	N/A	I	50	N	0	0	10	30	0	30	0	0		100	70
7/08/6-84	N/A	I	SLIGHT	N	0	0	10	30	10	30	0	0		67	80
7/08/6-85	N/A	I	COMP	N	0	0	10	30	30	30	0	0		100	100
7/08/6-86	N/A	I	SLIGHT	N	0	0	10	30	0	30	0	0		100	70
7/08/6-87	N/A	I	SLIGHT	N	0	0	10	30	0	30	0	0		100	70
7/08/6-88	N/A	I	COMP	S	0	0	0	0	0	30	0	30		67	60
7/08/6-89	N/A	I	SLIGHT	N	0	0	10	30	0	30	0	0		33	70
7/08/6-90	N/A	I	50	S	0	0	10	30	30	30	30	30		33	160
7/08/6-91	N/A	I	50	N	0	0	10	30	0	30	30	0		33	100
7/08/6-92	N/A	I	SLIGHT	N	0	0	10	30	0	30	0	0		33	70
7/08/6-93	N/A	I	SLIGHT	N	0	0	10	30	0	30	30	0		33	100
7/08/6-94	N/A	I	NO	N	0	0	10	30	0	30	0	0		33	70
7/08/6-95	N/A	I	NO	N	0	0	10	30	0	30	0	0		33	70
7/08/6-96	N/A	I	50	N	0	0	10	0	20	30	0	0		67	60
7/08/6-97	N/A	I	NO	N	0	0	10	30	0	30	0	0		67	70
7/08/6-98	N/A	I	NO	S	0	0	10	30	0	30	0	30		67	100
7/08/6-99	N/A	I	SLIGHT	S	0	0	0	30	0	30	0	30		67	90

Plates 1-58. Rio Grande Silvery Minnow during Fish Health Assessments for the Rio Grande Silvery Minnow Health Study. All photography by Anne P. Davis/ USFWS.

July 2006:

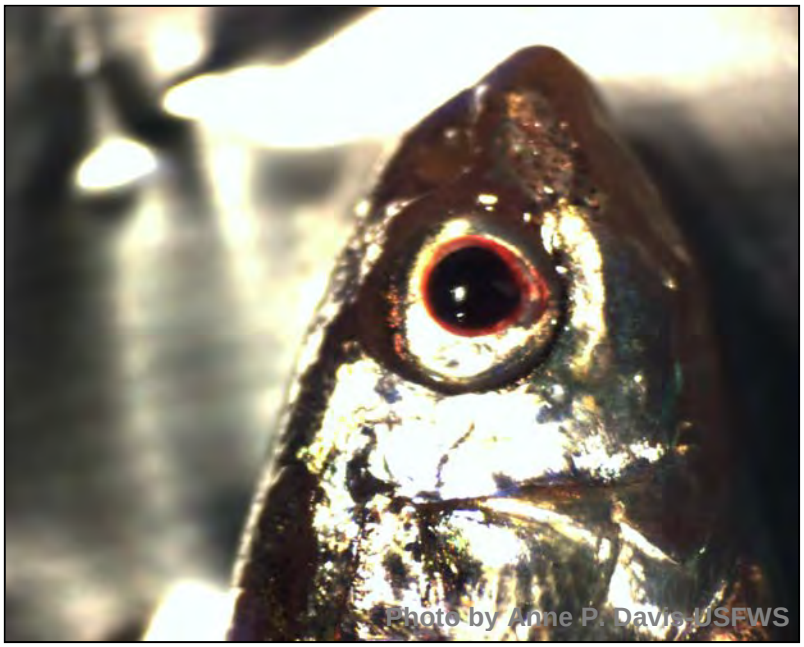


Plate 1. Fish 07/06/2-91. Hemorrhagic eye.

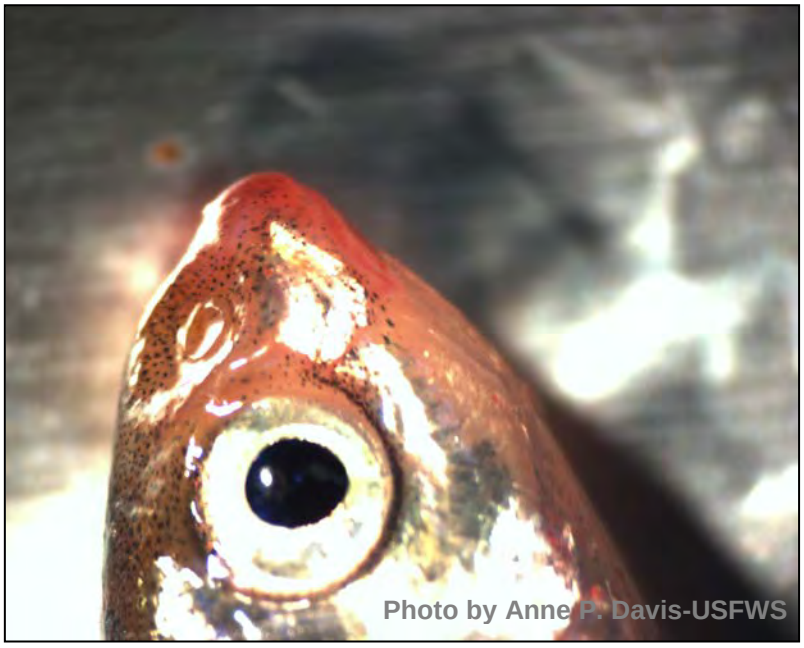


Plate 2. Fish 07/06/1-74. Swollen lip with lesion.



Plate 3. Fish 07/06/1-79. Shortened opercula.



Plate 4. Fish 07/06/5-88. Shortened opercula.



Plate 5. Fish 07/06/4-70. Frayed and deformed gills; reduced size.

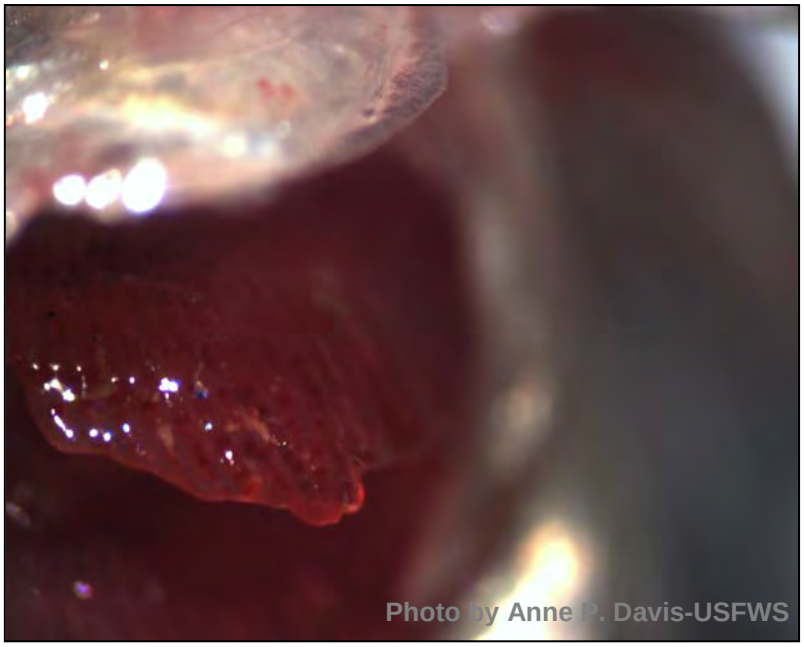


Plate 6. Fish 07/06/2-76. Spots on gills.

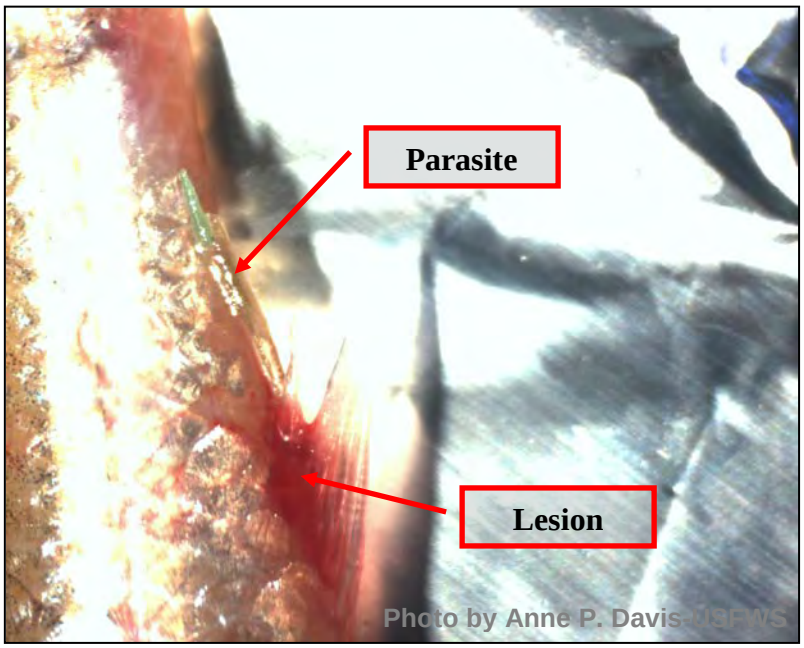


Plate 7. Fish 07/06/4-88. Parasite on dorsal fin; lesion at base of dorsal fin.



Plate 8. Fish 07/06/3-80. Dorsal fin lesion; VIE tag.

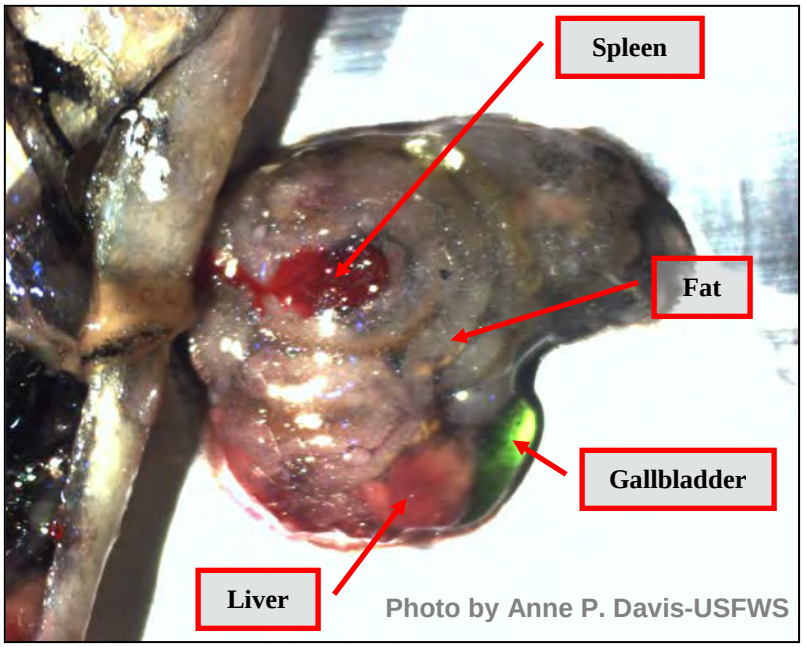


Plate 9. Fish 07/06/5-71. Viscera.



Plate 10. Fish 07/06/5-88. Viscera.



Plate 11. Fish 07/06/5-73. Female gonads.

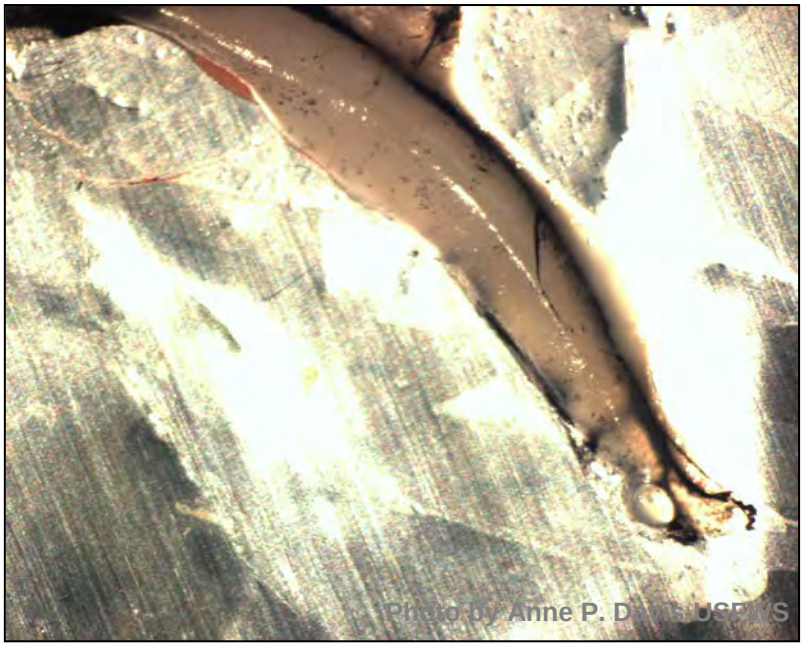


Plate 12. Fish 07/06/3-77. Male gonads.

October 2006:



Plate 13. Fish 10/06/1-87. Severely eroded caudal fin.



Plate 14. Fish 10/06/3-87. Severely eroded caudal fin.



Plate 15. Fish 10/06/4-73. Shortened opercula.



Plate 16. Fish 10/06/4-75. Shortened opercula.

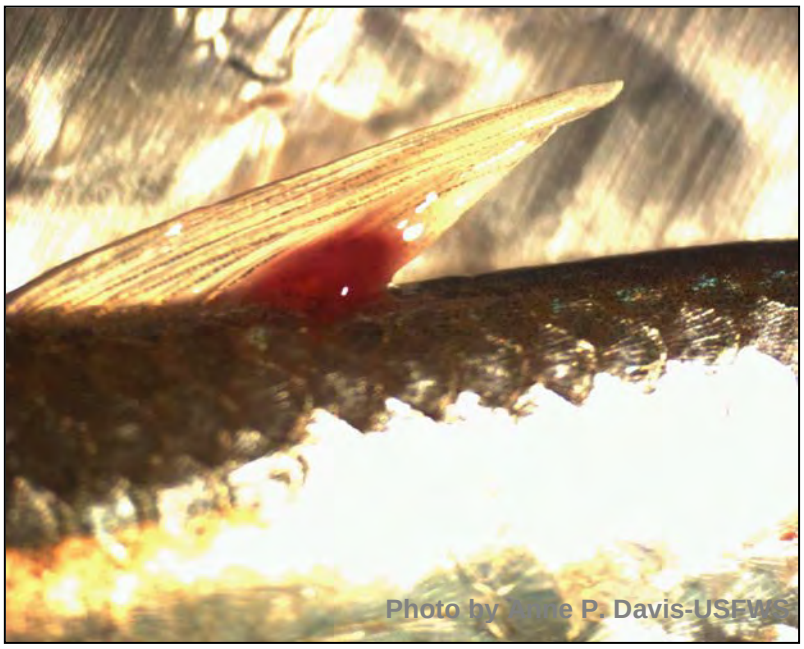


Plate 17. Fish 10/06/4-84. Dorsal fin lesion.



Plate 18. Fish 10/06/5-88. Caudal fin lesion.

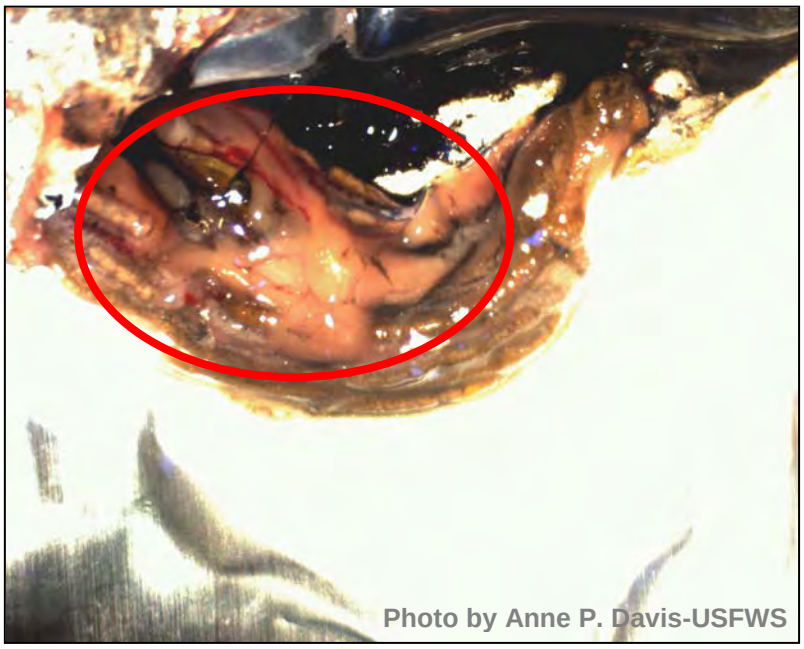


Plate 19. Fish 10/06/2-75. Tan (fatty) liver.

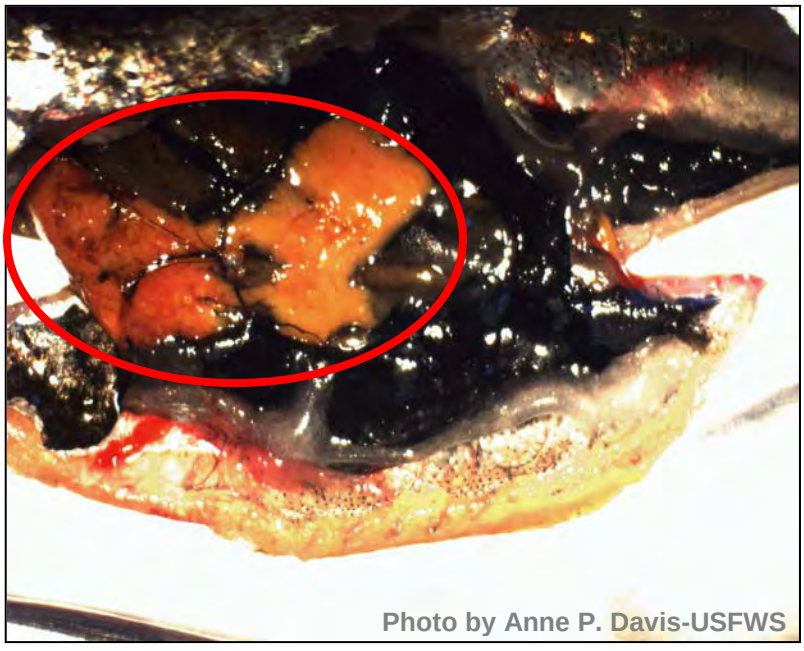


Plate 20. Fish 10/06/4-84. Discolored liver.

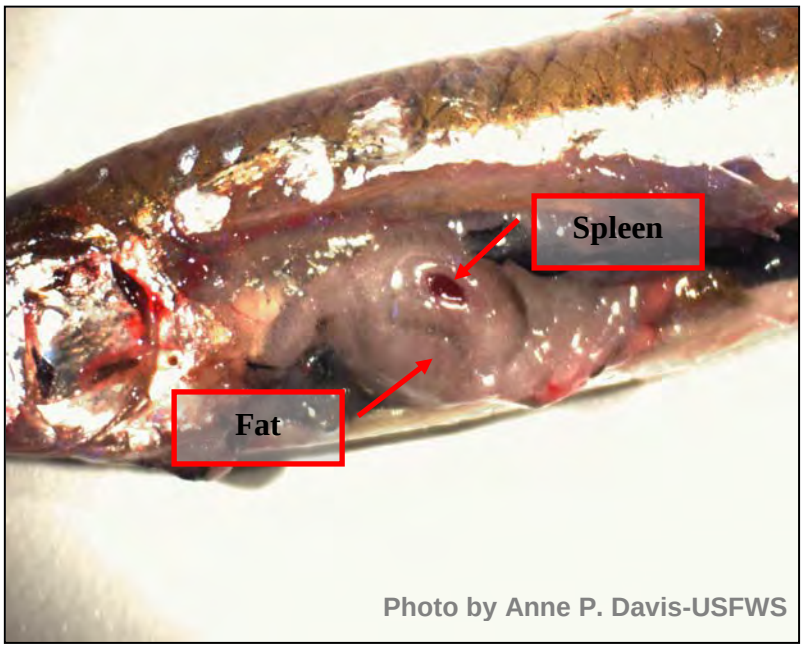


Plate 21. Fish 10/06/3-81. Mesenteric fat content; organs completely encased in fat.

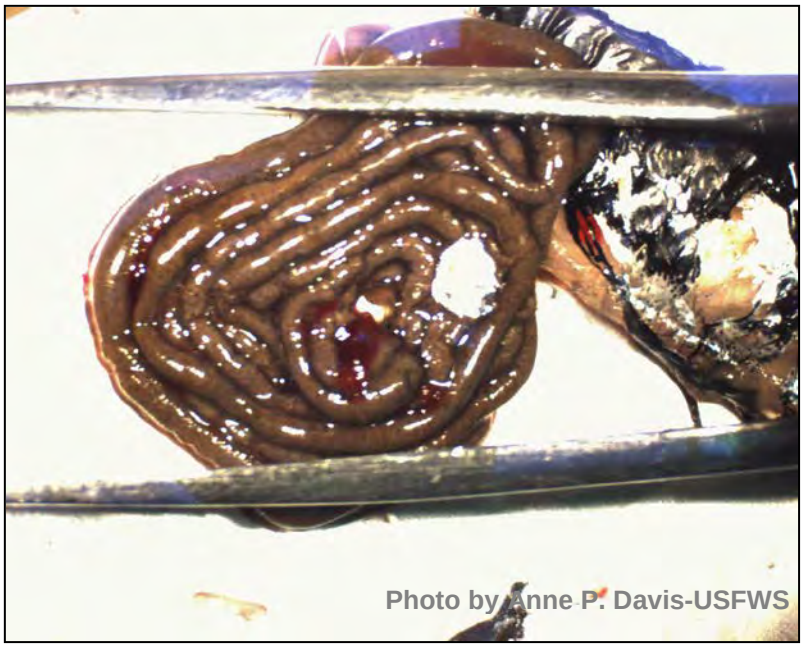


Plate 22. Fish 10/06/1-72. Full gut; no fat content.



Plate 23. Fish 10/06/5-70. Nodular spleen.

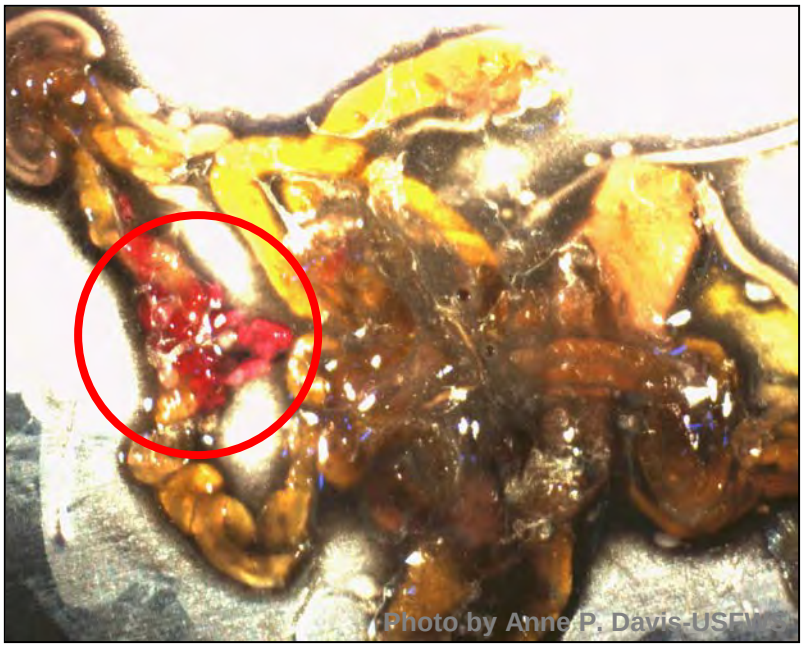


Plate 24. Fish 10/06/4-74. Nodular spleen.

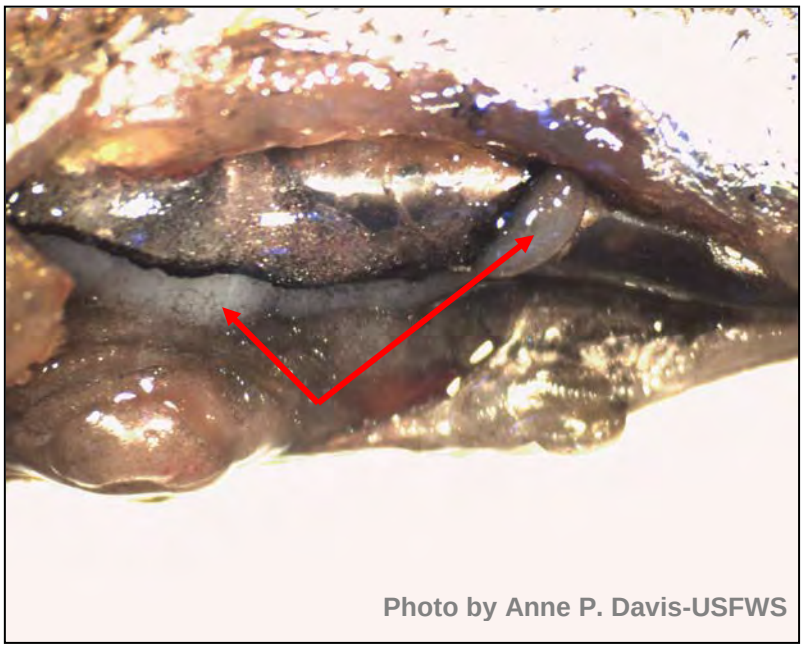


Plate 25. Fish 10/06/1-76. Male gonad tissue.

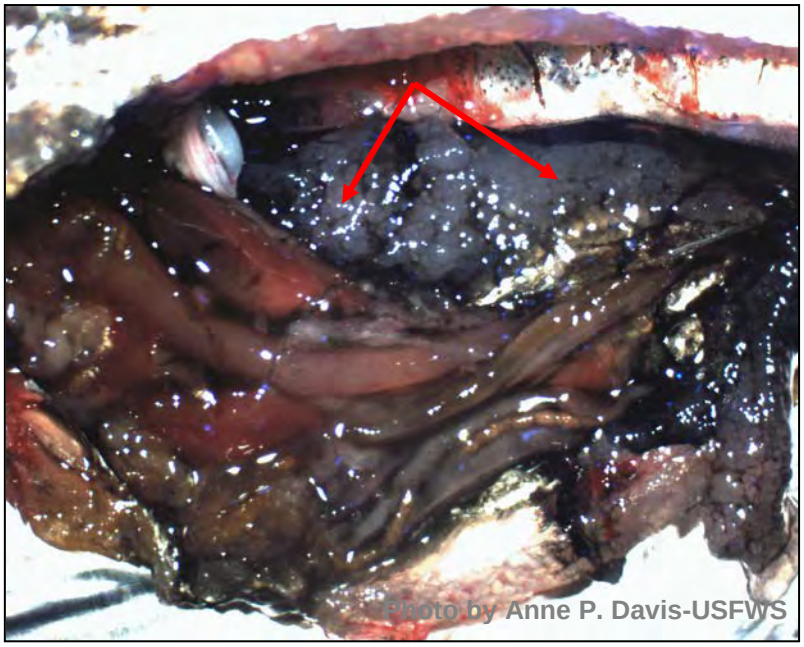


Plate 26. Fish 10/06/3-70. Female gonad tissue.



Plate 27. Fish 10/06/4-74. Swollen kidney.



Plate 28. Fish 10/06/5-76. Swollen kidney.

January 2007:



Plate 29. Fish 1/07/5-92. Severely eroded caudal fin with secondary infection.



Plate 30. Fish 1/07/3-84. Severely eroded caudal fin with secondary infection.

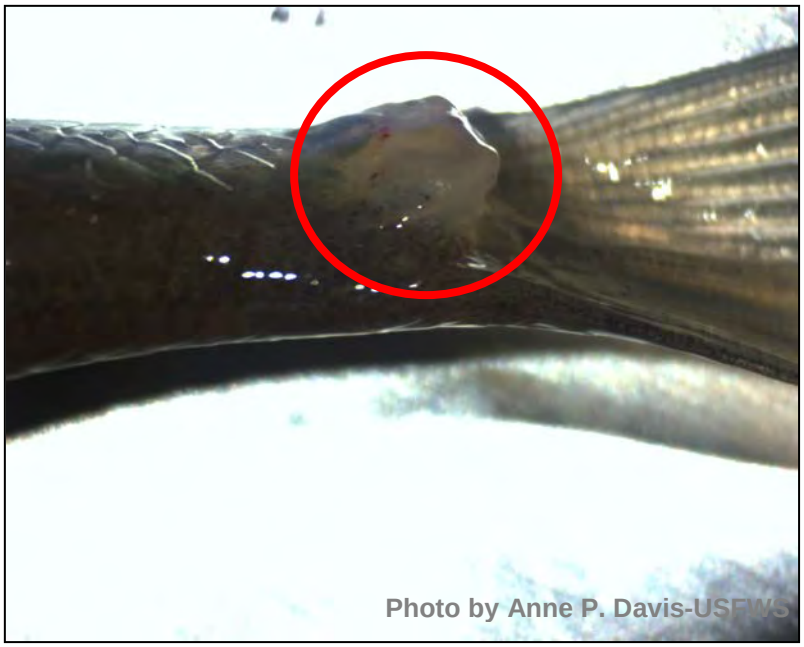


Plate 31. Fish 1/07/3-97. Tumor.

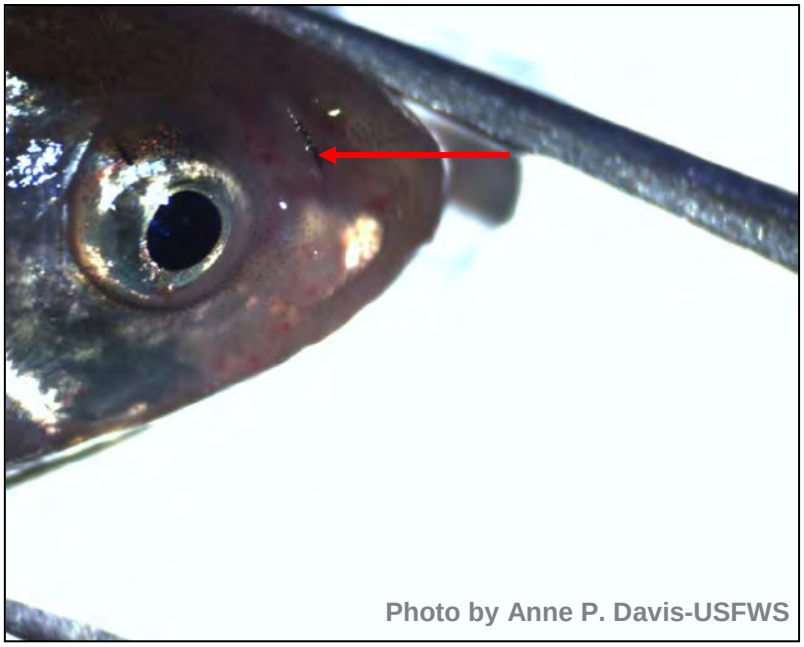


Plate 32. Fish 1/07/6-84. Parasite.



Plate 33. Fish 1/07/6-83. Pectoral fin lesion.



Plate 34. Fish 1/07/6-96. Anal fin lesion.



Plate 35. Fish 1/07/3-70. Shortened opercula.

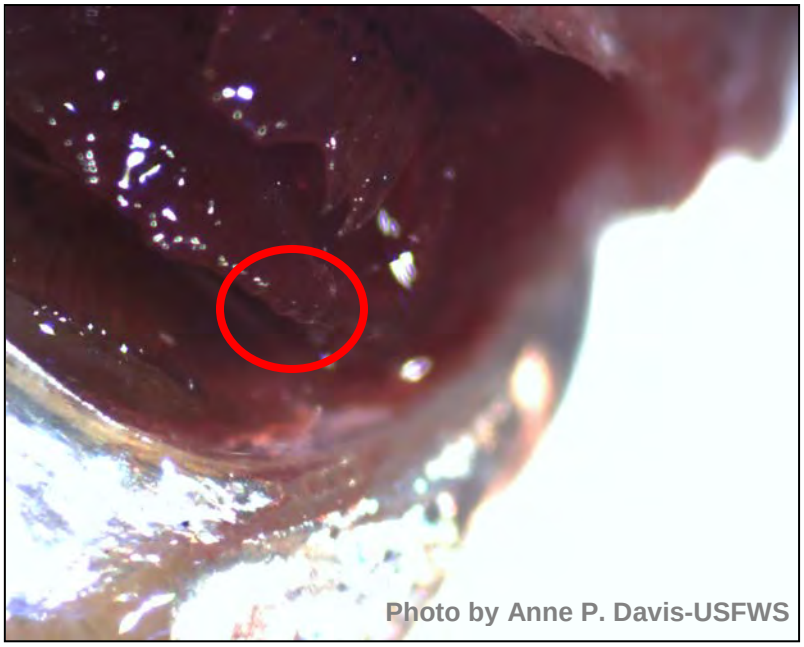


Plate 36. Fish 1/07/5-73. Clubbed gills.



Plate 37. Fish 1/07/5-95. Cysts (parasites) throughout mesentery.

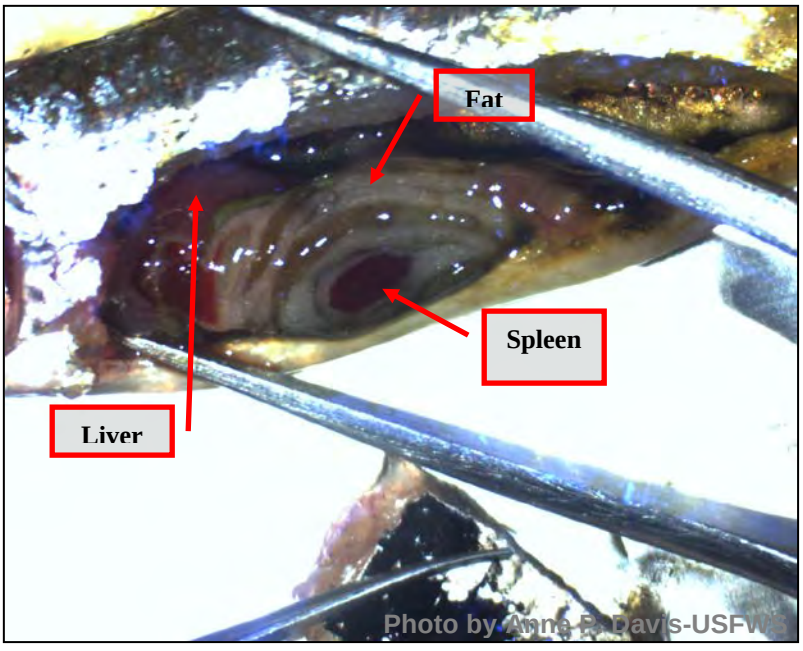


Plate 38. Fish 1/07/6-73. Viscera.



Plate 39. Fish 1/07/5-72. Eggs.

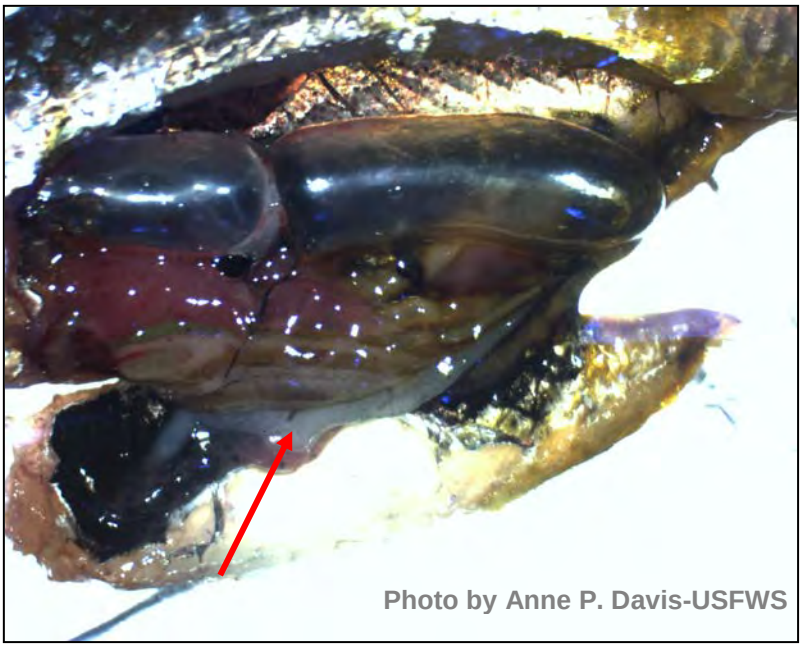


Plate 40. Fish 1/07/6-76. Male gonads.

April 2007:



Plate 41. Fish 4/07/4-83. Severely eroded caudal fin.



Plate 42. Fish 4/07/2-92. Hemorrhagic eye.



Plate 43. Fish 4/07/4-80. Lesion on upper lip.

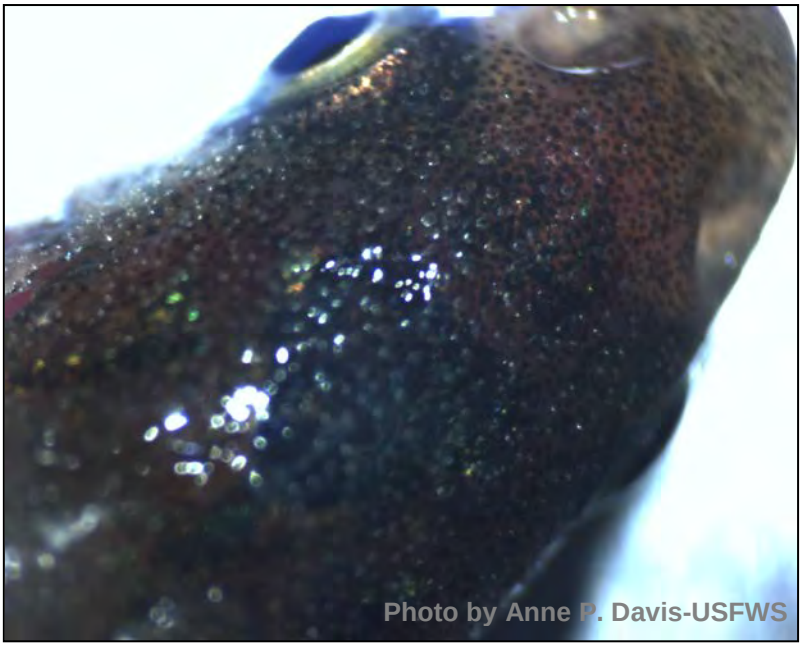


Plate 44. Fish 4/07/3-78. Tubercles.

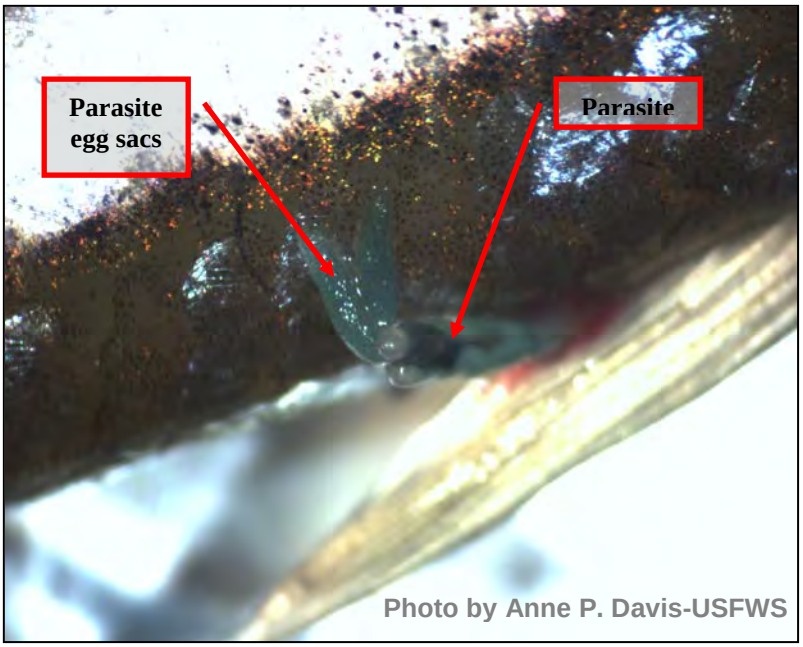


Plate 45. Fish 4/07/4-75. Parasite (with lesion at base of dorsal fin).

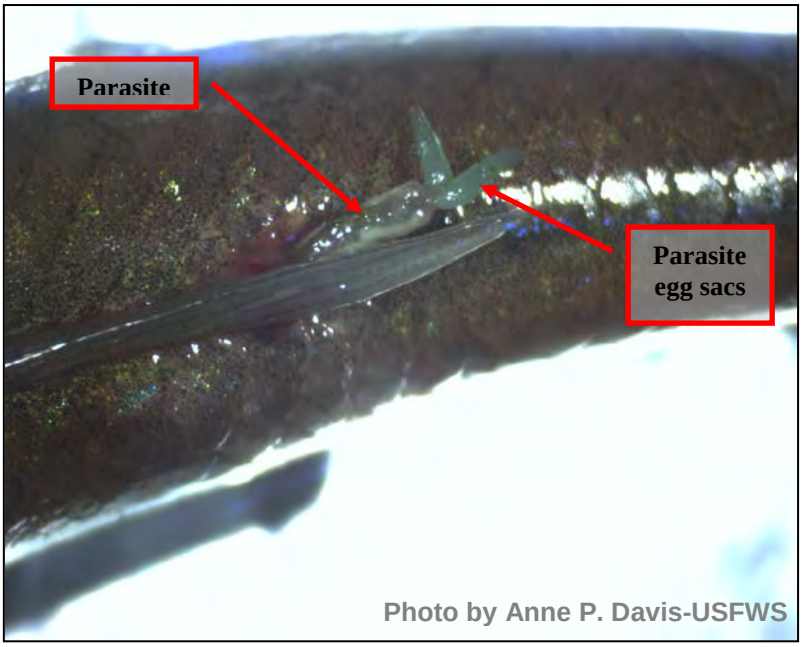


Plate 46. Fish 4/07/4-81. Parasite (with lesion at base of dorsal fin).



Plate 47. Fish 4/07/1-77. Shortened opercula.



Plate 48. Fish 4/07/5-75. Shortened opercula.



Plate 49. Fish 4/07/5-76. Shortened opercula.



Plate 50. Fish 4/07/5-84. Shortened opercula with lesion.

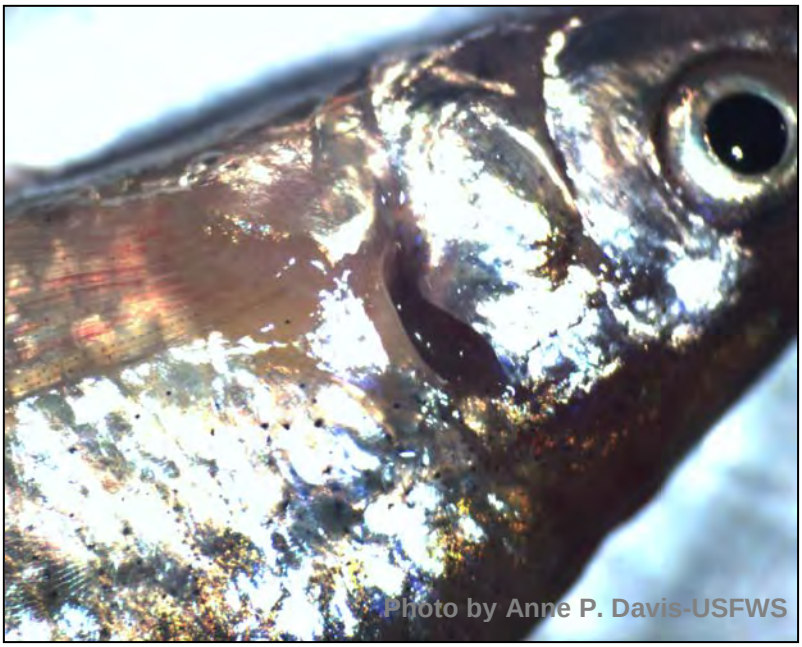


Plate 51. Fish 4/07/5-78. Shortened and deformed opercula.

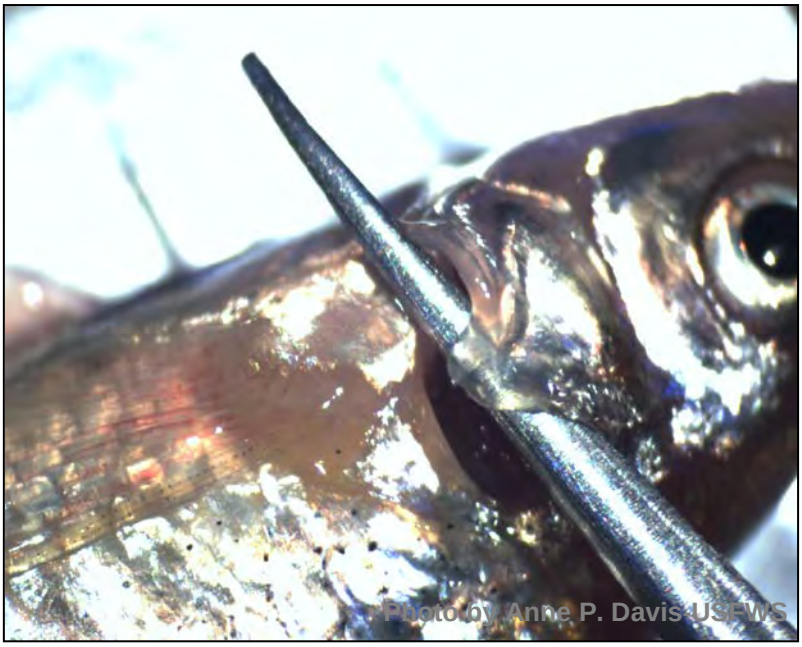


Plate 52. Fish 4/07/5-78. Shortened and deformed opercula detail.

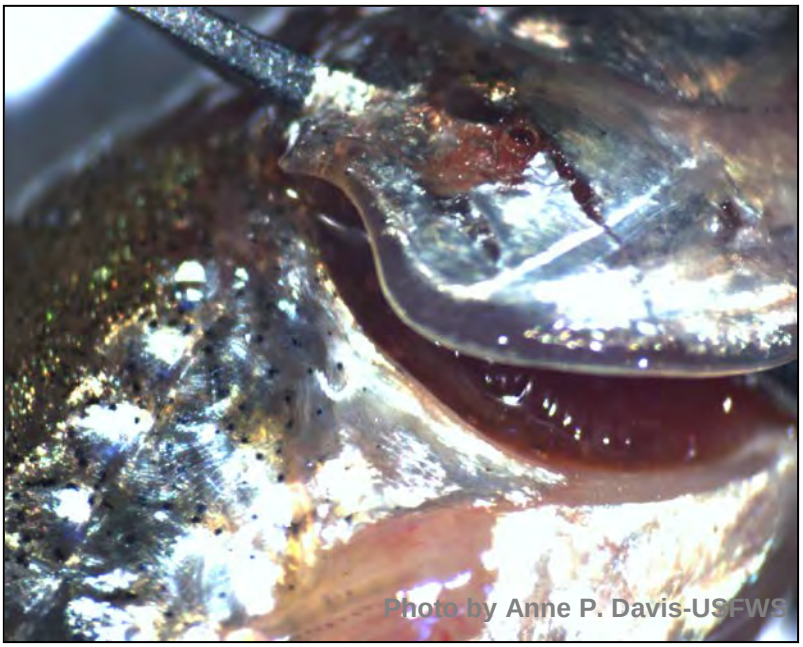


Plate 53. Fish 4/07/5-70. Shortened opercula.

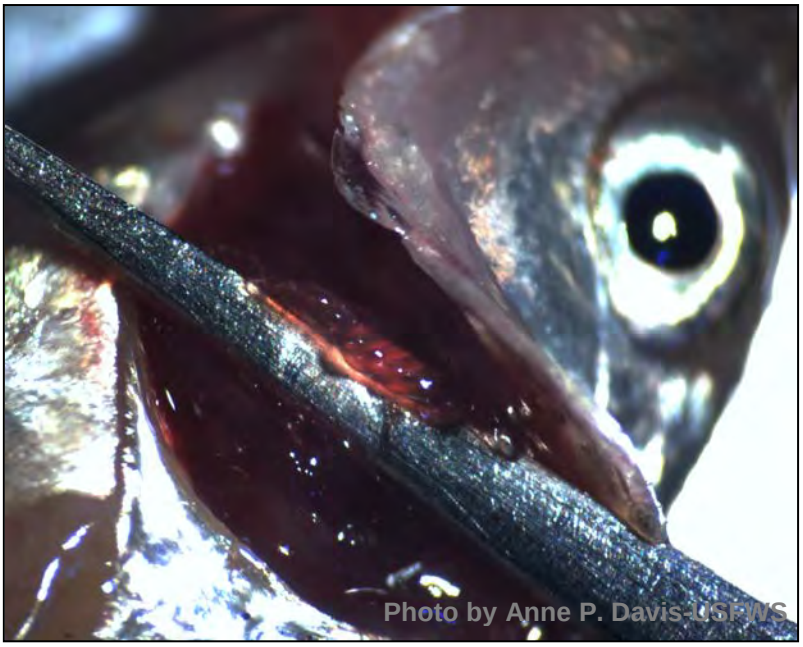


Plate 54. Fish 4/07/5-70. Clubbed gills.



Plate 55. Fish 4/07/3-73. Eggs.



Plate 56. Fish 4/07/5-72. Eggs.

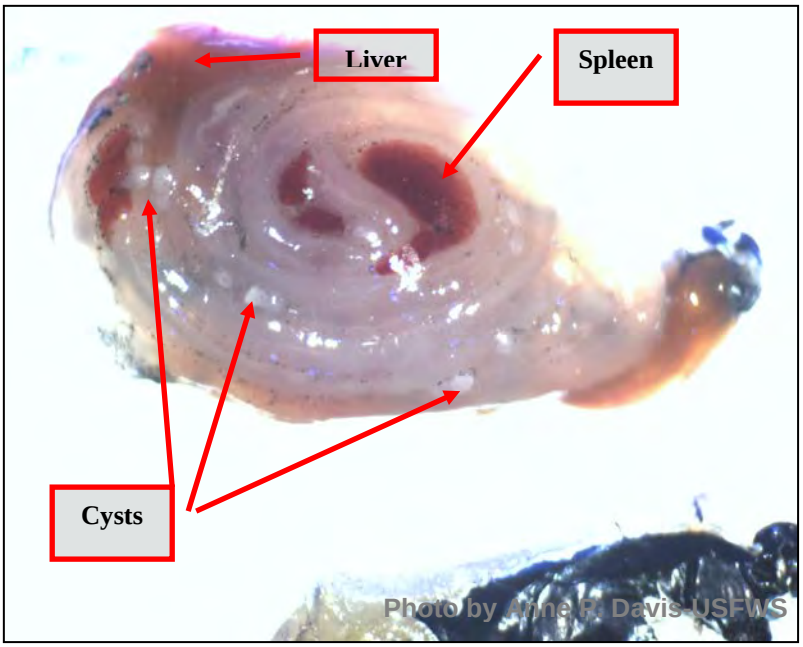


Plate 57. Fish 4/07/5-75. Viscera with cysts (parasites).

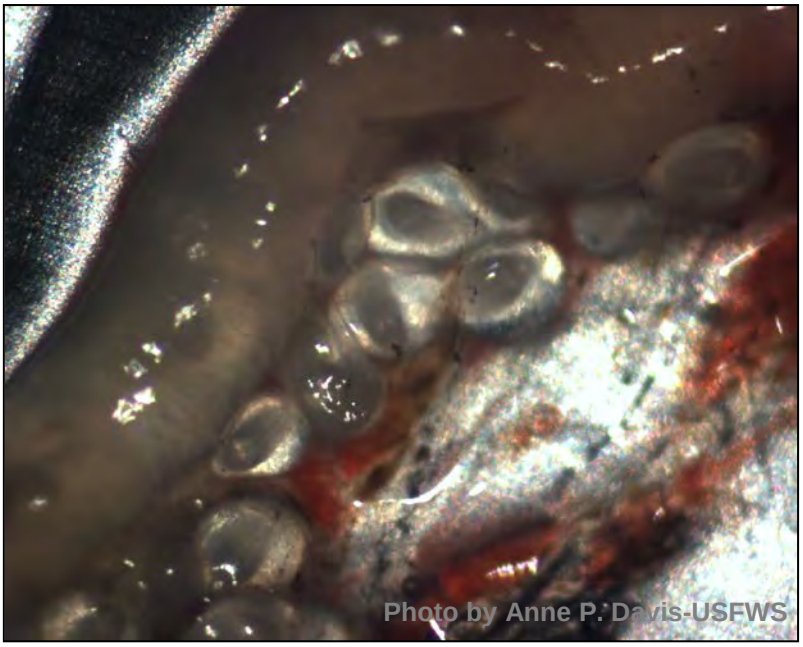


Plate 58. Fish 4/07/5-75. Cysts (parasites) detail.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
1	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
2	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
3	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
4	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
5	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
6	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
7	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
8	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
9	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
10	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
11	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
12	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
13	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
14	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
15	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
16	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
17	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
18	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
19	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
20	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
21	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
22	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
23	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
24	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
25	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
26	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
27	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
28	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
29	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
30	1171	19-Oct-1938	Palmer's Slough, Albuquerque.
1	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
2	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
3	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
4	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
5	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
6	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
7	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
8	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
9	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
10	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
11	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
12	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
13	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
14	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
15	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
16	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
17	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
18	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
19	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
20	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
21	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
22	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
23	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
24	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
25	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
26	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
27	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
28	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
29	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
30	1151	19-Jun-1939	Rio Grande at bridge, Bernardo.
1	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
2	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
3	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
4	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
5	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
6	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
7	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
8	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
9	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
10	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
11	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
12	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
13	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
14	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
15	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
16	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
17	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
18	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
19	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
20	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
21	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
22	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
23	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
24	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
25	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
26	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
27	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
28	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
29	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
30	1120	30-Jul-1940	Rio Felix at Highway 285 near Hagerman.
1	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
2	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
3	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
4	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
5	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
6	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
7	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
8	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
9	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
10	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
11	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
12	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
13	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
14	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
15	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
16	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
17	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
18	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
19	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
20	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
21	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
22	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
23	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
24	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
25	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
26	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
27	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
28	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
29	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
30	1162	14-Sep-1941	Rio Grande below Diversion dam, Albuquerque.
1	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
2	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
3	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
4	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
5	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
6	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
7	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
8	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
9	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
10	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
11	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
12	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
13	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
14	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
15	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
16	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
17	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
18	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
19	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
20	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
21	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
22	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
23	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
24	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
25	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
26	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
27	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
28	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
29	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.
30	1119	24-Jan-1942	Rio Grande on east side, 3 miles above Belen.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
1	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
2	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
3	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
4	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
5	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
6	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
7	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
8	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
9	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
10	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
11	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
12	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
13	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
14	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
15	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
16	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
17	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
18	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
19	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
20	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
21	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
22	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
23	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
24	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
25	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
26	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
27	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
28	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
29	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
30	1155	23-Jun-1943	Rio Grande at bridge, Bernalillo.
1	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
2	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
3	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
4	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
5	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
6	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
7	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
8	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
9	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
10	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
11	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
12	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
13	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
14	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
15	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
16	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
17	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
18	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
19	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
20	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
21	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
22	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
23	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
24	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
25	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
26	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
27	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
28	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
29	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
30	1130	29-Oct-1949	Rio Grande 3 miles below Isleta.
1	1125	30-Jun-1959	Just below Cochiti diversion dam.
2	1125	30-Jun-1959	Just below Cochiti diversion dam.
3	1125	30-Jun-1959	Just below Cochiti diversion dam.
4	1125	30-Jun-1959	Just below Cochiti diversion dam.
5	1125	30-Jun-1959	Just below Cochiti diversion dam.
6	1125	30-Jun-1959	Just below Cochiti diversion dam.
7	1125	30-Jun-1959	Just below Cochiti diversion dam.
8	1125	30-Jun-1959	Just below Cochiti diversion dam.
9	1125	30-Jun-1959	Just below Cochiti diversion dam.
10	1125	30-Jun-1959	Just below Cochiti diversion dam.
11	1125	30-Jun-1959	Just below Cochiti diversion dam.
12	1125	30-Jun-1959	Just below Cochiti diversion dam.
13	1125	30-Jun-1959	Just below Cochiti diversion dam.
12	1125	30-Jun-1959	Just below Cochiti diversion dam.
13	1125	30-Jun-1959	Just below Cochiti diversion dam.
14	1125	30-Jun-1959	Just below Cochiti diversion dam.
15	1125	30-Jun-1959	Just below Cochiti diversion dam.
16	1125	30-Jun-1959	Just below Cochiti diversion dam.
17	1125	30-Jun-1959	Just below Cochiti diversion dam.
18	1125	30-Jun-1959	Just below Cochiti diversion dam.
19	1125	30-Jun-1959	Just below Cochiti diversion dam.
20	1125	30-Jun-1959	Just below Cochiti diversion dam.
21	1125	30-Jun-1959	Just below Cochiti diversion dam.
22	1125	30-Jun-1959	Just below Cochiti diversion dam.
23	1125	30-Jun-1959	Just below Cochiti diversion dam.
24	1125	30-Jun-1959	Just below Cochiti diversion dam.
25	1125	30-Jun-1959	Just below Cochiti diversion dam.
26	1125	30-Jun-1959	Just below Cochiti diversion dam.
27	1125	30-Jun-1959	Just below Cochiti diversion dam.
28	1125	30-Jun-1959	Just below Cochiti diversion dam.
29	1125	30-Jun-1959	Just below Cochiti diversion dam.
30	1125	30-Jun-1959	Just below Cochiti diversion dam.
1	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
2	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
3	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
4	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
5	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
6	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
7	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
8	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
9	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
10	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
11	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
12	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
13	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
14	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
15	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
16	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
17	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
18	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
19	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
20	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
21	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
22	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
23	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
24	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
25	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
26	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
27	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
28	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
29	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
30	3961	6-Jun-1977	Rio Grande, approx. 2 mi NNE Corrales.
1	4338	10-Aug-1978	Rio Grande at Hwy 60.
2	4338	10-Aug-1978	Rio Grande at Hwy 60.
3	4338	10-Aug-1978	Rio Grande at Hwy 60.
4	4338	10-Aug-1978	Rio Grande at Hwy 60.
5	4338	10-Aug-1978	Rio Grande at Hwy 60.
6	4338	10-Aug-1978	Rio Grande at Hwy 60.
7	4338	10-Aug-1978	Rio Grande at Hwy 60.
8	4338	10-Aug-1978	Rio Grande at Hwy 60.
9	4338	10-Aug-1978	Rio Grande at Hwy 60.
10	4338	10-Aug-1978	Rio Grande at Hwy 60.
11	4338	10-Aug-1978	Rio Grande at Hwy 60.
12	4338	10-Aug-1978	Rio Grande at Hwy 60.
13	4338	10-Aug-1978	Rio Grande at Hwy 60.
14	4338	10-Aug-1978	Rio Grande at Hwy 60.
15	4338	10-Aug-1978	Rio Grande at Hwy 60.
16	4338	10-Aug-1978	Rio Grande at Hwy 60.
17	4338	10-Aug-1978	Rio Grande at Hwy 60.
18	4338	10-Aug-1978	Rio Grande at Hwy 60.
19	4338	10-Aug-1978	Rio Grande at Hwy 60.
20	4338	10-Aug-1978	Rio Grande at Hwy 60.
21	4338	10-Aug-1978	Rio Grande at Hwy 60.
22	4338	10-Aug-1978	Rio Grande at Hwy 60.
23	4338	10-Aug-1978	Rio Grande at Hwy 60.
24	4338	10-Aug-1978	Rio Grande at Hwy 60.
25	4338	10-Aug-1978	Rio Grande at Hwy 60.
26	4338	10-Aug-1978	Rio Grande at Hwy 60.
27	4338	10-Aug-1978	Rio Grande at Hwy 60.
28	4338	10-Aug-1978	Rio Grande at Hwy 60.
29	4338	10-Aug-1978	Rio Grande at Hwy 60.
30	4338	10-Aug-1978	Rio Grande at Hwy 60.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
1	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
2	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
3	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
4	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
5	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
6	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
7	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
8	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
9	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
10	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
11	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
12	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
13	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
14	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
15	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
16	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
17	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
18	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
19	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
20	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
21	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
22	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
23	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
24	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
25	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
26	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
27	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
28	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
29	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
30	4384	23-Sep-1978	Rio Grande, at Isleta Diversion Dam.
1	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
2	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
3	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
4	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
5	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
6	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
7	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
8	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
9	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
10	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
11	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
12	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
13	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
14	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
15	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
16	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
17	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
18	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
19	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
20	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
21	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
22	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
23	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
24	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
25	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
26	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
27	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
28	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
29	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
30	5730	8-Oct-1986	Rio Grande, at NM State HWY 6/49 bridge, Los Lunas.
1	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
2	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
3	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
4	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
5	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
6	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
7	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
8	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
9	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
10	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
11	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
12	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
13	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
14	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
15	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
16	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
17	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
18	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
19	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
20	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
21	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
22	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
23	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
24	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
25	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
26	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
27	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
28	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
29	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
30	5934	16-Sep-1987	Rio Grande, directly below San Acacia Diversion Dam, San Acacia.
1	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
2	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
3	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
4	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
5	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
6	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
7	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
8	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
9	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
10	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
11	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
12	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
13	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
14	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
15	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
16	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
17	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
18	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
19	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
20	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
21	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
22	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
23	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
24	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
25	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
26	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
27	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
28	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
29	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
30	11589	14-Aug-1992	Rio Grande, ca. 4.0 miles upstream of the U.S. HWY 380 bridge.
1	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
2	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
3	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
4	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
5	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
6	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
7	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
8	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
9	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
10	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
11	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
12	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
13	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
14	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
15	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
16	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
17	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
18	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
19	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
20	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
21	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
22	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
23	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
24	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
25	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
26	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
27	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
28	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
29	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.
30	13472	14-May-1993	Rio Grande, ca. 4.2 miles upstream of the U.S. HWY 380 bridge.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
1	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
2	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
3	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
4	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
5	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
6	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
7	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
8	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
9	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
10	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
11	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
12	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
13	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
14	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
15	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
16	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
17	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
18	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
19	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
20	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
21	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
22	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
23	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
24	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
25	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
26	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
27	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
28	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
29	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
30	49969	1-May-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
1	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
2	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
3	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
4	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
5	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
6	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
7	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
8	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
9	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
10	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
11	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
12	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
13	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
14	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
15	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
16	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
17	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
18	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
19	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
20	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
21	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
22	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
23	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
24	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
25	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
26	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
27	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
28	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
29	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
30	20396	11-Aug-1994	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
1	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
2	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
3	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
4	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
5	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
6	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
7	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
8	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
9	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
10	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
11	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
12	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
13	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
14	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
15	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
16	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
17	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
18	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
19	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
20	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
21	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
22	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
23	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
24	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
25	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
26	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
27	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
28	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
29	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
30	22671	14-Apr-1995	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
1	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
2	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
3	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
4	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
5	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
6	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
7	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
8	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
9	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
10	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
11	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
12	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
13	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
14	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
15	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
16	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
17	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
18	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
19	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
20	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
21	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
22	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
23	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
24	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
25	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
26	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
27	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
28	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
29	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
30	30032	24-Oct-1995	Rio Grande, at Montano Bridge crossing, Montano Road, Albuquerque.
1	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
2	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
3	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
4	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
5	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
6	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
7	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
8	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
9	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
10	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
11	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
12	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
13	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
14	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
15	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
16	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
17	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
18	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
19	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
20	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
21	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
22	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
23	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
24	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
25	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
26	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
27	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
28	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
29	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.
30	30246	15-May-1996	Rio Grande, directly below Isleta Diversion Dam, Isleta Pueblo.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
1	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
2	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
3	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
4	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
5	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
6	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
7	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
8	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
9	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
10	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
11	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
12	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
13	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
14	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
15	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
16	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
17	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
18	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
19	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
20	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
21	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
22	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
23	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
24	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
25	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
26	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
27	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
28	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
29	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
30	39103	15-Oct-1997	Rio Grande, ca. 4.0 miles downstream of NM State HWY 550 bridge, at Rio Rancho Wastewater Treatment Plant.
1	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
2	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
3	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
4	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
5	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
6	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
7	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
8	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
9	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
10	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
11	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
12	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
13	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
14	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
15	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
16	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
17	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
18	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
19	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
20	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
21	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
22	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
23	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
24	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
25	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
26	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
27	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
28	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
29	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
30	44627	22-Apr-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
1	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
2	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
3	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
4	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
5	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
6	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
7	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
8	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
9	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
10	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
11	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
12	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
13	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
14	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
15	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
16	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
17	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
18	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
19	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
20	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
21	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
22	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
23	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
24	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
25	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
26	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
27	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
28	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
29	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
30	43314	19-Jul-1999	Rio Grande, at U.S. HWY 380 bridge, San Antonio.
1	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
2	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
3	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
4	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
5	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
6	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
7	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
8	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
9	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
10	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Fish Collection Date	Fish Collection Locale Narrative as Described
11	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
12	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
13	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
14	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
15	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
16	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
17	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
18	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
19	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
20	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
21	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
22	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
23	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
24	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
25	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
26	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
27	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
28	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
29	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
30	45271	21-Jun-2000	Rio Grande, east of Socorro, 0.5 mile upstream of low flow conveyance canal bridge at Socorro, east and upstream of Socorro wastewater treatment plant.
1	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
2	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
3	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
4	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
5	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
6	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
7	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
8	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
9	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
10	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
11	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
12	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
13	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
14	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
15	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
16	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
17	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
18	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
19	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
20	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
21	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
22	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
23	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
24	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
25	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
26	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
27	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
28	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
29	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.
30	48229	8-Nov-2001	USFWS Dexter National Fish Hatchery, Dexter.

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
1	1171	1	62	50	2.4	0	0
2	1171	3	66		2.2	0	0
3	1171	5	71	59	3.2	0	0
4	1171	6	96		7.7	0	0
5	1171	7	73	59	3	0	0
6	1171	8	66		1.8	0	0
7	1171	9	75		2.9	0	0
8	1171	10	78		3.1	0	0
9	1171	11	95		7.6	0	0
10	1171	12	33	27	0.3	0	0
11	1171	13	66		2.3	0	0
12	1171	14	36		0.3	0	1
13	1171	15	62		2	0	0
14	1171	16	70		2.6	0	0
15	1171	17	77	67	5.2	0	0
16	1171	18	76	63	3.5	0	0
17	1171	19	93		6	0	0
18	1171	20	60		1.8	0	0
19	1171	21	32	26	0.3	0	0
20	1171	23	62		1.8	0	0
21	1171	24	68	57	3	0	0
22	1171	25	75		3.7	0	0
23	1171	27	74	60	3.3	0	0
24	1171	28	82	67	5.6	0	0
25	1171	29	64	52	2.3	0	0
26	1171	30	61		1.5	0	0
27	1171	31	79		3.6	0	0
28	1171	32	60		1.5	0	0
29	1171	33	76		3.2	0	0
30	1171	34	67		2.5	0	0
1	1151	2	58		1.6	0	0
2	1151	5	58		1.5	1	0
3	1151	7	60		1.6	0	0
4	1151	8	75		2.7	0	0
5	1151	9	70	55	3.2	0	0
6	1151	13	65		2.2	0	0
7	1151	14	63		1.8	0	0
8	1151	17	65		2.3	0	0
9	1151	19	62		2.2	1	0
10	1151	21	58		1.9	0	0
11	1151	23	83		5.7	0	0
12	1151	24	86		6.1	0	0
13	1151	25	58		1.7	0	0
14	1151	27	63		2.9	0	0
15	1151	28	63		2.4	0	0
16	1151	30	54	44	1.6	0	0
17	1151	31	59	47	1.9	1	0
18	1151	33	52		0.9	0	0
19	1151	34	69		3.3	1	0
20	1151	35	68		2.6	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
21	1151	36	62		2.1	0	0
22	1151	37	24	20	0.1	0	0
23	1151	39	70		2.7	0	0
24	1151	41	73		3.1	0	0
25	1151	42	82		5.7	0	0
26	1151	43	60		2	0	0
27	1151	44	67		2.3	0	1
28	1151	45	60		2	0	0
29	1151	47	56		1.5	0	0
30	1151	48	58		1.3	0	0
1	1120	1	57	48	2.1	0	0
2	1120	2	65	56	3.1	0	0
3	1120	3	56	47	2.1	0	0
4	1120	4	63	53	2.5	0	0
5	1120	7	54	45	1.8	0	0
6	1120	8	57	51	1.9	0	0
7	1120	10	64	55	2.2	0	0
8	1120	11	61	53	2.9	0	0
9	1120	13	56	47	2.6	1	0
10	1120	23	61	50	2.5	1	0
11	1120	27	59	50	2.2	0	0
12	1120	29	52	44	1.6	0	1
13	1120	31	57	49	2	0	0
14	1120	32	63	53	2.9	0	0
15	1120	33	59	50	2.5	0	0
16	1120	35	36	31	0.5	0	0
17	1120	36	54	46	2.1	0	0
18	1120	37	70		3.4	0	0
19	1120	41	53	45	1.5	1	0
20	1120	43	58	50	2.6	0	0
21	1120	45	56	48	2.1	0	0
22	1120	46	64	54	2.7	0	0
23	1120	50	59	50	2.1	0	0
24	1120	53	62	53	2.6	0	0
25	1120	55	64		2.4	0	0
26	1120	56	58	51	2.6	0	0
27	1120	57	55	47	2.3	1	0
28	1120	58	55	47	1.9	0	0
29	1120	61	57	49	2.2	1	0
30	1120	62	48	42	1.3	0	0
1	1162	1	69	59	3.4	1	1
2	1162	2	44	38	0.7	1	2
3	1162	3	40		0.4	1	1
4	1162	4	55	50	1.9	1	1
5	1162	5	40	37	0.6	1	2
6	1162	7	49	41	1.1	1	1
7	1162	8	47	44	1.1	2	2
8	1162	9	72	61	3.7	0	1
9	1162	10	46	43	1.1	1	2
10	1162	11	33	27	0.3	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
11	1162	12	54	47	1.6	0	0
12	1162	13	42	34	0.5	0	0
13	1162	15	50	46	1.3	1	1
14	1162	16	59	48	1.7	1	1
15	1162	17	48	37	0.8	1	0
16	1162	19	36	33	0.4	0	#NA
17	1162	20	56	51	1.9	1	0
18	1162	21	32	29	0.3	1	0
19	1162	22	24	23	0.2	0	1
20	1162	23	28	24	0.1	0	0
21	1162	24	41	38.6	0.8	0	0
22	1162	25	44	36	0.6	0	1
23	1162	26	46	39	0.7	1	0
24	1162	27	56	47	1.5	1	2
25	1162	28	44	40	0.9	2	2
26	1162	29	34	29	0.3	1	1
27	1162	30	74	63	3.9	0	0
28	1162	31	75	60	3.8	0	0
29	1162	32	78	64	5	0	1
30	1162	33	42	37	0.7	1	1
1	1119	6	47		0.9	1	0
2	1119	7	57		1.4	0	0
3	1119	13	51		1.1	0	0
4	1119	23	48		0.6	1	0
5	1119	28	49	39	1	1	1
6	1119	33	50		1.1	0	0
7	1119	45	42	34	0.7	0	0
8	1119	50	50		1.1	0	0
9	1119	69	44	35	0.8	1	0
10	1119	71	50		1.1	0	0
11	1119	72	48		0.9	1	0
12	1119	80	41		0.6	0	0
13	1119	81	47		0.8	0	0
14	1119	85	51		1.9	0	0
15	1119	87	44		0.7	0	0
16	1119	94	44		0.6	0	0
17	1119	97	49		1	1	0
18	1119	100	50		0.9	0	0
19	1119	118	46		0.7	0	0
20	1119	120	46		0.9	0	0
21	1119	126	55		1.3	0	0
22	1119	128	47		0.8	0	1
23	1119	131	43		0.6	0	0
24	1119	133	53		1.2	0	0
25	1119	142	43	35	0.7	0	0
26	1119	144	48		0.8	0	0
27	1119	149	46		0.8	0	0
28	1119	154	48	40	1	0	0
29	1119	159	33		0.2	1	0
30	1119	165	49		1	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
1	1155	4		50	2.8	0	0
2	1155	5		42	1.2	0	0
3	1155	6		59	4.2	0	0
4	1155	12		54	3	0	0
5	1155	16		51	2.7	0	0
6	1155	18		54	3.4	0	0
7	1155	20		43	1.6	0	0
8	1155	23		39	1	0	0
9	1155	25		49	2.2	0	0
10	1155	32		44	1.6	0	0
11	1155	33		41	1.3	0	0
12	1155	35		41	1.3	0	0
13	1155	36		44	1.7	0	0
14	1155	37		49	2.3	0	0
15	1155	38		53	1.8	0	0
16	1155	39		54	2.7	0	0
17	1155	40		42	1.3	0	0
18	1155	41		43	1.4	0	0
19	1155	42		36	1	0	0
20	1155	43		48	2.2	0	0
21	1155	49		49	2.2	0	0
22	1155	54		44	1.6	0	0
23	1155	56		49	2	0	0
24	1155	58		41	1.3	0	0
25	1155	59		39	1.1	0	1
26	1155	60		59	4	0	0
27	1155	66		40	1.9	0	0
28	1155	67		47	1.9	0	0
29	1155	70		42	1.4	0	0
30	1155	72		52	3	0	0
1	1130	4		55	2.7	0	0
2	1130	15		54	2.1	1	1
3	1130	36		545	3.3	0	0
4	1130	37		52	2.5	0	0
5	1130	38	66	52	2.4	0	0
6	1130	40		55	3.2	0	0
7	1130	55		52	2.5	1	0
8	1130	64		70	5.9	0	0
9	1130	65		52	2.7	0	0
10	1130	68		51	2.6	0	0
11	1130	69	68	53	2.7	0	0
12	1130	71	75	59	3.7	0	0
13	1130	73	71	57	3.7	0	0
14	1130	78		34	0.6	0	0
15	1130	85	69	55	2.9	0	0
16	1130	102		55	3.3	0	0
17	1130	103		36	0.7	0	0
18	1130	108	69	55	2.9	0	0
19	1130	114	78	62	3.6	0	0
20	1130	122		51	2.2	1	1

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
21	1130	140		55	2.8	0	0
22	1130	143		36	0.9	0	1
23	1130	144	68	54	2.9	0	0
24	1130	149	66	54	2.7	0	0
25	1130	153		50	2.2	0	0
26	1130	164	66	52	2.1	0	1
27	1130	169		75	6.6	0	0
28	1130	171		43	1.3	1	0
29	1130	175		52	2.7	0	0
30	1130	176		55	2.9	0	1
1	1125	9	55		1.3	0	0
2	1125	54	53	41	1.3	0	0
3	1125	61	56		1.7	0	0
4	1125	67	78		4	0	0
5	1125	76	47	38	1	0	0
6	1125	85	45	37	0.9	1	0
7	1125	91	62		2.3	0	0
8	1125	92	46		1	0	0
9	1125	102	40		0.6	1	0
10	1125	104	43	36	0.8	1	0
11	1125	110	46		0.8	0	0
12	1125	119	50		0.9	0	1
13	1125	120	51		1.2	0	0
14	1125	121	44	36	1.1	0	0
15	1125	122	52		1.2	0	0
16	1125	135	47		0.9	0	0
17	1125	144	70		2.6	0	0
18	1125	148	44	34	0.7	0	0
19	1125	149	49		0.9	0	0
20	1125	168	58		2	0	0
21	1125	169	52		1.2	0	0
22	1125	174	53		1.3	0	1
23	1125	189	47		0.9	0	0
24	1125	191	55		1.4	0	0
25	1125	198	57		1.6	1	0
26	1125	200	62		2.2	1	0
27	1125	208	49		1.1	0	0
28	1125	230	55		1.4	0	0
29	1125	239	53		1.3	0	0
30	1125	256	56	46	1.6	0	0
1	3961	1	70		2.3	0	0
2	3961	2	62		2.1	0	0
3	3961	3	88		6.8	0	0
4	3961	4	78		4.3	2	1
5	3961	5	70		3.5	0	1
6	3961	6	70		3	0	0
7	3961	7	77		3.7	0	0
8	3961	8	72		3.3	0	0
9	3961	9	68		3.6	0	0
10	3961	10	82		5.9	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
11	3961	11	82		4.5	0	0
12	3961	12	81		5.3	0	0
13	3961	13	64		2	0	1
14	3961	14	63		2.5	0	0
15	3961	15	76		4.1	0	0
16	3961	16	92		7.5	0	0
17	3961	17	80		4.7	0	0
18	3961	18	66		2.8	0	0
19	3961	19	65		2.9	0	0
20	3961	20	88		61	0	1
21	3961	21	70		3.1	0	1
22	3961	22	86		5.3	0	0
23	3961	23	87		5.3	0	0
24	3961	24	73		3.8	0	0
25	3961	25	85		5.7	0	0
26	3961	26	74		3.8	0	0
27	3961	27	59		1.9	0	0
28	3961	28	80		4.6	0	0
29	3961	29	88		4.8	1	1
30	3961	31	62		2.1	0	1
1	4338	2	42		0.6	0	0
2	4338	3	36		0.3	0	0
3	4338	8	51		1.1	0	1
4	4338	19	38		0.4	0	0
5	4338	34	39		0.4	0	2
6	4338	44	47		0.9	0	1
7	4338	52	25		0.1	0	0
8	4338	56	50		1.1	0	0
9	4338	57	28		0.2	0	0
10	4338	62	30		0.2	0	0
11	4338	77	48		0.9	0	0
12	4338	81	52		1.2	0	0
13	4338	89	46		0.7	0	0
14	4338	93	46		0.7	0	0
15	4338	99	49	40	1.1	0	0
16	4338	123	44	35	0.7	0	1
17	4338	131	49		1.1	0	0
18	4338	137	47	41	1.4	1	0
19	4338	138	39	37	0.7	0	1
20	4338	151	34		0.3	0	0
21	4338	156	49		1	0	0
22	4338	157	30	25	0.3	0	0
23	4338	159	32		0.3	0	0
24	4338	167	49		1.1	0	0
25	4338	173	47		0.9	0	0
26	4338	190	45		0.7	1	0
27	4338	195	39		0.5	0	0
28	4338	196	47		0.9	0	0
29	4338	198	33		0.3	0	0
30	4338	234	32		0.3	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
1	4384	13	64		2.5	0	0
2	4384	24	57		0.9	0	0
3	4384	35	59		2.3	0	0
4	4384	73	62		2.4	1	0
5	4384	78	55		1.5	0	0
6	4384	90	62		2.2	0	1
7	4384	93	62		2.1	0	0
8	4384	95	47		0.9	0	1
9	4384	102	71		4	0	0
10	4384	113	66		2.7	1	0
11	4384	115	70		3.4	1	1
12	4384	121	62		2.4	1	0
13	4384	127	68		3.1	0	0
14	4384	156	60		2.1	0	0
15	4384	163	57		1.7	0	0
16	4384	165	59		1.9	0	1
17	4384	168	49		1.1	0	0
18	4384	189	51		1.3	0	1
19	4384	192	53	44	1.5	0	0
20	4384	213	59		2.1	0	0
21	4384	215	48		0.9	0	0
22	4384	218	61		2.2	1	1
23	4384	222	60		1.8	0	1
24	4384	227	66		3.1	0	0
25	4384	232	48		0.9	0	0
26	4384	238	63		2	0	0
27	4384	239	54		1.6	0	0
28	4384	242	53		1.4	0	1
29	4384	261	64		2.6	1	0
30	4384	263	52		1.2	0	0
1	5730	2	63		2.4	1	1
2	5730	6	62		2.6	1	1
3	5730	8	62		2.3	0	0
4	5730	13	51		1.2	0	1
5	5730	15	56		1.6	0	1
6	5730	17	60		2.4	0	0
7	5730	19	59		2.2	1	1
8	5730	20	61		2.4	1	1
9	5730	21	65		2.9	1	1
10	5730	24	58		1.9	0	1
11	5730	27	65		2.8	0	1
12	5730	32	56		1.6	1	1
13	5730	33	70		3.8	1	0
14	5730	35	59		1.8	0	0
15	5730	39	88		6.8	1	1
16	5730	44	58		2.1	1	0
17	5730	45	63		2.2	1	1
18	5730	46	63	48	2.3	0	0
19	5730	47	43		0.6	0	1
20	5730	48	63		2.5	0	1

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
21	5730	55	58		1.8	1	1
22	5730	60	78		5.6	1	1
23	5730	62	65		2.9	1	1
24	5730	63	61		2.1	1	1
25	5730	64	57		1.8	0	0
26	5730	65	86		7.3	0	0
27	5730	70	60		1.8	1	1
28	5730	75	90		6.7	1	1
29	5730	76	51		1.7	0	1
30	5730	78	50		1.2	0	0
1	5934	23	47	38	0.7	0	1
2	5934	34		55	2.9	1	1
3	5934	184		42	1.1	2	2
4	5934	262		59	3.4	0	0
5	5934	284		59	3.1	2	1
6	5934	340	51	40	1.0	1	1
7	5934	406	55	44	1.1	2	2
8	5934	533	51	40	1.0	0	0
9	5934	563		40	1.0	0	0
10	5934	572		62	3.7	1	1
11	5934	737		36	0.7	0	0
12	5934	805		54	2.5	0	1
13	5934	845	59	46	1.6	1	1
14	5934	858	59	46	1.6	1	1
15	5934	1039		61	3.7	1	1
16	5934	1046		51	2.3	0	1
17	5934	1109		45	1.5	0	0
18	5934	1183		40	1.2	0	0
19	5934	1268		64	3.7	0	0
20	5934	1295		40	1.1	0	0
21	5934	1593		42	1.1	1	1
22	5934	1596		45	1.4	0	1
23	5934	1627		40	1.0	0	0
24	5934	1805	48	38	0.8	1	1
25	5934	1830		36	0.8	1	1
26	5934	1899		39	1.0	0	0
27	5934	1911		56	2.8	1	1
28	5934	2054	51	40	1.0	0	1
29	5934	2112		41	1.1	1	1
30	5934	2248	45	36	0.6	0	0
1	11589	7	40		0.6	0	1
2	11589	8	50		0.8	1	1
3	11589	14	45		0.8	0	0
4	11589	18	37		0.4	0	0
5	11589	20	40		0.5	1	1
6	11589	21	53		1.2	1	0
7	11589	22	45		0.6	1	1
8	11589	32	34		0.3	0	0
9	11589	40	44		0.7	1	1
10	11589	41	43		0.6	0	1

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
11	11589	49	47		0.8	1	1
12	11589	50	46		0.7	1	1
13	11589	61	45		0.8	1	1
14	11589	65	47		0.8	1	1
15	11589	70	43		0.6	1	1
16	11589	74	40	32	0.5	2	1
17	11589	80	45		0.8	0	0
18	11589	82	47		0.8	1	2
19	11589	88	48		0.8	1	1
20	11589	90	51		1.0	1	0
21	11589	91	47		0.9	1	0
22	11589	95	57		1.1	1	1
23	11589	96	45		0.8	0	0
24	11589	112	52		1.0	2	2
25	11589	116	43		0.6	1	1
26	11589	121	40	33	0.7	1	0
27	11589	126	42		0.5	1	0
28	11589	127	44		0.4	1	0
29	11589	128	48		0.7	0	0
30	11589	142	46		0.8	1	0
1	13472	1	76		5.2	0	0
2	13472	2	78		6.0	1	1
3	13472	4	72		4.6	1	0
4	13472	5	73		2.9	2	0
5	13472	6	72		4.2	0	1
6	13472	7	77		4.0	1	0
7	13472	8	71		4.3	0	0
8	13472	9	71		3.9	1	0
9	13472	10	70		3.5	1	1
10	13472	11	68		3.6	0	1
11	13472	12	67		2.6	1	1
12	13472	13	72		4.4	1	0
13	13472	14	69		4.1	1	1
14	13472	15	74		3.7	1	1
15	13472	16	93		7.2	0	0
16	13472	17	79		5.3	0	0
17	13472	18	70		4.4	1	0
18	13472	20	71		3.0	0	0
19	13472	21	70		3.7	0	0
20	13472	27	79		5.4	0	0
21	13472	28	70		3.5	1	0
22	13472	29	73		5.0	1	0
23	13472	31	77		5.1	0	0
24	13472	32	81		7.8	0	0
25	13472	34	71		3.1	1	1
26	13472	35	73		5.0	0	1
27	13472	36	93		6.1	1	1
28	13472	37	56		1.7	1	0
29	13472	39	72		3.6	1	1
30	13472	40	72		4.6	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
1	49969	1	57		1.6	2	2
2	49969	2	67		3.1	0	0
3	49969	3	62		2.4	0	0
4	49969	4	65		2.3	2	2
5	49969	6	76		4.8	0	0
6	49969	7	64		2.3	0	1
7	49969	9	53		1.5	0	0
8	49969	11	60		1.8	0	0
9	49969	13	72		3.2	0	0
10	49969	14	68		3.0	0	0
11	49969	15	75		4.0	0	0
12	49969	19	65		2.4	0	1
13	49969	20	72		3.4	0	0
14	49969	22	69		3.1	1	2
15	49969	23	68		2.8	1	1
16	49969	24	56		1.8	0	1
17	49969	25	67		2.8	1	1
18	49969	26	59		2.3	0	0
19	49969	28	63		2.3	0	0
20	49969	29	59		1.9	0	1
21	49969	31	67		2.6	1	1
22	49969	34	64		2.4	1	2
23	49969	35	65		2.5	0	0
24	49969	37	61		2.6	0	0
25	49969	38	79		4.6	0	0
26	49969	39	60		1.9	1	1
27	49969	40	55		1.7	2	2
28	49969	41	64		2.5	1	2
29	49969	42	53		1.6	0	0
30	49969	43	64		2.7	2	2
1	20396	1	52		1.0	0	0
2	20396	3	79		4.2	0	0
3	20396	4	55		1.2	0	0
4	20396	5	56		1.4	0	0
5	20396	6	42		0.7	0	0
6	20396	8	56		1.3	0	0
7	20396	9	47		1.0	0	1
8	20396	10	52		1.1	0	1
9	20396	11	48		0.8	0	0
10	20396	12	48		0.8	0	0
11	20396	13	81		4.0	0	0
12	20396	14	55		1.3	0	0
13	20396	15	53		1.1	0	0
14	20396	16	82		4.6	0	#NA
15	20396	17	53		1.2	0	1
16	20396	18	86		4.3	0	0
17	20396	19	44		0.9	0	0
18	20396	20	53		1.2	0	0
19	20396	21	80		4.3	0	0
20	20396	22	52		1.1	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
21	20396	23	56		1.4	0	0
22	20396	24	38		0.6	0	0
23	20396	25	54		1.3	0	0
24	20396	26	54		1.4	1	1
25	20396	27	51		1.0	0	0
26	20396	28	44		0.8	0	0
27	20396	29	54		1.1	0	1
28	20396	30	84		4.5	0	0
29	20396	31	78		3.6	0	0
30	20396	32	44		0.9	0	0
1	22671	4	51		1.4	0	1
2	22671	6	61		2.4	0	0
3	22671	8	52		1.5	0	1
4	22671	10	58		1.8	1	1
5	22671	12	56		1.9	0	0
6	22671	19	55		1.7	0	0
7	22671	20	60		2.1	1	1
8	22671	25	51		1.5	0	0
9	22671	27	53		1.6	0	1
10	22671	28	55		1.5	0	0
11	22671	29	62		2.3	0	1
12	22671	32	51		1.1	0	0
13	22671	33	51		1.8	0	0
14	22671	34	54		1.9	1	0
15	22671	38	55		1.7	0	1
16	22671	39	53		1.4	0	0
17	22671	43	62		2.0	1	1
18	22671	44	72		3.0	0	0
19	22671	46	63		2.3	0	1
20	22671	49	54		1.5	0	1
21	22671	50	63		2.2	0	0
22	22671	51	57		1.4	0	0
23	22671	54	51		1.8	0	1
24	22671	59	64		2.7	1	1
25	22671	61	54		1.6	0	0
26	22671	62	65		2.6	1	1
27	22671	65	58		2.0	0	0
28	22671	66	54		1.7	1	0
29	22671	67	51		1.1	0	0
30	22671	68	56		1.4	0	0
1	30032	1	63		2.6	0	0
2	30032	2	60		1.8	1	1
3	30032	3	55		1.5	0	1
4	30032	4	59		1.8	2	1
5	30032	5	54		1.5	1	1
6	30032	6	59		1.7	0	1
7	30032	7	62		2.3	0	0
8	30032	8	59		1.8	1	1
9	30032	10	59		1.7	0	1
10	30032	11	61		1.9	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
11	30032	12	65		2.3	0	0
12	30032	13	62		1.9	0	0
13	30032	14	63		2.0	0	0
14	30032	15	58		1.8	1	1
15	30032	16	58		1.9	0	0
16	30032	17	53		1.2	0	0
17	30032	18	62		2.8	0	0
18	30032	19	65		2.2	0	0
19	30032	20	61		2.3	0	0
20	30032	21	71		2.2	0	1
21	30032	23	55		1.5	1	1
22	30032	24	76		4.5	0	0
23	30032	25	63		2.1	0	0
24	30032	26	58		1.6	0	0
25	30032	27	73		4.0	0	0
26	30032	28	55		1.4	0	1
27	30032	29	61		1.8	0	0
28	30032	30	60		1.9	0	0
29	30032	32	57		1.7	0	0
30	30032	33	53		1.1	0	1
1	30246	1	67		3.4	0	0
2	30246	4	73		3.6	0	0
3	30246	5	95		10.7	1	0
4	30246	8	63		2.3	0	0
5	30246	12	73		4	1	0
6	30246	13	73		5	0	0
7	30246	16	72		4	0	0
8	30246	20	73		4.2	0	0
9	30246	22	70		4.6	0	0
10	30246	23	71		3.7	0	0
11	30246	25	69		4.4	0	0
12	30246	26	77		5.6	0	0
13	30246	29	72		4.1	0	0
14	30246	32	72		3.8	0	0
15	30246	41	70		3.6	0	0
16	30246	42	69		3.1	0	0
17	30246	46	68		3.4	0	0
18	30246	47	71		3.4	0	0
19	30246	48	78		5.6	0	0
20	30246	50	66		2.7	0	0
21	30246	55	63		2.9	0	0
22	30246	56	66		2.9	0	0
23	30246	58	76		3	0	0
24	30246	59	68		3.6	0	0
25	30246	62	71		3.7	1	0
26	30246	63	72		4.9	0	0
27	30246	64	71		3.5	0	0
28	30246	66	76		5.5	0	0
29	30246	70	70		4.1	0	0
30	30246	73	76		4.5	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
1	39103	1	65		2.6	0	0
2	39103	3	73		4	0	0
3	39103	4	68		3.3	0	0
4	39103	5	65		2.6	1	0
5	39103	6	72		3.4	0	1
6	39103	9	76		4.6	0	0
7	39103	10	61		2	0	0
8	39103	11	70		3	0	1
9	39103	15	75		3.8	1	1
10	39103	16	72		3.3	0	0
11	39103	17	64		2.5	1	0
12	39103	18	63		2.2	0	0
13	39103	22	66		2.9	0	0
14	39103	23	56		1.7	0	0
15	39103	28	54		1.6	0	0
16	39103	32	72		3.3	1	1
17	39103	33	72		3.3	1	1
18	39103	36	61		2.4	0	0
19	39103	37	72		3.7	0	1
20	39103	38	54		1.3	0	0
21	39103	39	66		2.6	0	0
22	39103	42	71		3.4	0	0
23	39103	45	61		2.2	0	0
24	39103	46	66		3.1	0	0
25	39103	57	64		2.3	1	1
26	39103	59	61		2	1	1
27	39103	63	72		3.6	0	0
28	39103	65	73		3.5	0	1
29	39103	68	66		2.7	0	0
30	39103	69	71		3.5	1	1
1	44627	3		56	3.2	#NA	1
2	44627	17		56	2.8	0	0
3	44627	29		59	2.2	1	1
4	44627	31		63	3.4	0	0
5	44627	34		#NA	#NA	#NA	#NA
6	44627	35		53	2.4	0	1
7	44627	43		56	2.7	0	0
8	44627	44		61	3.8	1	1
9	44627	56		52	2.9	0	0
10	44627	57		55	2.3	1	1
11	44627	62		57	2.4	0	1
12	44627	63		56	3.2	0	0
13	44627	78		60	3.2	1	1
14	44627	88		55	2.9	1	1
15	44627	95		56	2.6	1	0
16	44627	98		52	2.8	0	1
17	44627	107		54	2.8	1	1
18	44627	113		61	3.4	0	1
19	44627	115		48	1.8	1	2
20	44627	130		70	5.7	2	2

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
21	44627	142		52	2.6	1	1
22	44627	156		62	4.2	0	0
23	44627	159		64	4.4	0	1
24	44627	178		64	4.4	2	1
25	44627	183		56	3.3	0	1
26	44627	200		56	2.6	1	1
27	44627	206		57	3.5	0	0
28	44627	212		56	3.1	0	1
29	44627	214		52	2.2	0	0
30	44627	216		58	3.4	2	2
1	43314	4	28		0.1	0	0
2	43314	11	29		0.2	0	0
3	43314	17	32		0.2	1	0
4	43314	20	28		0.2	1	0
5	43314	24	35		0.3	1	0
6	43314	27	35		0.4	0	0
7	43314	29	35		0.3	0	0
8	43314	30	37		0.4	0	1
9	43314	34	30		0.2	0	0
10	43314	35	29		0.2	0	0
11	43314	39	30		0.2	1	0
12	43314	40	31		0.3	0	0
13	43314	42	33		0.3	0	0
14	43314	44	30		0.2	0	0
15	43314	46			0.2	1	0
16	43314	50	32		0.3	0	0
17	43314	52	30		0.2	1	1
18	43314	61	31		0.3	1	1
19	43314	63			0.4	0	0
20	43314	72	29		0.2	0	0
21	43314	78	31		0.2	0	0
22	43314	81	26		0.2	1	0
23	43314	82	31		0.2	0	0
24	43314	91	34		0.3	1	0
25	43314	93			0.2	0	0
26	43314	98	31		0.2	0	0
27	43314	99	29		0.2	1	0
28	43314	103	30		0.2	0	0
29	43314	105	32		0.3	0	0
30	43314	106	26		0.2	0	0
1	45271	1	68		2.9	0	0
2	45271	2	72		3.3	0	0
3	45271	3	67		3	0	0
4	45271	4	65		2.8	0	0
5	45271	5	65		2.3	0	1
6	45271	6	94		7.3	0	0
7	45271	7	64		2.4	0	0
8	45271	8	67		2.9	0	1
9	45271	9	73		3.9	0	0
10	45271	10	64		2.5	0	0

Appendix 2K. Observations of Length (mm), weight (g) and Opercula Shortening in archival Rio Grande silvery minnows from the University of New Mexico Museum of Southwestern Biology.

MSB New Fish Number	MSB Catalog Number	Random Fish Number	Total Length (mm)	Standard Length (mm) (when tail fin degraded)	Mass (g)	Left Opercule (index of shortening)	Right Opercule (index of shortening)
11	45271	11	64		2.4	0	1
12	45271	12	71		3.7	0	0
13	45271	13	66		2.7	0	0
14	45271	14	65		2.8	1	1
15	45271	15	71		3.3	0	0
16	45271	16	68		3	1	1
17	45271	17	67		3	0	0
18	45271	18	60		2.2	0	0
19	45271	19	30		0.3	0	0
20	45271	20	68		2.3	1	1
21	45271	22	65		3	1	1
22	45271	23	64		2.1	0	1
23	45271	24	67		2.9	0	0
24	45271	25	68		3	0	1
25	45271	26	71		3.4	1	0
26	45271	27	60		2.1	1	0
27	45271	28	67		2.9	0	0
28	45271	29	72		4.1	0	0
29	45271	30	69		3.4	1	1
30	45271	31	72		3.7	0	1
1	48229	4	50		1.0	1	1
2	48229	6	25		0.1	0	0
3	48229	11	22		0.1	0	0
4	48229	12	25		0.1	0	0
5	48229	18	26		0.1	0	0
6	48229	20		24	0.2	2	2
7	48229	22	45		0.9	0	1
8	48229	24	28		0.2	1	0
9	48229	25	21		0.1	0	1
10	48229	28	25		0.1	1	1
11	48229	32	27		0.2	0	0
12	48229	33		54	2.3	2	2
13	48229	34	24		0.1	0	0
14	48229	36	26		0.2	1	0
15	48229	43	32		0.3	0	0
16	48229	45	27		0.1	0	0
17	48229	46	29		0.2	2	2
18	48229	49		23	0.2	1	1
19	48229	50	24		0.1	0	0
20	48229	51	25		0.1	0	0
21	48229	56	25		0.1	1	1
22	48229	59	29		0.2	1	0
23	48229	65	27		0.2	1	1
24	48229	66	#NA		#NA	#NA	#NA
25	48229	68	29		0.2	0	1
26	48229	70	24		0.1	2	1
27	48229	71		55	2.4	2	2
28	48229	74	27		0.2	0	0
29	48229	75	25		0.1	1	1
30	48229	77	24		0.2	1	1

Chapter 3: Chemical Residues in Rio Grande Silvery Minnows collected from the Middle Rio Grande, New Mexico, 2006-2008



Joel D. Lusk
Environmental Contaminants Program
U.S. Fish and Wildlife Service
New Mexico Ecological Services Field Office
2105 Osuna Road NE
Albuquerque, New Mexico 87113

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INTRODUCTION

The net accumulation of a chemical by an organism as a result of uptake from all environmental sources is termed bioaccumulation (USEPA 1995). Determining the extent of bioaccumulation in organisms is widely used as a method to monitor and assess pollutant distribution and bioavailability geographically and over time (Crawford and Luoma 1993; Schmitt et al. 1999). Phillips (1980), identified three benefits from using fish and other aquatic organisms in monitoring programs. First, concentrations of contaminants are often greater in tissue than in water and therefore, the probability of detecting trace amounts of contaminants in the environment is increased. Second, resident organisms provide a time-integrated assessment of a contaminant in question. Third, the direct bioavailability of contaminants that accumulate can be measured and temporally and spatially compared.

According to the critical body burden concept of McCarty (1986) and Escher and Hermens (2004), chemicals will have a specific effect (lethal or sublethal) upon fish once they have attained a specific internal tissue concentration. The internal concentration is independent of external influences and mode of exposure (i.e., in water or in the diet) and should occur at the same level regardless of the organism or species used. The objectives of this portion of the Rio Grande Silvery Minnow Health Study were to identify the body burden of chemicals in Rio Grande silvery minnow and review the extent of contamination, evaluate any possible health consequences associated with the concentrations, and provide baseline contaminant data. We analyzed Rio Grande silvery minnow carcasses (*Hybognathus amarus*; silvery minnows) for a variety of inorganic and organic chemicals, as well as lipid and moisture content. Organic chemicals analyzed included aliphatic hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), dioxins and dibenzofurans, polybrominated diphenyl ethers (PBDEs), and a variety of organochlorine insecticides, including 1,1,1-trichloro-2,2-di(4-chlorophenyl)ethane, also known as DDT.

METHODS

Chemical Analyses, Quality Control and Methods of Interpretation of Contaminants in Fish

Lusk (2012) described the methods, dates, and locations of silvery minnow carcasses collected from six sites along the Rio Grande during 2006-2008. Study location and collection sites referred to in this report are described in Table 1 and depicted in Figure 1 and Figure 2. Silvery minnows that were dissected for fish health assessments (Davis and Lusk 2012) or pathogen assessments (Woodland 2012) were wrapped in aluminum foil or placed in polyethylene bags and frozen (4°Centigrade). Later, carcasses were removed from bags and foil and composited by site and date (up to 70 individual fish) in chemically clean jars and shipped frozen to the Service's contract laboratories for a variety of chemical analyses. These carcass composites (i.e., whole body minus the gonads or gills and some body fluids removed during their necropsy) were variously analyzed for 19 elements, methyl mercury, moisture and lipid contents, and 353 organic compounds including a variety of organochlorine (OC) pesticides, PCBs, PBDEs (flame retardants), dioxins, as well as aliphatic and aromatic hydrocarbons. A list of the chemicals and elements analyzed, abbreviations and names used, analytical methods used, and method detection limits for the chemical analyses, are provided in Table 2.

Briefly, silvery minnow carcass composites were homogenized and aliquot samples were digested and extracted for a variety of chemical analyses using gas chromatography, mass spectroscopy, atomic fluorescence or cold-vapor atomic absorption spectroscopy (Trace Element Research Laboratory 2010; Appendix 3A; and, TDI Brooks International, Inc., 2010; Appendix 3B). Percent lipid and percent moisture content were also determined. A single grab sample of water was also collected for analyses, and while the water and its results were not relevant to this study; however, the water sample provided for additional measures of laboratory quality control.

Quality-control measures included the analysis of method and procedural blanks (to measure contamination during sample preparation and analysis and to determine detection limits), duplicate samples (to measure precision), fortified (spiked) samples (to measure matrix interferences), and laboratory standards and certified reference material (to measure accuracy). Contaminants in silvery minnow carcasses are reported as micrograms per gram (µg/g; i.e., approximately parts per million) or micrograms per kilogram (µg/kg; i.e., approximately parts per billion) dry-weight and wet weight-weight concentrations; the latter was calculated from the moisture content of the sample.

Data Treatment and Statistics

Data were imported into spreadsheets (Microsoft Office Excel 2007, Microsoft Corp., Redmond, WA) or imported and analyzed using the statistical software Statistica (version 9.0, StatSoft, Tulsa, OK) or imported into a database using Microsoft Office Access 2007 (Microsoft Corp., Redmond, WA). Prior to final statistical analysis, the assumptions of normality and equal variance were formally tested by the Shapiro-Wilks test and Levene's test, respectively. Data that did not meet these assumptions were transformed to their natural logarithms and retested. If data were normally distributed comparisons were made using a one-way analysis of variance (ANOVA). Post-hoc comparisons between sites were conducted using a students' t-test (Bailey

1981) or Tukey's Honestly Significant Difference (HSD) test (for equal sample sizes) or Tukey-Spjotvoll/Stoline tests (for unequal sample sizes) (Statsoft Inc., 2010). If the natural log-transformation did not satisfy the assumptions, data were transformed to ranks and a Kruskal-Wallis and median test was applied to test the ranks (Statsoft Inc., 2010). Other parametric and nonparametric statistical tests were also employed and are so indicated in the text. For statistical purposes, as well as simplicity, when less than 25 percent of the analytical results were below the laboratory Method Detection Limit (MDL), the censored results were replaced with a value one-half the method detection limit prior to further statistical treatment. All censored data from comparison studies (e.g. Schmitt et al. 1999) were replaced with a value one-half the MDL (when reported) prior to comparison. Analytical results where chemicals were detected less frequently were only briefly summarized and results were provided in the appendices. Statistical significance probability (p) was set at $p < 0.05$ for all tests. Some of the fish tissue contaminant data were reported in either dry weight or wet weight concentrations and were so indicated. To convert dry weight concentrations into wet weight concentrations, the following equation was used:

Wet weight = (dry weight) * (1 - (percent moisture)/100)) Equation 1

Moisture content was determined by both inorganic and organic analytical laboratories. Values of moisture content conducted on same samples by the different laboratories were normalized and averaged. These average moisture contents were reported and evaluated. Only dry weight concentrations were reported by Mora (2001); therefore, a value of 72.1 percent moisture (average was derived using Schmitt et al. 1999) was used in Equation 1 to convert concentrations in lower Rio Grande fish into wet weight.

PCBs are a complex mixture of 209 isomers and congeners with 1 to 10 chlorines attached to the biphenyl structure in various arrangements with congeners identified by a suffix according to the nomenclature systems of Ballschmiter and Zell (1980) and Schultz and Malisch (1983). Aroclors are commercial PCB preparations that were produced up until 1977 by the Monsanto Chemical Company that contained various amounts of chlorine by weight. Total PCBs refers to the sum of the aroclors. Sum total PCBs refers to the summation of all PCB congeners and includes values where one-half the limit of detection (LOD) was substituted for PCB congener data below the LOD regardless of detection frequency. Certain PCB congeners are considered "dioxin-like" as they can have a fraction of the toxicity of dioxin (2,3,7,8-TCDD) and are often modified by their Toxic Equivalent Factors (TEFs; Van den Berg et al. 1998). TEFs from Van den Berg et al. (1998) for PCB congeners were used to calculate Toxicity Equivalents (TEQs) for fish. The TEQ scheme refers only to adverse effects (e.g., cancer) following interactions with the cellular Ah receptors (Wenning et al. 2011). For the purposes of the TEQ calculation, all values for dioxins, dibenzofurans, and PCB congeners below LOD were substituted with a zero.

Interpretation of Chemical Residues

Identification of contaminants of concern in whole body fish collected for this study was accomplished on a site or stream segment basis. Data from two sites each were combined into three groups (upper, middle, and lower) for further analysis at the segment scale. The evaluation methods included a comparison of the concentrations of chemicals in tissues collected from sites

or segments to various concentrations reported in the literature that affect fish (Jarvinen and Ankley 1999; USDI 1998; USACE 2010), to concentrations in fish collected from the Rio Grande or other watersheds (Roy et al. 1992; Simpson and Lusk 2000; Mora 2001; Abeyta and Lusk 2004; Schmitt et al. 2004; Buhl 2011), or to fish collected nationwide (Schmitt et al. 1999).

The significance of the concentrations of chemical contaminants in fish is not always clear, as elevated chemical concentrations are found in apparently healthy individuals. Identifying the presence of a chemical in silvery minnows was not considered sufficient information to conclude that the chemical would produce an adverse effect. The likelihood that a chemical substance in silvery minnows would produce an adverse effect is likely a function of the physical and chemical properties of the substance, the concentration of the chemical in the tissues, and the length of time the fish is exposed to the compound. Because environmental contaminants vary so widely in their potential to produce toxicity, comparison with an average literature-based contaminant-specific concentration was used to reach a determination regarding the potential for contaminant to produce adverse effects or identified the need for more research.

The Environmental Residue-Effects Database (USACE 2010 and references cited therein) were used for the majority tissue residue effects data comparisons. Emphasis was placed on contaminants that were known to pose serious health risks to fish or studies involving freshwater or marine fish in either carcasses or whole body fish in those studies cited in the USACE (2010) database. Those studies indicated concentrations above which a toxic effect due to a contaminant was likely to occur (i.e., adverse effects) including physiological, biochemical, growth, reproductive, and lethal effects. Those study also identify concentrations below which no adverse effects were likely to occur. For those cases where the concentrations in fish associated with adverse effects overlapped those concentrations where no adverse effects were identified, then comparisons were made to the average concentration associated with each type of effect (i.e., adverse or not). Where literature-based adverse effects thresholds were exceeded, then the corresponding adverse effect was further reviewed in relation to silvery minnow health.

Differentiating petrogenic from biogenic compounds in the interpretation of hydrocarbon residues in fish tissues is important. We compared the proportions of odd- and even-numbered long chain hydrocarbons to determine if sources were petrogenic (crude oil, diesel, light oil, etc.) as petrogenic compounds have approximately equal proportions of odd- and even-numbered long chain hydrocarbons (Hall and Coon 1988). We used ratios of pristane and phytane to n-heptadecane and n-octadecane, respectively, that when elevated indicate whether fish were recently or chronically exposed to petroleum compounds (Farrington et al. 1976; Anderson et al. 1978; Hall and Coon 1988).

RESULTS AND DISCUSSION

Quality Control of the Chemical Analyses

The U.S. Fish and Wildlife Service (USFWS) uses several contract laboratories to provide routine chemical analyses of chemical residues in biota and environmental samples (USFWS 2010a). The laboratories that conducted the chemical analyses of silvery minnow carcasses for this study were responsible for establishing the precision and accuracy of their analytical procedures. Quality assurance included cataloging silvery minnow sample collection, storage, and data transfer (Appendix 3C). Quality control procedures included analysis of procedural blanks, duplicate, and spiked samples as well as analysis of standard reference materials for inorganic chemicals (Appendices 3A and 3B). Data from such procedures were evaluated and documented by laboratory chemists and USFWS Analytical Control Facility (USFWS 2010a) and specific examples of quality control review are further described below.

Quality control described below was reviewed for the silvery minnow carcass samples only. Concentrations of mercury in the procedural blanks were slightly above the MDL in fish analyzed and reported by Trace Element Research Laboratory (2010; Appendix 3A). However, the concentrations of mercury detected in the procedural blanks (0.0028 µg/g dry weight) were within a factor of two of the MDL (0.002 µg/g dry weight) and were considered to be within the acceptable control limits. Concentrations of mercury in the procedural blanks were also 100 times less than the average concentration detected in silvery minnows and therefore were considered unlikely to affect interpretation. Concentrations in 10 of 41 duplicate element analyses of fish samples were below the MDL; thus no measure of the method precision was calculated. Quality control of analysis was maintained as the relative percent difference measured for the remaining 31 duplicate analyses averaged 6.1 percent with a range of 0 to 16.8 percent. Percent recovery of 41 spiked element analyses averaged 106 percent recovery with a range of 86 to 127 percent recovery of spiked amounts. Analysis of mercury in standard reference materials was within 87 to 107 percent of certified values, which indicated that mercury was accurately measured. Additional elements were analyzed in standard reference materials, and except for manganese (117 percent) and strontium (70.1 percent), the analysis of standard reference samples were within the acceptable range (80-110 percent) of certified values.

Concentrations of Aroclors (i.e., PCB-1242, PCB-1248, PCB-1254, PCB-1260) and PCB-total were detected in procedural blanks, but results were less than 10 times the MDL and were considered to be within the acceptable control limits (TDI–Brooks International, Inc. 2010; Appendix 3B). Concentrations in 91 of 224 duplicate analyses of fish samples were below the MDL and thus no measure of their method precision was calculated nor statistical analyses were conducted. The relative percent difference measured for the remaining 133 duplicate analyses averaged 6.3 percent with a range of 0 to 43.5 percent. Relatively high duplicate analysis results were found with biphenyl (43.5 percent) and heptachlor epoxide (29.1 percent); without these two duplicate analytes, the range of 131 duplicate analyses averaged 5.9 percent and ranged from 0 to 22.2 percent. Analysis of duplicate moisture content was 0 percent. Analysis of duplicate lipid content ranged from 0.7 to 12.6 percent and averaged 4.8 percent. All spike results for organic chemicals in silvery minnows were within normal limits (60 to 120 percent), except for

endosulfan II, n-heptacosane, and n-pentacosane, where the spike recoveries were low and therefore, the results of these three analytes may be biased low. As endosulfan II was not detected in greater than 75 percent of the samples analyzed, it was not further analyzed. Standard reference materials for organic chemicals were not analyzed as costs of analysis for over 350 organic chemicals in standard reference materials exceeded available funding.

Inorganic Contaminants, Methyl Mercury, and Lipid or Moisture Content

All analytical data on the concentrations of inorganic chemicals, methyl mercury or moisture content in silvery minnows are found in Appendix 3D and selectively summarized in Table 3. Nineteen inorganic contaminants were analyzed in carcass samples (Appendix 3D), however, molybdenum was below the MDL in all samples, and 4 elements (B, Be, Cd, and Cr) were detected in less than 75 percent of the samples analyzed. These 5 elements (B, Be, Cd, Cr, and Mo) were not compared statistically nor evaluated further. Concentrations of methyl mercury (MeHg) were also detected in all silvery minnows analyzed (Table 3). There were insufficient toxicity residue effects data available to assess the effects of iron, magnesium, manganese, and strontium in silvery minnows. The remaining inorganic contaminants in silvery minnows are discussed below. Average concentrations are provided below plus or minus one standard deviation (average±1SD).

A number of metals (Al, Cu, Fe, Mg, Mn, Ni, Pb, V, Zn) appeared to decrease in those fish collected on a downstream basis; however, this trend (or decrease) was not statistically significant (Table 3). Some of the differences in the metal contaminants in silvery minnows (Cu, Fe, Mg, Mn, Ni, Pb, V, and Zn) may partly be attributable to their ingestion of sediment (Buhl 2011). Silvery minnow feeding behavior from sediment substrates could increase their metal uptake by way of gill respiration or through dietary routes (Magaña 2009; Buhl 2011). Several of these elements were reported in underlying parent material (USGS 2008) and also generally decrease in a downstream direction. However, sediment samples reported by NMED (2009) collected near the same sites of fish collection did not show consistent or decreasing trends downstream for a number of elements (Cu, Fe, Mg, Mn, Ni, Pb, V, and Zn). Though three of these elements (As, Fe, and Mg) increased in water samples collected downstream (NMED 2009). Therefore, concentrations of these elements (Cu, Fe, Mg, Mn, Ni, Pb, V, Zn) in silvery minnows may reflect the general elemental composition of the geology around them, or reflect elevated sources, or reflect dietary exposures, which were not quantified by this study. Two elements (Cu and Ni) appeared to be elevated in silvery minnows collected near Site 2 (Table 3), though statistically insignificant in silvery minnows from other sites, this suggested there may be additional sources of copper and nickel near Site 2 as compared with other sites. Several heavy metals (Pb, Zn, Cu, Cr, As, Cd, and Ni) are common pollutants associated with urban stormwater (USEPA 1999), and Site 2 was below stormwater discharges from the Albuquerque urban area.

Aluminum

Aluminum concentrations in silvery minnow carcasses were elevated (82.3±75.0 µg/g wet weight), and although concentrations of aluminum generally decreased downstream, aluminum concentrations were not significantly different by site ($H=10.54$, $p=0.06$). Aluminum concentrations in silvery minnows (Table 4) were similar to aluminum concentrations in a

variety of fish collected from the Rio Grande by Roy et al. (1992; 45.3±60 µg/g wet weight), Mora (2001; 43.9±106.8 µg/g wet weight), or Schmitt et al. (2004; 16.1±11.6 µg/g wet weight), and to silvery minnows analyzed after 26 days accumulation in the Rio Grande (Buhl 2011; 15.1±7 µg/g wet weight). Aluminum concentrations in silvery minnows were similar to those in fish sampled from the San Juan River (Simpson and Lusk 1999; 152±193 µg/g wet weight).

Aluminum concentrations in whole fish associated with adverse effects (USACE 2010; average 32, range 8 to 77 µg/g wet weight) or with no effects (average 11, range 2 to 9 µg/g wet weight) ranged widely for freshwater fish (Cleveland et al. 1991; Handy 1993; Peterson et al. 1989). The majority of aluminum concentrations in silvery minnows were above the average concentration associated with adverse effects (32 µg/g wet weight). Interestingly, Poston (1991) showed no effects on growth, survival, or feeding in Atlantic salmon (*Salmo salar*) fed up to 200 µg/g wet weight dietary aluminum and salmon carcass concentrations reached 6 µg/g wet weight.

Sites that are acidic (i.e., with pH less than 7) and that have elevated aluminum in water can result in adverse effects to plants, invertebrates and fish (Sparling et al. 1997). Aluminum burdens in fish exposed to acidic conditions have been implicated in reduced growth and survival for both brook trout (Smith and Haines 1985) and smallmouth bass (Kane and Rabeni 1987). For example, adverse effects in Atlantic salmon occurred when aluminum concentrations of 20 µg/g wet weight were reached in fish when exposed to aluminum in water at a pH less than 5.0 (Peterson et al. 1989).

Aluminum is only sparingly soluble in water between pH 6 and pH 8 (ATSDR 2008). New Mexico Environment Department (NMED 2009) reported approximately 2 percent of aluminum was dissolved (0.1±0.2 mg/L) in the water column compared to the total concentration of aluminum (5.3±8.0 mg/L) in the Rio Grande. The minimum average pH in this study (Lusk 2012) was often slightly basic (pH>8) and few studies conducted have explored aluminum toxicity to fish in alkaline conditions. Considering that aluminum is often a gill toxicant and damage to the gill is greater in acidic water than in neutral or basic waters (Gensemer and Playle 1999), the toxicity residue relation for aluminum under acidic conditions in toxicity effect studies may not be representative of those under slightly basic conditions found in the Rio Grande.

It is also possible that a portion of the aluminum concentrations measured in silvery minnows may have come from ingested or sorbed sediment. Brumbaugh and Kane (1985) reported that whole-body aluminum concentrations in smallmouth bass (*Micropterus dolomieu*) were higher and more variable in fish analyzed with the gastrointestinal tract intact compared to those with the gut contents removed, presumably because of sediment in the gut.

Aluminum concentrations in silvery minnows as well as in other fish collected from the Rio Grande are at concentrations of concern and exceed adverse effect thresholds reported in literature-based studies associated with acidic conditions. Additional research should be conducted to determine if the elevated aluminum concentrations are associated with adverse effects in silvery minnows.

Arsenic

There was a significant difference in dry weight concentrations of (log transformed) arsenic (ANOVA, $F(5,27) = 4.60$, $p = 0.004$) in silvery minnows collected from among the six sites. Post hoc comparisons (using Tukey HSD test) indicated that average arsenic concentrations were highest in fish collected from Site 1 and Site 2 compared with those from Site 6 (Table 3). Arsenic concentrations in fish tissues often increased proportionately to increased dietary and water exposures and duration (Gilderhus 1966; Rankin and Dixon 1994; Buhl 2002). NMED (2009) reported arsenic dissolved in water samples collected near Site 1 (2.9±0.8 µg/L) and near Site 6 (4.4±1.3 µg/L). Between these two sites the average dissolved (log transformed) arsenic concentrations were statistically different ($t(25)=3.38$, $p=0.002$). Chapin and Dunbar (1994) reported that arsenic in the Rio Grande reflects the contributions of groundwater and the Jemez River, due to inputs of high-arsenic waters from the Jemez volcanic field. NMED (2009) reported arsenic concentrations in sediment samples collected near Site 1 (3.3±1.1 µg/g) or near Site 6 (4.0±2.2 µg/g), and while average arsenic concentrations generally increased downstream, they were not statistically different. This suggested that differential exposure to arsenic in water or sediment from these two sites might not reflect exposure and arsenic accumulation in silvery minnows collected from these two sites. Arsenic in silvery minnows may instead reflect dietary arsenic or other biological factors (Valette-Silver et al. 1999; Dutton and Fisher 2011).

Average arsenic concentrations in silvery minnow carcasses (0.9±0.1 µg/g wet weight, Table 4) were higher than average arsenic concentrations in a variety of fish collected from the Rio Grande by Roy et al. (1992; 0.2±0.5 µg/g wet weight), Abeyta and Lusk (2004; 0.2±0.2 µg/g wet weight), Schmitt et al. (2004; 0.2±0.1 µg/g wet weight), but similar to those in silvery minnows after 26 days accumulation (Buhl 2011; 0.6±0.2 µg/g wet weight). Average arsenic concentrations in silvery minnows were elevated compared to those in fish collected from the San Juan River (Simpson and Lusk 1999; 0.1±0.1 µg/g wet weight) and to those in fish collected nationwide (Schmitt et al. 1999; 0.2±0.3 µg/g wet weight). Depending on the form of arsenic in fish tissue, elevated arsenic in fish tissues from the Rio Grande may be appropriate for fish consumption advisories (Wilcox 1997). However, arsenic concentrations in silvery minnows were not considered high enough to represent a hazard to the fish itself, or piscivorous wildlife (Schmitt et al. 2004). For example, McGreachy and Dixon (1992) suggested a threshold for adverse effects of arsenic in fish occurred when concentrations exceeded 3 to 4 µg/g wet weight. Also, Gilderhus (1966) reported significant abnormal ovary and oocyte development occurred in adult fish at 1.7 µg/g wet weight, growth reduction occurred at 2.2 µg/g wet weight, and mortality occurred at 11.6 µg/g wet weight when compared with control fish. While elevated, arsenic in silvery minnows did not exceed levels of concern and likely reflected dietary sources.

Barium

There was a significant difference in the dry weight concentrations of barium (ANOVA, $F(5,27)=18.97$, $p=<0.05$) in silvery minnows collected from among the six sites. Post hoc comparisons (using Tukey HSD test) indicated that the average barium concentrations were highest at Site 1 and Site 2 and decreased significantly in fish collected downstream (Table 3). NMED (2009) reported barium concentrations in sediment samples collected near the upper sites (174±57 µg/g), near the middle sites (123±49 µg/g), or near the lower sites (170 ±49 µg/g); and

average concentrations were not statistically different. NMED (2009) reported barium concentrations in water samples collected near the upper sites (0.10±0.03 mg/L), near the middle sites (0.13±0.05 mg/L), or near the lower sites (0.18±0.14mg/L); and average concentrations were also not statistically different. Barium concentrations in silvery minnows did not reflect those in water or sediment, and also may reflect dietary concentrations. Barium is accumulated by several algal species, including diatoms and desmids (Havlik et al. 1980; Brook et al. 1988; Sedláček et al.1989). Diatoms are often part of the diet of larval and adult silvery minnows (Shirey 2004; Magaña 2009; USFWS 2010b).

Average barium concentrations in silvery minnows (15.5±4.8 µg/g wet weight,) appeared higher than average barium concentrations in a variety of fish collected from the Rio Grande by Roy et al. (1992; 2.9±2.5 µg/g wet weight,), Mora (2001; 3.5±5.4 µg/g wet weight) and Schmitt et al. (2004; 1.2±0.9 µg/g wet weight), but similar to those in silvery minnows after 26 days accumulation in the Rio Grande (8.7±3.6 µg/g wet weight) as reported by Buhl (2011). Barium concentrations in a variety of fish (other than silvery minnows) collected from the Rio Grande did not appear to differ from those in fish collected from the San Juan River (Simpson and Lusk 1999; 3.5±3.4 µg/g wet weight), from fish collected from the Colorado River (Hinck et al. 2006; 2.5±3.7 µg/g wet weight) or from fish collected nationwide (3.3±6.1 µg/g wet weight). Therefore, barium may also reflect a dietary exposure and accumulation in silvery minnows as compared with accumulation found in other fish collected from the Rio Grande and other watersheds. There were insufficient data available to assess the effects of elevated barium in silvery minnows. Additional research should be conducted to determine if elevated concentrations of barium in silvery minnows are associated with adverse effects.

Copper

Copper concentrations in whole fish associated with adverse effects (average 6.6, range 0.7 to 40 µg/g wet weight) or with no effects (average 5.1, range 0.02 to 16.3 µg/g wet weight) ranged widely and overlaps for freshwater fish (Handy 1992; Bonham et al. 1987; Jarvinen and Ankley 1999; Kamunde et al. 2005; Kolok et al. 2005). The majority of copper concentrations in silvery minnows (1.8±2.5 µg/g wet weight) were below the average concentration associated with adverse effects (6.6 µg/g wet weight). However, several high copper concentrations in silvery minnows collected from Site 1 and Site 2 (8.5-11.8 µg/g wet weight) were above this level of concern. Additional research should be conducted to determine if the elevated concentrations of copper are associated with adverse effects in silvery minnows at these sites.

Lead

Lead concentrations in whole fish associated with adverse effects (average 3.5, range 0.2 to 6.0 µg/g wet weight) or with no effects (average 1.3, range 0.2 to 6.0 µg/g wet weight) overlaps for freshwater fish (Hodson et al. 1978; Weber et al. 1991; Borgman et al. 1993). Lead concentrations in silvery minnows (0.1±0.1 µg/g wet weight) were below the average concentration associated with adverse effects (1.3 µg/g wet weight). However, silvery minnows collected in summer 2006 from Sites 1 through 4 had lead concentrations (>0.2 µg/g wet weight) greater than those found in trout associated with decreased iron concentrations in blood (Hodson et al. 1978). It was unclear why lead was elevated in silvery minnows during summer 2006, or

whether decreased iron may have occurred in silvery minnows that could reduce oxygenation and swimming performance (Hodson et al. 1978). Additional research could be conducted on the physiological effects of episodic or elevated lead concentrations in silvery minnows.

Mercury and Methyl Mercury

Methyl mercury averaged 88 (±10) percent of the total mercury in silvery minnows. While not statistically significant, mercury (Hg and MeHg) in silvery minnows (on a dry weight basis) appeared to increase downstream (Table 3). The highest concentrations of mercury (0.10 µg/g wet weight) were found in silvery minnows collected from Site 6. Wiener and Spry (1996) described concentrations between 0.01 and 0.1 µg/g wet weight as typical in fish collected from environments (without conditions such as low pH or warm temperature) that promote mercury accumulation. Beckvar et al. (2005) reviewed the available residue-effects literature and identified mercury concentrations less than 0.2 µg/g wet weight in whole body fish as protective. No silvery minnows exceeded this level of concern.

Nickel

Nickel concentrations in silvery minnows (range <0.1 to 3.6 µg/g wet weight) were highest in fish collected at Site 1 and Site 2 (Table 3). Few studies have been conducted evaluating the effects of nickel in whole fish (Jarvinen and Ankley 1999), but recently, Lapointe and Couture (2010) reported increased metabolic rates and enzyme activity in larval fathead minnow (*Pimephales promelas*) at whole body nickel concentrations greater than 2.6 µg/g wet weight. That is, elevated nickel exposure and accumulation increased energetic demand and metabolic costs in fathead minnows. While there may be differences between the species life histories, diet, contaminant exposure history, nickel concentrations measured in silvery minnows collected from Site 1 and Site 2 during summer 2006 suggest that they were at concentrations associated with increased metabolic rates in fathead minnows. Additional research should be conducted to determine the effects of elevated nickel concentrations in silvery minnows at upstream sites.

Selenium

While not statistically significant, selenium concentrations (on a dry weight basis) were elevated in silvery minnows collected near Site 5 (Table 3). Site 5 is below the confluence of the Rio Puerco, which drains a watershed that contains selenium-rich soils (Seiler et al. 1999). However, selenium concentrations in silvery minnows were less than the whole-body toxicity threshold of 4 µg/g dry weight advocated by Lemly (1996) and Hamilton (2002, 2003). Concentrations in silvery minnows were also lower than those linked with reduced growth (5.4 to 7.0 µg/g dry weight) in fathead minnows exposed to dietary selenium (Ogle and Knight 1989). Selenium concentrations in silvery minnows (0.5±0.1 µg/g wet weight) were similar to those in fish collected from the Rio Grande reported by Roy et al. (1992; 0.4±0.3 µg/g wet weight), Mora (2001; 0.3±0.2 µg/g wet weight), Abeyta and Lusk (2004; 0.8±0.7 µg/g wet weight), Schmitt et al. (2004; 0.7±0.4 µg/g wet weight), and in silvery minnows after 26 days accumulation (Buhl 2011; 0.8±0.2 µg/g wet weight), or in fish collected nationwide (0.5±0.5 µg/g wet weight).

Vanadium

Vanadium concentrations in silvery minnows ranged from 0.1 to 0.8 µg/g wet weight. No toxic threshold has been proposed for vanadium concentrations in fish, but Hilton and Bettger (1988) reported that a dietary toxic threshold to juvenile rainbow trout (*Oncorhynchus mykiss*). Reduced feeding and growth were seen in trout with carcass concentrations averaging 0.4 µg/g wet weight. At higher concentrations in trout (>5.3 µg/g wet weight), feed avoidance was increased, body weight was reduced, and mortalities were apparent (Hilton and Bettger 1988). Hilton and Bettger (1988) observed that the major physiological effect of vanadium in the trout was increased in vivo lipid oxidation. Silvery minnows from several upstream sites had vanadium concentrations above 0.4 µg/g wet weight when reduced feeding and growth were observed in trout. However, as the physiology of trout, a carnivore, and silvery minnow, an initial herbivore and later omnivore, may substantially differ, and there are few studies with which to compare, additional research should be conducted to determine whether growth or metabolic effects occur in silvery minnows associated with elevated vanadium residues.

Zinc

Average zinc concentrations in silvery minnows (38±6 µg/g wet weight) were similar to those in a variety of fish collected from the Rio Grande and reported by Roy et al. (1992; 33±16 µg/g wet weight), Schmitt et al. (2004; 39±24 µg/g wet weight), and in silvery minnows after 26 days accumulation (Buhl 2011; 50±18 µg/g wet weight), but higher than fish collected from the Rio Grande in Texas (Mora 2001; 13±13 µg/g wet weight). Zinc concentrations in a variety of other fish collected from the Rio Grande were similar to those in fish collected from the San Juan River (Simpson and Lusk 1999; 29±23 µg/g wet weight), in fish collected from the Colorado River (Hinck et al. 2006; 47±31 µg/g wet weight), and in fish collected nationwide (Schmitt et al. 1999; 39±24 µg/g wet weight).

Zinc concentrations in whole fish associated with adverse effects (average 58, range 5 to 220 µg/g wet weight) or with no effects (average 72, range 0.3 to 300 µg/g wet weight) ranged widely and overlapped in both marine and freshwater fish (Spehar 1976; Spehar et al. 1978; Farmer et al. 1979; Pierson 1981; Sherwood et al. 2000; Dube et al. 2005; USACE 2010). No zinc concentrations in silvery minnows were above the average concentration associated with adverse effect (58 µg/g wet weight). However, zinc concentrations in silvery minnows from all sites were higher than that (40 µg/g wet weight) associated with reduced growth in flagfish (*Jordanella floridae*) (Spehar 1976). Additional research should be conducted to determine if elevated concentrations of zinc are associated with reduced growth in silvery minnows.

Lipid and Moisture Content

Lipids are one of the main energy sources in fish. The stored energy available to a fish, as reflected in its body composition and energy reserves, may also influence its survival and reproduction (Breck 2008). Organic chemicals partition primarily into lipids within an organism and lipid content represents the capacity of an animal to accumulate those chemicals (Di Toro et al. 2000) as well as provides some resistance to chemical toxicity (Lassiter and Hallam 1990). However, when lipids are mobilized as an energy source, lipid-soluble chemicals tend to

partition from the lipid reserves into the bloodstream and increase the potential adverse effects on an organism (de Freitas and Norstrom 1974; Paterson et al. 2007). Lipid contents are often used to normalize organic pollutant concentrations, to reduce the variability within and between species and sexes, and normalization improves toxicity relationships for lipid soluble compounds when lipid and contaminant concentrations vary proportionally (Hebert and Keenleyside 1995).

Lipid content of silvery minnows ranged from 4.1 to 10.8 percent and averaged 6.9(±1.4) percent, but did not vary significantly by site or season or sample year (Table 5). However, lipid results may have been confounded by compositing fish of different size classes. Similar lipid content in fish collected from the Rio Grande was reported by Roy et al. (1992; 6.0±3.4 percent) and Schmitt et al. (2004; 4.5±2.9 percent) and in fish collected nationwide (Schmitt et al. 1999; 6.2±4.2 percent).

Moisture content in silvery minnows were not significantly different by site (Table 3). The average moisture content in silvery minnows in this study (71.9±1.9 percent) were similar to those in a variety of fish collected from the Rio Grande by Roy et al. (1992; 73.0±4.9 percent), Schmitt et al. (2004; 72.9±3.0 percent), and silvery minnows after 26 days accumulation (Buhl 2011; 73.0±1.7 percent), or in fish collected nationwide ((Schmitt et al. 1999; 72.1±4.5 percent).

A Pearson product-moment correlation coefficient was computed to assess the relationship between the moisture content and lipid content in silvery minnows. There was a significant negative correlation between the two variables ($r = -0.731$, $n = 27$, $p < 0.05$). This suggests that increases in moisture content are correlated with decreases in lipid content in silvery minnows and vice versa. Therefore, a relationship between lipid content and moisture content was modeled using linear regression analysis to predict lipid content:

Percent Lipid	= 78.6877 - (0.9945 * Percent Moisture)	Equation 2
Percent Moisture	= 45.2892 - (0.5366 * Percent Lipid)	Equation 3

If lipid content and moisture content are related as described by Equation 3, then a lipid content of 3 percent would translate to a moisture content of 78.8 percent; which would likely be the maximum moisture content of healthy silvery minnows. Mortalities occurred when lipid content was 3.2 percent or less in fish (Simpkins et al. 2003). Silvery minnows were not found to have lipid contents less than 3.2 percent.

Aliphatic and Aromatic Hydrocarbons

Analytical data for contaminant concentrations of organic chemicals and lipid content in silvery minnow carcasses are found in Appendix 3E and selectively summarized in Table 5. Three hundred and fifty-three organic contaminants were analyzed in carcass samples (Appendix 3E), however, 256 chemicals (73 percent) were detected in less than 75 percent of the samples analyzed, and therefore, those organic chemicals were not compared statistically nor evaluated further with the exception of n-undecane. However, all aliphatic hydrocarbons were used to help identify sources and interpret results. Several of the organic contaminants in silvery minnows are further discussed below.

Aliphatic Hydrocarbons

Aliphatic hydrocarbons (1.2±2.9 µg/g wet weight) were detected in all silvery minnows collected from five sites during January 2008 (Appendix 3E, Table 5). Differentiating petrogenic from biogenic compounds is important to demonstrate a pathway between the sources of hydrocarbons and their deposition in fish tissues. In general, the origin of organic matter can be obtained by analyzing the composition of aliphatic hydrocarbons, their peaks and ratios, or through the composition of the carbon preference index (Bray and Evans 1961). None of the hydrocarbons detected in silvery minnows had equal proportions of odd- and even-numbered aliphatic hydrocarbons indicative of petrogenic sources such as oil spills (Hall and Coon 1988). Also, all ratios of pristane-to-n-heptadecane or phytane-to-n-octadecane were low in silvery minnows, indicating no recent or chronic exposure to petroleum compounds in their diet (Anderson et al. 1978, Farrington et al. 1973, Hall and Coon 1988). Pristane-to-phytane ratios were also low (0.73±0.03), except at Site 1 (>1.1), which indicated that petrogenic aliphatic hydrocarbons were not those present in silvery minnows. Petrogenic hydrocarbons have much lower pristane-to-phytane ratios ranging from 0.14 to 0.36 (Roushdy et al. 2010). Pristane-to-phytane ratios (approximately 0.8) are indicative of carbonate-dominated habitats (ten Haven et al. 1987).

The presence of aliphatic hydrocarbons with a maximum of 20 to 35 carbons and with dominance of odd numbers of carbon atoms can be used to indicate the prevalence of higher land plant waxes though source identification is not always certain (Tornabene 1980**;** Cranwell 1984; Jeng and Huh 2008). By using the presence of higher chain hydrocarbons, we estimated that 34 and 39 percent of the aliphatic hydrocarbons in silvery minnows at Site 3 and Site 4 were from terrestrial plant sources. Up to 12 percent of the aliphatic hydrocarbons in silvery minnows at Site 1 were from terrestrial plant sources; whereas, silvery minnows from Site 2 and Site 6 contained less than 5 percent of aliphatic hydrocarbons of terrestrial plant origin.

The contribution of phytoplankton and diatoms in silvery minnows can be difficult to recognize due to the low abundance of aliphatic hydrocarbons in certain species of algae (Tornabene 1980). However, significant amounts of 15, 19, and particularly 17 carbon chain aliphatic hydrocarbons, has been interpreted as an indicator of hydrocarbons of algal origin (Cranwell 1984; Jeng and Huh 2008). Using these carbon chain aliphatics as indicators, silvery minnows collected in January 2008 at Site 2 and Site 6 contained approximately 92 and 91 percent of aliphatic hydrocarbons from algal origin; whereas silvery minnows at Site 1 contained 28 percent; and, silvery minnows at Site 3 and Site 4 contained approximately 60 percent of aliphatic hydrocarbons from algal origin. These hydrocarbon indicators suggested a wide variety of plant materials can be present in silvery minnows at different locations and during different seasons.

Silvery minnows in January 2008 collected from Sites 2 though 6 contained 5 percent (or less) of petrogenic aliphatic hydrocarbons (that is, they had few aliphatic chains with less than 15 carbons associated with oil, gasoline, or diesel fuels) (Neff 1979). However, silvery minnows collected at Site 1 contained an inordinate amount of n-undecane (18.5 µg/g wet weight) with over 58 percent of their hydrocarbon burden being indicative of petrogenic origin. This is the highest concentration of n-undecane ever reported in freshwater fish. N-undecane is indicative of diesel range organic compounds such as kerosene-based fuels, solvents, paints, and soot

(Technical Resources International, Inc. 2003), perhaps from idling traffic on the 550 Bridge above Site 1, or from other unknown sources nearby.

Aromatic Hydrocarbons

A variety of aromatic hydrocarbons were detected in silvery minnows (total PAHs were 66±11 µg/kg wet weight) from five sites collected in January 2008 (Table 5, Appendix 3E). PAHs are found everywhere in the environment and are formed by burning organic matter (Neff 1979; Eisler 1987). PAHs are commonly found in used motor oil, exhaust from internal combustion engines and emissions from fossil fuel powered energy plants, grilled foods, forest fires, and volcanoes, as well as most products made from coal and petroleum (National Research Council 1983; Eisler 1987). PAH concentrations in freshwater varies widely, depending upon such factors as proximity of the waterbody to the source, source type, and season. PAH concentrations in fish depend upon their proximity to the source of pollution, the physical and chemical properties of the PAH molecule, environmental variables, the PAH content of the diet, and biological factors (Moore and Ramamoorthy 1984; Eisler 1987; McElroy et al. 1989).

Several PAHs, especially those containing 4 to 6 aromatic rings in their structure, have been shown to be mutagenic, carcinogenic, and inducers of tumors in animals exposed to high doses of PAHs in the laboratory. Studies directly linking PAHs to these effects in wild fish are few in number (Albers 2003). From studies conducted in the Great Lakes basin, the International Joint Commission recommended that concentrations of the PAH benzo[a]pyrene not exceed 1.0 µg/g in fish. Average PAH concentrations in silvery minnows (1.5±2.6 µg/kg wet weight) were nearly 10 times lower than this threshold of concern. Concentrations of PAHs in silvery minnows tended to reflect the patterns of PAHs in sediment samples (NMED 2009) with higher concentrations detected at the middle sites near Albuquerque, New Mexico (Table 5).

Certain PAHs, particularly naphthalene and its alkylated derivatives, such as 1-methyl-naphthalene, 2-methylnaphthalene, 2,6-dimethylnaphthalene, C1-methylnaphthalene, C2-naphthalene, C3-methylnaphthalene, C4-methylnaphthalene, but also phenanthrene, fluor-anthene, and fluorene, were relatively elevated in silvery minnow carcasses compared to the other PAHs (Table 5, Appendix 3E). Many of these PAHs either components of weathered oil or were combustion-related hydrocarbons. For example, combustion related hydrocarbons such as phenanthrene and its derivatives averaged 2.7 percent, fluoranthene and its derivatives averaged 1.4 percent, chrysene and its derivatives averaged 0.7 percent, and pyrene and its derivatives average 0.6 percent of the total PAHs measured in silvery minnows. Naphthalenes and its derivatives were the highest percentage (average 6 percent) of the total PAHs measured in silvery minnows. Biphenyl occurs in weathered coal tar, crude oil, and natural gas and averaged 4 percent of the total PAHs measured in silvery minnows.

Naphthalene and its alkylated derivatives were consistently detected in silvery minnows (15±2 µg/kg wet weight) (Table 5). Naphthalenes are not generally reported in fish, but were detected at concentrations below 3 µg/kg wet weight in fish from the Pacific Coast (Easton et al. 2002). Naphthalene is a white solid with a strong smell and is also called mothballs. Naphthalene is a component of fossil fuels such as gasoline, diesel, oils and coal; it is also formed when natural products such as wood or tobacco are burned. Naphthalene has a short half life in water.

Naphthalene derivatives were detected at low concentrations in sediment samples collected by the NMED (2009) from Site 3 (5.6 µg/kg wet weight) and were less than naphthalene sediment toxicity thresholds (Buchman 2008) . Notably, the pattern of accumulation of naphthalene and its derivatives was similar in silvery minnows collected along the Rio Grande suggesting exposure to widespread atmospheric sources of PAHs (Table 5).

High concentrations of PAHs in fish have been associated with decreases in health measures, increased lesions, increased genetic alterations, and altered populations (Albers 2003). PAHs in fish tissues from uncontaminated areas were generally less than 10 µg/kg wet weight and from contaminated areas were generally greater than 100 µg/kg wet weight (Eisler 1987). PAHs in fish are usually low because fish rapidly metabolize PAHs or excrete them, though there is a metabolic cost associated with the increased enzyme activity (Albers 2003; Colavecchia et al. 2004). Therefore, silvery minnows were considered moderately contaminated with PAHs (average total PAHs 66±11 µg/kg wet weight). However, effects of PAHs in silvery minnows are difficult to generalize as the incidence of lesions, effects of any genetic alterations and metabolic pathways of PAHs in fish varies by species (Albers 2003). Additionally, few studies have been conducted on wild fish (Albers 2003). Additional research should be conducted to determine the growth effects or lesions associated with elevated PAHs in silvery minnows.

Organochlorine (OC) Pesticides, Dioxins, PCBs, and PBDEs

A variety of OC pesticides (total OCs 54±26 µg/kg wet weight) were detected in silvery minnows collected variously from all six sites during 2006 to 2008 (Table 5, Appendix 3E). The DDT metabolite, p,p'-DDE, accounted for the majority (43±14 percent) of the sum total of the OC pesticides detected in silvery minnows. Trans-nonachlor (11±4 percent), alpha chlordane (9±4 percent), and endosulfan sulfate (6±2 percent) were also detected at greater concentrations than the remainder of the OC pesticides (<1 to 5 percent) and are discussed below.

Total DDTs

DDT became widely used in the 1940s and was extremely effective controlling pest vectors until it was banned by the USEPA in January 1973 due to its long residual life in the environment and its accumulation in food chains (Beckvar and Lotufo 2011). The term total DDT refers to the sum of DDT and its metabolites (DDE, DDD, and DDMU), including the ortho para (o,p' or 2, 4) and para para (p,p' or 4, 4) isomers. Total DDT in silvery minnow carcasses was mostly DDE (83 percent), DDD (12 percent) and DDMU (3 percent). However, approximately 2 percent of the parent chemical (DDT) was still detected suggesting use of DDT in the environment and transport to the Rio Grande watershed has not ceased. Similar proportions of DDT (8 percent) and its metabolites DDE (80 percent) and DDD (13 percent) were reported in fathead minnow by Jarvinen et al. (1976).

Average concentrations of total DDT in silvery minnow carcasses (18±7 µg/kg wet weight) were similar to those found in fish sampled throughout the Rio Grande (Schmitt et al. 2004; 43±16 µg/kg wet weight), but generally less than those found in fish sampled nationwide (Schmitt et al. 1999; 240±800 µg/kg wet weight). No significant linear relationships was found between the concentrations of total DDT in silvery minnows and their lipid content. An ANOVA tests found

significant differences in wet weight concentrations of total DDT ($F(2,9)=14.2$, $p=0.002$) in silvery minnows collected from the middle sites (Site 3 and Site 4) than in those collected from the upper (Site 1 and Site 2) or lower sites (Site 5 and Site 6). As there are no known sources of total DDT near Site 3 and Site 4, it is possible that the rate of bioaccumulation or diet of silvery minnows is greater in this section of the river. Concentrations of total DDT in silvery minnows were below the lethal effects threshold of 600 µg/kg wet weight reported by Beckvar and Lofuto (2011). However, recent research have focused on endocrine disruption and other sublethal effects that have been observed at concentrations of total DDT similar to and up to two orders of magnitude lower than in lethal studies with older fish life stages (Beckvar and Lofuto 2011). Therefore, additional research could be conducted to determine if total DDT detected in silvery minnows are associated with any adverse sublethal effects.

Endosulfan

Designed in the 1950s, endosulfan is an organochlorine insecticide that can be used on a wide variety of vegetables, nuts, fruits, cotton, and ornamental plants. Endosulfan is a member of the class of the cyclodiene pesticides and consists of two isomers (endosulfan I and II), and a sulfur metabolite (Beckvar and Lotufo 2011). Endosulfan was recently banned in the United States due to continued risk to farm workers, wildlife, fish quality, and the environment, with a complete phase out of agricultural use of the chemical by 2016 (USEPA 2010).

Concentrations of endosulfan sulfate in silvery minnow carcasses (2.4±1.5 µg/kg wet weight) were higher than endosulfan concentrations in larger-bodied fish (< 0.2 µg/kg wet weight) collected from the Rio Grande by NMED (2009). No significant linear relationship was found between concentrations of endosulfan in silvery minnows and their lipid content. There was a significant positive relationship ($r = 0.668$, $n = 10$, $p = 0.017$) between concentrations of endosulfan sulfate in silvery minnows and their average weight in composite samples. However, average weights of the composited fish were not significantly different by site or by section of river, even though some of the larger fish were in collections of fish from Site 3 and Site 4. An ANOVA test found significant differences in carcass wet weight concentrations of endosulfan sulfate ($F(2,9)=13.6$, $p=0.001$) collected from the middle sites (Site 3 and Site 4) than in those collected from the upper or lower sites (Table 5). The NMED (2009) sampled endosulfan in sediments collected from the Rio Grande during 2006 to 2008, and three of the highest concentrations (0.05 µg/g wet weight) were found in the Rio Grande near Site 3. Reasons for elevated endosulfan sulfate in silvery minnows from the middle sites are unclear. There were elevated sediment concentrations of endosulfan sulfate near Site 3, but also bioaccumulation rates or diets in silvery minnows from the middle sites may differ in this river section.

Several fish species experienced mortality associated with whole body concentrations of endosulfan sulfate as low 31 µg/kg wet weight (Beckvar and Lotufo 2011). Morphological changes in the liver and enzyme activity reductions in brain, liver, and skeletal muscle were reported in fish at concentrations as low as 1 µg/kg wet weight, becoming more severe at concentrations greater than 5 µg/kg wet weight (European Food Safety Authority 2011). As concentrations of endosulfan and endosulfan sulfate in silvery minnows exceeded levels of concern, particularly in those collected from Site 3 and Site 4, additional research should be conducted to determine the effects of elevated concentrations in silvery minnows.

Trans-nonachlor

Trans-nonachlor is the common name for 1,2,3,4,5,6,7,8,8-nona-chloro-3a,4,7,7a-tetrahydro-4,7-methanoindan, and it is a member of the class of the cyclodiene pesticides (e.g., "technical chlordane") that were often used for management of subterranean termites (Isoptera). Chlordane mixtures (including alpha chlordane) were first produced in 1948, though commercial uses were later banned (1988) in the U.S.A. due to concerns about the risk of cancer (USEPA 2004).

Trans-nonachlor is the most bioaccumulative component of chlordane (USEPA 2004). Average concentrations of trans-nonachlor in silvery minnow carcasses (5±3 µg/kg wet weight) were similar to those found in fish sampled throughout the Rio Grande (Schmitt et al. 2004; 10±13 µg/kg wet weight), but generally less than those found in fish sampled nationwide (Schmitt et al. 1999; 39±102 µg/kg wet weight). No significant linear relationships was found between concentrations of trans-nonachlor in silvery minnows and their lipid content. An ANOVA test found significant differences in wet weight concentrations of trans-nonachlor ($F(2,9)=24.6$, $p<0.001$) in silvery minnows collected from the middle sites (Site 3 and Site 4) than in those collected from the upper sites (Table 5). Unless there are sources of trans-nonachlor (and many other organic chemicals) in the vicinity of Site 3 and Site 4, it is likely that bioaccumulation rate in fish at these sites was greater in this section of the river. Concentrations of trans-nonachlor in silvery minnows do not exceed levels of concern (Eisler 1990; Beckvar and Lotufo 2011).

PCBs

PCBs do not occur naturally in the environment. PCBs have been used as hydraulic lubricants, insulators, heat transfer fluids, dielectric fluid for transformers and capacitors, pesticide extenders, dust-reducing agents, flame retardants, sealants, and organic diluents (Hutzinger et al. 1974). PCBs accumulate from air, water, and in animals through the food web because they are highly lipid-soluble and persistent in the environment. PCBs were introduced in the U.S.A. in 1929 and certain uses were banned in 1979 (USEPA 1979). PCBs have been shown to adversely affect reproduction, thymic atrophy, enzyme induction, nervous systems dysfunction, behavioral abnormalities, liver injury, estrogenic activity, endocrine disruption, immune system suppression, deformities, hepatotoxicity, and tumor promotion in fish, wildlife, and experimental animals, and it is toxic to people (Eisler and Belisle 1996; Hoffman et al. 1996; Niimi 1996; ATSDR 2000; NMED 2009; Wenning et al. 2011).

Average total PCB concentrations in silvery minnows (15.3±10.1 µg/kg wet weight) were higher than average concentrations in channel catfish (*Ictalurus punctatus*) fillets (4.6±5.3 µg/kg wet weight), or in white bass (*Morone chrysops*) fillets from Cochiti Reservoir (Gonzales and Fresquez 2006), but less than average total PCB concentrations in whole body carp (90.7±13.0 µg/kg wet weight) or in white bass fillets (177 µg/kg wet weight) collected from the Rio Grande (NMED 2009, New Mexico Water Quality Control Commission 2010). Average concentrations of total PCBs in silvery minnows were in the low range of average total PCB concentrations reported in whole body cyprinids (range 18-320 µg/kg wet weight) collected across the U.S.A. (Stahl et al. 2009). Interestingly, the pattern and ratios of the different PCB congeners in silvery minnows were generally consistent between sites, but varied by sample year, suggesting PCB

congener patterns may vary by season, reflect atmospheric deposition patterns and sources, or reflect different rates of bioaccumulation, diet, or elimination processes in these fish.

Total PCB concentrations in whole fish associated with adverse effects (average 118, range 0.1 to 1502 µg/g wet weight) or with no effects (average 431, range 0.1 to 4668 µg/g wet weight) ranged widely and overlapped for marine and freshwater fish (USACE 2010; Wenning et al. 2011). No total PCB concentrations in silvery minnows were above the average concentration associated with adverse effect (118 µg/g wet weight). However, effect studies using total PCB concentrations ranged so widely as to make comparisons with concentrations in silvery minnows unsatisfactory. For example, toxicity studies for PCB-153 and PCB-180 with effects in common carp (*Cyprinus carpio*) were 0.04 µg/g wet weight and 0.06 µg/g wet weight, respectively, while the same two PCB congeners have higher effect concentrations for fathead minnow, ranging from 6,030,000 and 4,565,000 µg/g wet weight, respectively. Concentrations of PCB-153/163 and PCB-180/193 in silvery minnows were 1.4±0.9 µg/g wet weight and 1.3±0.9 µg/g wet weight, respectively, and therefore, exceed the effect studies involving carp but do not exceed the no effect studies involving fathead minnow.

During a review of the PCB toxicity thresholds for endangered fish, Meador (2000) derived a concentration associated with adverse effects at 2400 µg/kg dry weight on a per lipid basis. Average total PCB concentrations in silvery minnows (838±499 µg/kg dry weight on a per lipid basis) were below this threshold. Also, Olsson et al. (1999) reported skeletal deformities including craniofacial malformations associated with fish injected with 360 µg/kg PCB-190 wet weight on a per lipid basis. Silvery minnows had PCB-190 concentrations lower than 36 µg/kg wet weight on a per lipid basis. This suggests that PCB-induced deformity would be unlikely in the silvery minnows unless they were more sensitive than the zebrafish (*Danio rerio*) used by Olsson et al. (1999), therefore, PCB-90 is unlikely the cause of the deformed opercula commonly observed in silvery minnows (Davis and Lusk 2012). However, given the wide range of effect concentrations in fish, additional research could be conducted to determine if individual PCB congener concentrations in silvery minnows are associated with adverse sublethal effects.

Dioxins, Dibenzofurans, and TEQs

Certain PCB congeners are able to line up in a flat configuration and are considered "dioxin-like" as they may have a fraction of toxic equivalency (TEQ) to dioxin (i.e., 2,3,7,8-TCDD) (Wenning et al. 2011). Dioxins and dibenzofurans were not detected above the LOD in silvery minnows. Toxic equivalency factors (TEFs) from Van den Berg et al. (1998) were used for certain PCB congeners (PCB-105, PCB-118, PCB-156/157, and PCB-167) in silvery minnows to calculate TEQs. TEQs for silvery minnows ranged from 0.08 picograms TCDD per gram (pg /g) wet weight in silver minnows collected from Site 6 to 1.2 pg/g wet weight in fish collected from Site 3. TEQs in silvery minnows averaged 0.3±0.3 pg/g wet weight and averaged 4.3±4.1 pg/g wet weight on a per lipid basis. TEQs in silvery minnows were below those reported by Gonzales and Fresquez (2006) in fillets from fish collected from Abiquiu and Cochiti Reservoirs (range 3 to 300 pg/g wet weight), in fish collected from the Rio Grande (Schmitt et al. 2004; 1.8±1.2 pg/g), or in large bodied fish collected from the Rio Grande (NMED 2009; 2.1±0.9 pg/g wet weight). Steevens et al. (2005) proposed no effect and low effect tissue residue benchmarks from 57 to 700 pg /g wet weight on a lipid basis to protect early life stage fish. Concentrations in

silvery minnows would fall well below that range of potential effects in fish. Therefore, dioxin toxicity or its toxic equivalence using PCB congeners is not expected in silvery minnows at the tissue concentrations detected.

PBDEs

Total BDE in silvery minnows carcasses averaged 138±142 µg/kg wet weight and ranged from 11 µg/kg wet weight at Site 1 to 477 µg/kg wet weight at Site 4 (Table 5, Appendix 3E). On average, 76 percent of total BDE in silvery minnow carcasses was BDE-47, followed by BDE-100, BDE-154, BDE-49/71 and BDE-28, at 9, 3, 2.5 and 2 percent, respectively, similar to BDE congener patterns detected in other feral fish (Wenning et al. 2011). Patterns of the relative ratios of BDEs were similar in fish by site within a sample year than between sample years. For example, BDE-206 was not detected in silvery minnows collected in 2006, but was detected in silvery minnows collected during 2008 (Appendix 3E).

Little information is available, at present, on the toxicity of PBDEs in fish (Wenning et al. 2011). BDE-47 concentrations in whole fish associated with adverse effects (average 180, range 70 to 410 µg/g wet weight) or with no effects (average 140, range 3 to 410 µg/g wet weight) ranged widely and overlapped for freshwater fish (Chen et al. 2010, Chou et al. 2010, USACE 2010). BDE-47 in silvery minnow carcasses averaged 110±117 µg/kg wet weight and ranged from 6 µg/kg wet weight at Site 1 to 385 µg/kg wet weight at Site 4 (Appendix 3E, Table 5). None of the BDE-47 concentrations in silvery minnows were above the average concentration associated with adverse effect (180 µg/g wet weight). In a fathead minnow study, Muirhead et al. (2006) reported that egg laying in breeding pairs stopped after accumulation of BDE-47 in 10 days and cessation of spawning appeared to have occurred when peak body levels of 15 µg/g wet weight were reached in male fathead minnow. BDE-47 was not elevated above these thresholds of concern in silvery minnows. However, additional research on the effects of BDEs is warranted as there are few studies on the effects of PBDEs in fish. Marr et al. (2010) described research into the effects of BDE-47 on silvery minnows being conducted by the U.S. Geological Survey's Columbia Environmental Research Center.

CONCLUSIONS

Concentrations of inorganic contaminants in silvery minnows were similar to those in other fish species collected from the Rio Grande and were generally low, except for aluminum and zinc. Aluminum and zinc were moderately elevated in silvery minnows throughout the Middle Rio Grande, but were similar to concentrations in fish from other watersheds in New Mexico. Several elements, arsenic and barium, decreased in silvery minnows in a downstream manner, though concentrations of these elements in water or sediment did not also decrease downstream. Certain elements, including copper, lead, and nickel, were elevated in silvery minnows collected from the upper sites above levels of concern for these elements in laboratory studies involving sublethal effects. Research into the sublethal effects of aluminum, copper, lead, nickel, and zinc on silvery minnows is warranted.

Generally, organic contaminant concentrations in silvery minnows were low, except for PAHs. Certain PAHs, mostly naphthalenes, were moderately elevated in silvery minnows sampled throughout the Middle Rio Grande. One aliphatic hydrocarbon, n-undecane, common in fuels and diesel soot, was also elevated in silvery minnows collected at Site 1, the Rio Grande at Bernalillo, New Mexico. It was unclear why concentrations of several organochlorine pesticides, PCBs, and PBDEs, were elevated in silvery minnows collected from Site 3 and Site 4. Flame retardant chemicals, such as PBDEs used in furniture foam, were higher in silvery minnows than were total DDTs or total PCBs, but were below levels of concern compared with laboratory studies. Research into the sublethal effects of PAHs on silvery minnows is warranted.

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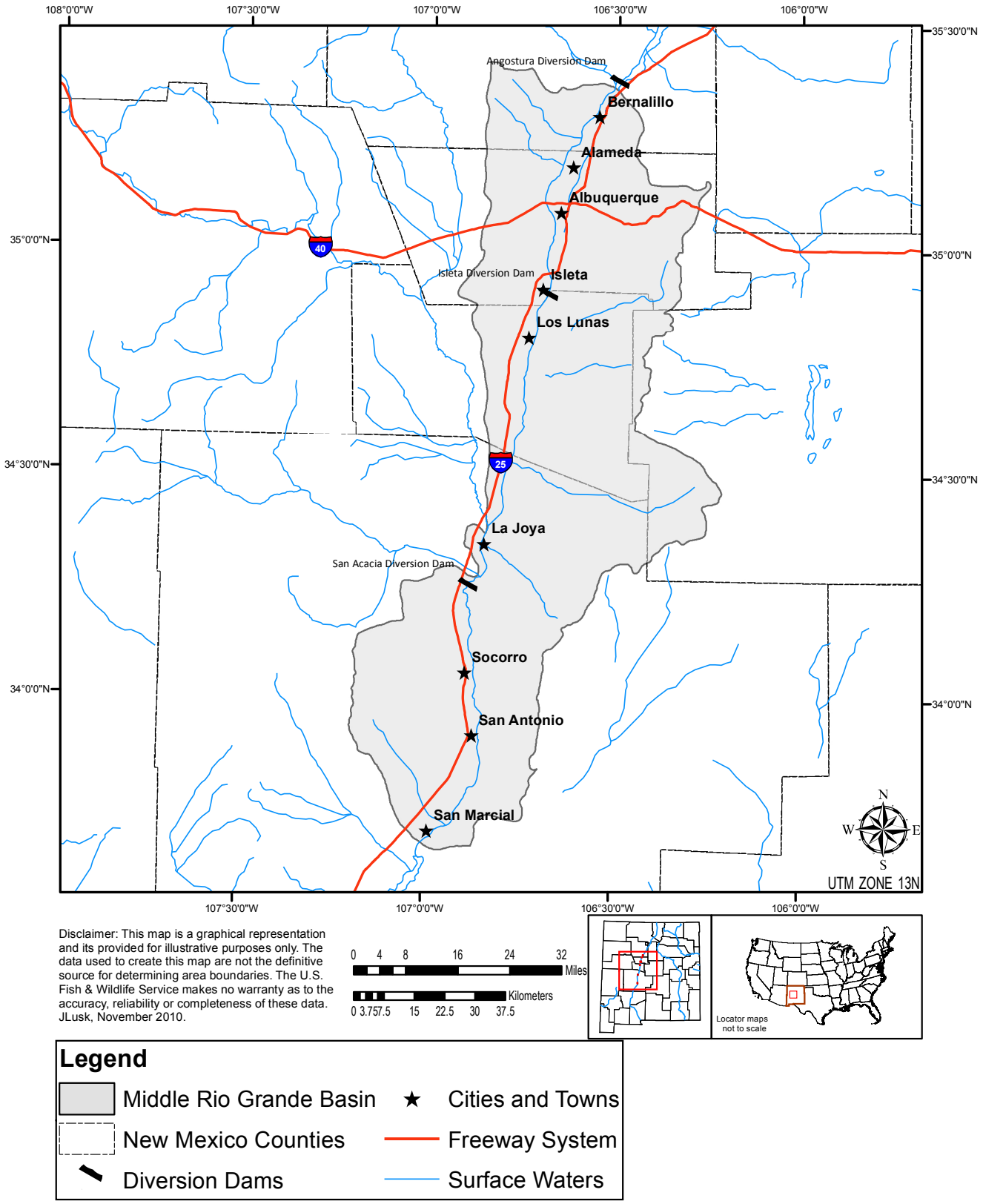


Figure 1. Location of the Middle Rio Grande Watershed and RGSM Health Study Area in New Mexico.

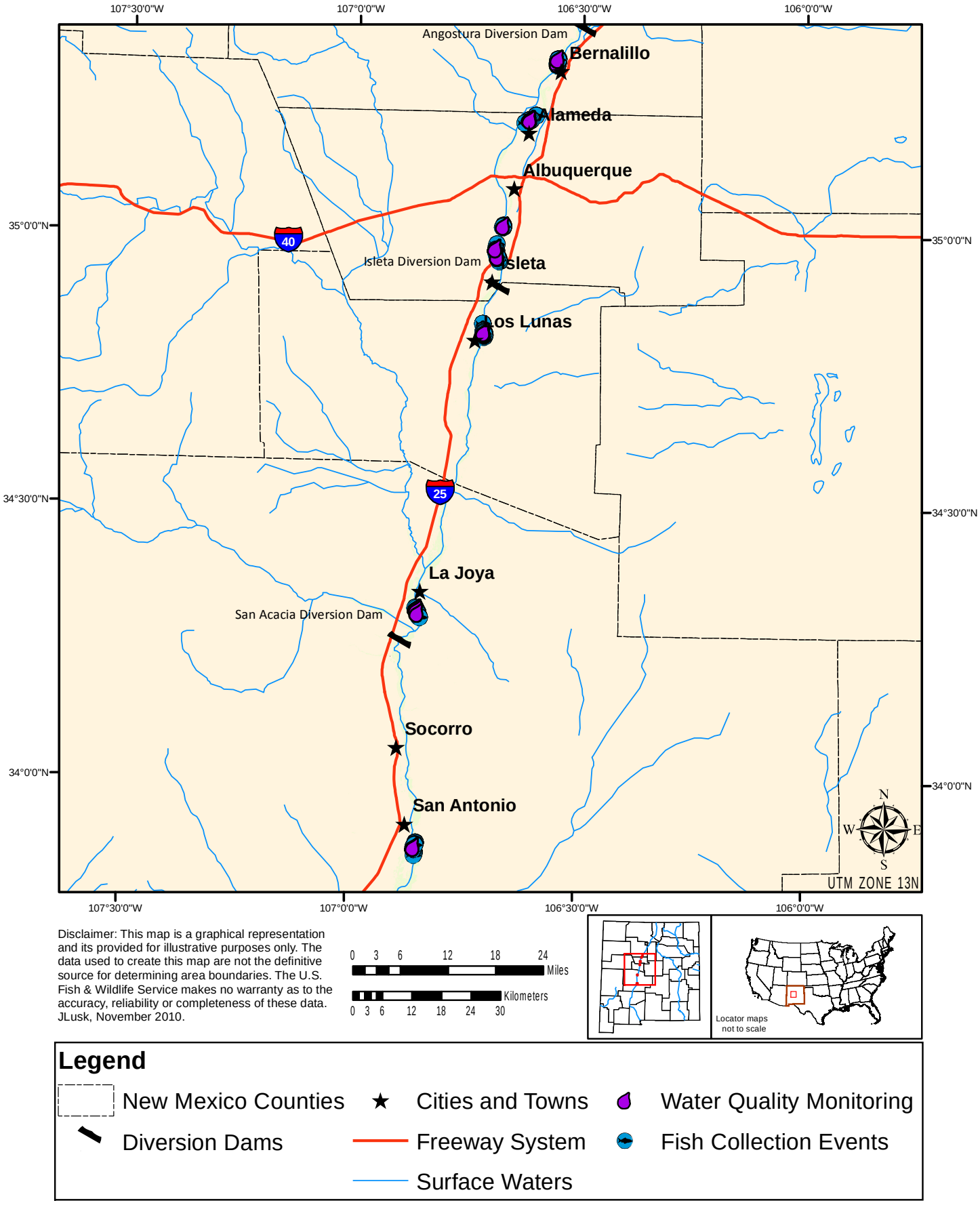


Figure 2. Location of the Six RGSM Health Study Sites along the Middle Rio Grande in New Mexico.

Table 1. Site number, site name name, latitude and longitude (in decimal degress) of a central point, and description of the RGSM Health Study sampling sites.

Site Number	Site Name	Latitude and Longitude (central point - decimal degrees)	Site Location Description
1	Rio Grande at Bernalillo, New Mexico	35.3181, -106.5589	approximately 0.1 mi upstream to 0.8 mi downstream of the Highway 550 Bridge crossing
2	Rio Grande at Alameda, New Mexico	35.2101, -106.6172	approximately 0.7 mi upstream and 1.1 mi downstream of AMAFCA North Diversion Channel mouth
3	Rio Grande at Los Padillas, New Mexico	34.9716, -106.6897	Just north of the Interstate 25 Bridge to approximately 5 mi upstream
4	Rio Grande at Los Lunas, New Mexico	34.8228, -106.7149	approximately 0.6 mi to 2.4 mi north of the Main Street (Highway 6) Bridge crossing
5	Rio Grande at La Joya, New Mexico	34.3073, -106.8493	approximately 2.4 mi to 3.8 mi north of the confluence with the Rio Salado
6	Rio Grande near San Antonio, New Mexico	33.8775, -106.8495	approximately 0.5 mi downstream and 1.2 mi upstream of Bosque del Apache National Wildlife Refuge (BdANWR) North Boundary

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Chemical Grouping	Analytical Method[1]	Limit of Detection[2]	Chemical Name or Abbreviation[3]	CAS[4] Number	Alternative Chemical Name
Aromatic hydrocarbon	GCMS	<0.45	1,6,7-trimethylnaphthalene	2131386	1,6,7-trimethylnaphthalene
Aromatic hydrocarbon	GCMS	<0.20	1-methylnaphthalene	90120	1-methylnaphthalene
Aromatic hydrocarbon	GCMS	<0.51	1-methylphenanthrene	832699	1-methylphenanthrene
Aromatic hydrocarbon	GCMS	<0.64	2,6-dimethylnaphthalene	28804888	2,6-dimethylnaphthalene
Aromatic hydrocarbon	GCMS	<0.20	2-methylnaphthalene	91576	2-methylnaphthalene
Aromatic hydrocarbon	GCMS	<0.24	acenaphthalene	208968	acenaphthalene
Aromatic hydrocarbon	GCMS	<0.41	acenaphthene	83329	acenaphthene
Aromatic hydrocarbon	GCMS	<0.20	anthracene	120127	anthracene
Aromatic hydrocarbon	GCMS	<0.37	benzo(a)anthracene	56553	benzo(a)anthracene
Aromatic hydrocarbon	GCMS	<0.45	benzo(a)pyrene	50328	benzo(a)pyrene
Aromatic hydrocarbon	GCMS	<0.32	benzo(b)fluoranthene	205992	benzo(b)fluoranthene
Aromatic hydrocarbon	GCMS	<0.46	benzo(e)pyrene	192972	benzo(e)pyrene
Aromatic hydrocarbon	GCMS	<0.53	benzo(g,h,i)perylene	191242	benzo(g,h,i)perylene
Aromatic hydrocarbon	GCMS	<0.41	benzo(k)fluoranthene	207089	benzo(k)fluoranthene
Aromatic hydrocarbon	GCMS	<0.31	biphenyl	92524	phenylbenzene
Aromatic hydrocarbon	GCMS	<0.94	C1-chrysenes	NA	Any or all methyl chrysene isomers
Aromatic hydrocarbon	GCMS	<0.68	C1-dibenzothiophenes	NA	Any or all methyl dibenzothiophene isomers
Aromatic hydrocarbon	GCMS	<1.26	C1-fluoranthenes & pyrenes	NA	Any or all methyl fluoranthene and methyl pyrene isomers
Aromatic hydrocarbon	GCMS	<0.81	C1-fluorenes	NA	Any or all methyl fluorene isomers
Aromatic hydrocarbon	GCMS	<2.26	C1-naphthalenes	NA	Any or all methyl naphthalene isomers
Aromatic hydrocarbon	GCMS	<0.60	C1-phenanthrenes & anthracenes	NA	Any or all methyl phenanthrene and methyl anthracenes isomer
Aromatic hydrocarbon	GCMS	<0.94	C2-chrysenes	NA	Any or all ethyl chrysene isomers
Aromatic hydrocarbon	GCMS	<0.66	C2-dibenzothiophenes	NA	Any or all ethyl dibenzothiophene isomers
Aromatic hydrocarbon	GCMS	<0.80	C2-fluorenes	NA	Any or all ethyl fluorenes isomers
Aromatic hydrocarbon	GCMS	<1.61	C2-naphthalenes	NA	Any or all ethyl naphthalenes isomers
Aromatic hydrocarbon	GCMS	<0.58	C2-phenanthrenes & anthracenes	NA	Any or all ethyl phenanthrenes and ethyl anthracenes isomers
Aromatic hydrocarbon	GCMS	<0.91	C3-chrysenes	NA	Any or all propyl chrysene isomers

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Aromatic hydrocarbon	GCMS	<0.66	C3-dibenzothiophenes	NA	Any or all propyl dibenzothiophene isomers
Aromatic hydrocarbon	GCMS	<0.81	C3-fluorenes	NA	Any or all propyl fluorene isomers
Aromatic hydrocarbon	GCMS	<1.94	C3-naphthalenes	NA	Any or all propyl naphthalene isomers
Aromatic hydrocarbon	GCMS	<0.58	C3-phenanthrenes & anthracenes	NA	Any or all propyl phenanthrene and propyl anthracene isomers
Aromatic hydrocarbon	GCMS	<0.91	C4-chrysenes	NA	Any or all butyl chrysene isomers
Aromatic hydrocarbon	GCMS	<1.94	C4-naphthalenes	NA	Any or all butyl naphthalene isomers
Aromatic hydrocarbon	GCMS	<0.58	C4-phenanthrenes & anthracenes	NA	Any or all butyl phenanthrene and butyl anthracene isomers
Aromatic hydrocarbon	GCMS	<0.46	chrysene	218019	chrysene
Aromatic hydrocarbon	GCMS	<0.41	dibenz(a,h)anthracene	53703	dibenz(a,h)anthracene
Aromatic hydrocarbon	GCMS	<0.33	dibenzothiophene	132650	dibenzothiophene
Aromatic hydrocarbon	GCMS	<0.28	fluoranthene	206440	fluoranthene
Aromatic hydrocarbon	GCMS	<0.24	fluorene	86737	fluorene
Aromatic hydrocarbon	GCMS	<0.67	indeno(1,2,3-cd)pyrene	193395	Indenopyrene
Aromatic hydrocarbon	GCMS	<0.52	naphthalene	91203	tar camphor
Aromatic hydrocarbon	GCMS	<0.63	perylene	198550	perylene
Aromatic hydrocarbon	GCMS	<0.20	phenanthrene	85018	Coal tar pitch volatiles
Aromatic hydrocarbon	GCMS	<0.40	pyrene	129000	Benzo[d,e,f]phenanthrene
Dioxin and Furans	GCMS	<0.009	1,2,3,4,6,7,8-HpCDD	35822469	1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin
Dioxin and Furans	GCMS	<0.009	1,2,3,4,6,7,8-HpCDF	67562394	1,2,3,4,6,7,8-heptachlorodibenzofuran
Dioxin and Furans	GCMS	<0.009	1,2,3,4,7,8,9-HpCDF	55673897	1,2,3,4,7,8,9-heptachlorodibenzofuran
Dioxin and Furans	GCMS	<0.009	1,2,3,4,7,8-HxCDD	39227286	1,2,3,4,7,8-hexachlorodibenzo-p-dioxin
Dioxin and Furans	GCMS	<0.009	1,2,3,4,7,8-HxCDF	70648269	1,2,3,4,7,8-hexachlorodibenzofuran
Dioxin and Furans	GCMS	<0.009	1,2,3,6,7,8-HxCDD	57653857	1,2,3,6,7,8-hexachlorodibenzo-p-dioxin
Dioxin and Furans	GCMS	<0.009	1,2,3,6,7,8-HxCDF	57117449	1,2,3,6,7,8-hexachlorodibenzofuran
Dioxin and Furans	GCMS	<0.009	1,2,3,7,8,9-HxCDD	19408743	1,2,3,7,8,9-hexachlorodibenzo-p-dioxin
Dioxin and Furans	GCMS	<0.009	1,2,3,7,8,9-HxCDF	72918219	1,2,3,7,8,9-hexachlorodibenzofuran
Dioxin and Furans	GCMS	<0.009	1,2,3,7,8-PeCDD	40321764	1,2,3,7,8-pentachlorodibenzo-p-dioxin
Dioxin and Furans	GCMS	<0.009	1,2,3,7,8-PeCDF	57117416	1,2,3,7,8-pentachlorodibenzofuran
Dioxin and Furans	GCMS	<0.009	2,3,4,6,7,8-HxCDF	60851345	2,3,4,6,7,8-hexachlorodibenzofuran
Dioxin and Furans	GCMS	<0.009	2,3,4,7,8-PeCDF	57117314	2,3,4,7,8-pentachlorodibenzo-p-dioxin
Dioxin and Furans	GCMS	<0.002	2,3,7,8-TCDD	1746016	2,3,7,8-tetrachlorodibenzo-p-dioxin
Dioxin and Furans	GCMS	<0.002	2,3,7,8-TCDF	51207319	2,3,7,8-tetrachlorodibenzofuran

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Dioxin and Furans	GCMS	<0.002	Cl4-PCDD	NA	Any or all of the 22 possible tetrachlorinated dibenzo-p-dioxin isomers
Dioxin and Furans	GCMS	<0.002	Cl4-PCDF	NA	Any or all of the 38 possible tetrachlorinated dibenzofuran isomers.
Dioxin and Furans	GCMS	<0.009	Cl5-PCDD	NA	Any or all of the 14 possible pentachlorinated dibenzo-p-dioxin isomers.
Dioxin and Furans	GCMS	<0.009	Cl5-PCDF	NA	Any or all of the 28 possible pentaclorinated dibenzofuran isomers.
Dioxin and Furans	GCMS	<0.009	Cl6-PCDD	NA	Any or all of the 10 possible hexachlorinated dibenzo-p-dioxin isomers
Dioxin and Furans	GCMS	<0.009	Cl6-PCDF	NA	Any or all of the 16 possible hexachlorinated dibenzofuran isomers.
Dioxin and Furans	GCMS	<0.009	Cl7-PCDD	NA	Any or all of the 2 possible heptachlorinated dibenzo-p-dioxin isomers
Dioxin and Furans	GCMS	<0.009	Cl7-PCDF	NA	Any of all of the 4 possible heptachlorinated dibenzofuran isomers.
Dioxin and Furans	GCMS	<0.002	OCDD	3268879	octachlorodibenzo-p-dioxin
Dioxin and Furans	GCMS	<0.002	OCDF	39001020	octachlorodibenzofuran
Flame-resistant chemical	GCMS	<0.17	BDE-1	NA	4-monobromodiphenyl ether
Flame-resistant chemical	GCMS	<0.17	BDE-10	NA	2,6-dibromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.20	BDE-100	189084648	2,2’,4,4’,6-pentabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.17	BDE-11	6903635	3,3’-dibromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.18	BDE-116	NA	2,3,4,5,6-pentabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.18	BDE-118	NA	2,3',4,4',5-pentabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.18	BDE-119	189084660	2,3’,4,4’6-pentabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.18	BDE-12	NA	2,3,4,4',5,6'-hexabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.18	BDE-126	NA	3,3’,4,4’,5-pentabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.17	BDE-13	NA	3,4’-dibromodiphenyl ether
Flame-resistant chemical	GCMS	<0.14	BDE-138	182677301	2,2',3,4,4',5'-hexabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.18	BDE-15	2050477	2,2’,4,4’,5,5’ hexabromobiphenyl ether

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Flame-resistant chemical	GCMS	<0.20	BDE-153	68631492	2,2',4,4',5,5'-hexabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.20	BDE-154	207122154	2,2’,4,4’,5,6’-hexabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.14	BDE-155	35854945	2,2’,4,4’,6,6’-hexabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.14	BDE-166	189084580	2,3,4,4',5,6-hexabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.18	BDE-17	147217752	2,2’,4-tribromodiphenyl ether
Flame-resistant chemical	GCMS	<0.13	BDE-181	189084671	2,2’,3,4,4’,5,6-heptabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.13	BDE-183	207122165	2,2',3,4,4',5',6-heptabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.10	BDE-190	NA	2,3,3',4,4',5,6-heptabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.10	BDE-194	NA	2,2′,3,3′,4,4′,5,5′-Octabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.10	BDE-195	NA	2,2′,3,3′,4,4′,5,6-Octabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.10	BDE-196	NA	2,2’,3,3’,4,4’,5’,6-octabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.10	BDE-197	NA	2,2’,3,3’,4,4’,6,6’-Octabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.10	BDE-198/199/203/200	NA	BDE-198+BDE-199+BDE-203+BDE-200
Flame-resistant chemical	GCMS	<0.17	BDE-2	6876002	3-bromodipheyl Ether
Flame-resistant chemical	GCMS	<0.10	BDE-201	NA	2,2’,3,3’,4,5’,6,6’-Octabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.10	BDE-202	NA	2,2’,3,3’,5,5’,6,6’-Octabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.10	BDE-204	NA	2,2’,3,4,4’,5,6,6’-Octabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.10	BDE-205	NA	2,3,3’,4,4’,5,5',6-Octabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.10	BDE-206	63936561	2,2',3,3',4,4',5,5',6-nonabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.10	BDE-207	NA	2,2’,3,3’,4,4’,5,6,6’-nonabromodiphenyl ether

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Flame-resistant chemical	GCMS	<0.10	BDE-208	NA	2,2',3,3',4,5,5',6,6'-nonabromodiphenyl ether
Flame-resistant chemical	GCMS	<1.40	BDE-209	NA	2,2’,3,3’,4,4’,5,5’,6,6’-decabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.17	BDE-25	147217774	2,3’,4-tribromodiphenyl ether
Flame-resistant chemical	GCMS	<0.20	BDE-28	41318756	2,4,4’-tribromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.17	BDE-3	NA	2,2',3,4,4',5'-hexabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.17	BDE-30	NA	2,4,6-tribromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.17	BDE-32	NA	2,4’,6-tribromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.17	BDE-33	NA	2’,3,4-tribromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.17	BDE-35	NA	3,3’,4-tribromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.17	BDE-37	NA	3,4,4’-tribromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.20	BDE-47	54364312	2,2’,4,4’ tetrabromodiphenyl ether
Flame-resistant chemical	GCMS	<0.20	BDE-49/71	NA	BDE-49+BDE-71
Flame-resistant chemical	GCMS	<0.11	BDE-66	187084615	2,3',4,4'-tetrabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.17	BDE-7	NA	2,2',4,4',5,5'-hexabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.20	BDE-75	189084637	2,4-dibromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.20	BDE-77	NA	3,3’,4,4’-tetrabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.17	BDE-8	NA	2,2',4,4',5,6'-heptabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.36	BDE-85	182346210	2,2',3,4,4'-pentabromodiphenyl Ether
Flame-resistant chemical	GCMS	<0.18	BDE-99	603486092	2,2’,4,4’,5-pentabromodiphenyl ether
Flame-resistant chemical	ICP-AES	<1.4	BDE-Total	NA	Sum of the BDE congeners
Organic mercury	AFS	<0.002	Methyl mercury	22967926	Methyl mercury
Organo-halide pesticide	GCECD	<0.15	1,2,3,4-Tetrachlorobenzene	634662	1,2,3,4-benzene tetrachloride
Organo-halide pesticide	GCECD	<0.27	1,2,3,5-Tetrachlorobenzene	634902	1,2,3,5-benzene tetrachloride
Organo-halide pesticide	GCECD	<0.21	o,p'-DDD	72548	1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)ethane
Organo-halide pesticide	GCECD	<0.45	o,p'-DDE	3424826	1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)ethylene
Organo-halide pesticide	GCECD	<0.16	o,p'-DDT	789026	1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)ethane
Organo-halide pesticide	GCECD	<0.45	p,p'-DDD	72548	1,1-dichloro-2,2-bis(p-chlorophenyl)ethane
Organo-halide pesticide	GCECD	<0.91	p,p'-DDE	72559	1,1-dichloro-2,2-bis(p-chlorophenyl)ethylene

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Organo-halide pesticide	GCECD	<0.91	p,p'-DDT	50293	1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane
Organo-halide pesticide	GCECD	<0.12	Aldrin	309002	1,4:5,8-dimethanonaphthalene
Organo-halide pesticide	GCECD	<0.21	alpha-BHC	319846	alpha HCH; alpha benzene hexachloride
Organo-halide pesticide	GCECD	<0.45	alpha-Chlordane	5103719	cis-Chlordane
Organo-halide pesticide	GCECD	<0.22	beta-BHC	319857	beta HCH; beta benzene hexachloride
Organo-halide pesticide	GCECD	<0.15	cis-Nonachlor	5103731	cis-Nonachlor
Organo-halide pesticide	GCECD	<0.13	44DDMU	1022226	4,4'-DDMU; metabolite of DDD
Organo-halide pesticide	GCECD	<0.91	DDT-total	NA	Sum of all DDT, DDE, DDD isomers
Organo-halide pesticide	GCECD	<0.11	delta-BHC	319868	delta HCH; delta benzene hexachloride
Organo-halide pesticide	GCECD	<0.19	dieldrin	60571	dieldrin
Organo-halide pesticide	GCECD	<0.50	endosulfan I	959988	endosulfan-alpha
Organo-halide pesticide	GCECD	<0.15	endosulfan II	33213659	endosulfan-beta
Organo-halide pesticide	GCECD	<0.45	endosulfan sulfate	1031078	endosulfan sulfate
Organo-halide pesticide	GCECD	<0.20	endrin	72208	endrin
Organo-halide pesticide	GCECD	<0.15	gamma-BHC	58899	lindane; gamma HCH
Organo-halide pesticide	GCECD	<0.15	gamma-Chlordane	5566347	gamma-Chlordane
Organo-halide pesticide	GCECD	<0.14	heptachlor	76448	heptachlor
Organo-halide pesticide	GCECD	<0.16	heptachlor epoxide	1024573	heptachlor Epoxide
Organo-halide pesticide	GCECD	<0.12	oxychlordane	27304138	Oxychlordane
Organo-halide pesticide	GCECD	<0.15	pentachloroanisole	1825214	pentachloroanisole
Organo-halide pesticide	GCECD	<0.36	BHC-total	NA	Sum of all BHC isomers
Organo-halide pesticide	GCECD	<10.5	toxaphene	8001352	toxaphene
Organo-halide pesticide	GCECD	<0.45	trans-Nonachlor	39765805	trans-Nonachlor
Organo-halide pesticide	GCMS	<0.23	HCB	118741	hexachlorobenzene
Organo-halide pesticide	GCECD	<0.67	pentachorobenzene	608935	pentachorobenzene
Organophosphate	GCMS	<0.15	chlorpyrifos	2921882	Chlorpyrifos
Paraffin hydrocarbon	GCMS	<20.0	n-decane	124185	n-decane
Paraffin hydrocarbon	GCMS	<20.0	n-docosane	629970	n-docosane
Paraffin hydrocarbon	GCMS	<20.0	n-dodecane	112403	n-dodecane
Paraffin hydrocarbon	GCMS	<14.5	n-dotriacontane	544854	n-dotriacontane
Paraffin hydrocarbon	GCMS	<16.2	n-eicosane	112958	n-eicosane
Paraffin hydrocarbon	GCMS	<17.1	n-heneicosane	629947	n-heneicosane
Paraffin hydrocarbon	GCMS	<14.8	n-hentriacontane	630046	n-hentriacontane
Paraffin hydrocarbon	GCMS	<20.0	n-heptacosane	593497	n-heptacosane
Paraffin hydrocarbon	GCMS	<20.0	n-heptadecane	629787	n-heptadecane

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Paraffin hydrocarbon	GCMS	<20.0	n-hexacosane	630013	n-hexacosane
Paraffin hydrocarbon	GCMS	<20.0	n-hexadecane	544763	n-hexadecane
Paraffin hydrocarbon	GCMS	<13.0	n-nonacosane	630035	n-nonacosane
Paraffin hydrocarbon	GCMS	<20.0	n-nonadecane	629925	n-nonadecane
Paraffin hydrocarbon	GCMS	<14.0	n-octacosane	630024	n-octacosane
Paraffin hydrocarbon	GCMS	<20.0	n-octadecane	593453	n-octadecane
Paraffin hydrocarbon	GCMS	<20.0	n-pentacosane	629992	n-pentacosane
Paraffin hydrocarbon	GCMS	<20.0	n-pentadecane	629629	n-pentadecane
Paraffin hydrocarbon	GCMS	<20.0	n-tetracosane	646311	n-tetracosane
Paraffin hydrocarbon	GCMS	<20.0	n-tetradecane	629594	n-tetradecane
Paraffin hydrocarbon	GCMS	<14.2	n-tetratriacontane	14167590	n-tetratriacontane
Paraffin hydrocarbon	GCMS	<13.8	n-triacontane	638686	n-triacontane
Paraffin hydrocarbon	GCMS	<0.02	n-tricosane	638675	n-tricosane
Paraffin hydrocarbon	GCMS	<20.0	n-tridecane	629505	n-tridecane
Paraffin hydrocarbon	GCMS	<12.3	n-tritriacontane	630057	n-tritriacontane
Paraffin hydrocarbon	GCMS	<20.0	n-undecane	1120214	hendecane
Paraffin hydrocarbon	GCMS	<20.0	phytane	638368	2,6,10,14-tetramethylhexadecane
Paraffin hydrocarbon	GCMS	<20.0	pristane	1921706	2,6,10,14-tetramethylpentadecane
Polychlorinated biphenyl	GCMS	<0.03	PCB-1	2051607	2-monochlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.008	PCB-10	33146451	2,6-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-103	60145213	2,2',4,5,6'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-104	56558168	2,2',4,6,6'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-105	32598144	2,3,3'4,4'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-106	70424690	2,3,3',4,5-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-107	70424689	2,3,3',4',5-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-108/124	NA	PCB-108+PCB-124
Polychlorinated biphenyl	GCMS	<0.15	PCB-11	2050671	3,3'-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-110/115	NA	PCB-110+PCB-115
Polychlorinated biphenyl	GCMS	<0.15	PCB-111	39635320	2,3,3',5,5'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-112	74472369	2,3,3',5,6-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-114	74472370	2,3,4,4',5-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-117	68194116	2,3,4',5,6-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.02	PCB-118	31508006	2,3',4,4',5-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.02	PCB-12/13	NA	PCB-12+PCB-13
Polychlorinated biphenyl	GCMS	<0.08	PCB-120	68194127	2,3',4,5,5'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-121	56558180	2,3',4,5,6-pentachlorobiphenyl

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Polychlorinated biphenyl	GCMS	<0.08	PCB-122	76842074	2',3,3',4,5-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-123	65510443	2',3,4,4',5-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-1242	53469219	Aroclor 1242 PCB mixture
Polychlorinated biphenyl	GCMS	<0.15	PCB-1248	12672296	Aroclor 1248 PCB mixture
Polychlorinated biphenyl	GCMS	<0.15	PCB-1254	11097691	Aroclor 1254 PCB mixture
Polychlorinated biphenyl	GCMS	<0.08	PCB-126	57465288	3,3',4,4',5-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-1260	11096825	Aroclor 1260 PCB mixture
Polychlorinated biphenyl	GCMS	<0.15	PCB-127	39635331	3,3',4,5,5'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-128/166	NA	PCB-128+PCB-166
Polychlorinated biphenyl	GCMS	<0.08	PCB-129/138/163	NA	PCB-129+PCB-138+PCB-163
Polychlorinated biphenyl	GCMS	<0.08	PCB-130	52663668	2,2',3,3',4,5'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-131	61798707	2,2',3,3',4,6-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-132	38380051	2,2',3,3',4,6'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-133	35694043	2,2',3,3',5,5'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-134	NA	2,2',3,3',5,6-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.10	PCB-135/151	NA	PCB-135+PCB-151
Polychlorinated biphenyl	GCMS	<0.03	PCB-136	38411222	2,2',3,3',6,6'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-137	35694065	2,2',3,4,4',5-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-139/140	NA	PCB-139+PCB-140
Polychlorinated biphenyl	GCMS	<0.15	PCB-14	34883415	3,5-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-141	52712046	2,2',3,4,5,5'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-142	41411614	2,2',3,4,5,6-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-143	68194150	2,2',3,4,5,6'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-144	68194149	2,2',3,4,5',6-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-145	74472405	2,2',3,4,6,6'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-146	51908168	2,2',3,4',5,5'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-147/149	NA	PCB-147+PCB-149
Polychlorinated biphenyl	GCMS	<0.15	PCB-148	74472416	2,2',3,4',5,6'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-15	2050682	4,4'-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-150	68194081	2,2',3,4',6,6'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-152	68194092	2,2',3,5,6,6'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-153/168	NA	PCB-153+PCB-168
Polychlorinated biphenyl	GCMS	<0.08	PCB-154	60145224	2,2',4,4',5',6-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-155	33979032	2,2',4,4',6,6'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-156/157	NA	PCB-156+PCB-157
Polychlorinated biphenyl	GCMS	<0.03	PCB-158	74472427	2,3,3',4,4',6-hexachlorobiphenyl

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Polychlorinated biphenyl	GCMS	<0.15	PCB-159	39635353	2,3,3',4,5,5'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.02	PCB-16	38444789	2,2',3-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-160	41411625	2,3,3',4,5,6-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-161	74472438	2,3,3',4,5',6-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-162	39635342	2,3,3',4',5,5'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-164	74472450	2,3,3',4',5',6-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-165	74472461	2,3,3',5,5',6-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-167	52663726	2,3,4,4',5,5'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-169	32774166	3,3',4,4',5,5'-hexachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-17	37680663	2,2',4-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-170	35065306	2,2',3,3',4,4',5-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-171/173	NA	PCB-171+PCB-173
Polychlorinated biphenyl	GCMS	<0.15	PCB-172	52663748	2,2',3,3',4,5,5'-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-174	38411255	2,2',3,3',4,5,6'-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-175	40186707	2,2',3,3',4,5',6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-176	52663657	2,2',3,3',4,6,6'-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-177	52663704	2,2',3,3',4',5,6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-178	52663679	2,2',3,3',5,5',6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-179	52663646	2,2',3,3',5,6,6'-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-18/30	NA	PCB-18+PCB-30
Polychlorinated biphenyl	GCMS	<0.15	PCB-180/193	NA	PCB-180+PCB-193
Polychlorinated biphenyl	GCMS	<0.15	PCB-181	74472472	2,2',3,4,4',5,6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-182	60145235	2,2',3,4,4',5,6'-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.16	PCB-183	52663691	2,2',3,4,4',5',6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-184	74472483	2,2',3,4,4',6,6'-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-185	52712483	2,2',3,4,5,5',6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-186	74472494	2,2',3,4,5,6,6'-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-187	52663680	2,2',3,4,5,5',6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-188	74487857	2,2',3,4',5,6,6'-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-189	39635319	2,3,3',4,4',5,5'-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.02	PCB-19	38444734	2,2',6-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-190	41411647	2,3,3',4,4',5,6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-191	74472507	2,3,3',4,4',5',6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-192	74472518	2,3,3',4,5,5',6-heptachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-194	35694087	2,2',3,3',4,4',5,5'-octachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-195	52663782	2,2',3,3',4,4',5,6-octachlorobiphenyl

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Polychlorinated biphenyl	GCMS	<0.15	PCB-196	42740501	2,2',3,3',4,4',5,6'-octachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-197	33091177	2,2',3,3',4,4',6,6'-octachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-198/199	NA	PCB-198+PCB-199
Polychlorinated biphenyl	GCMS	<0.002	PCB-2	2051618	3-monochlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-20/28	NA	PCB-20+PCB-28
Polychlorinated biphenyl	GCMS	<0.15	PCB-200	52663737	2,2',3,3',4,5,6,6'-octachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-201	40186718	2,2',3,3',4,5',6,6'-octachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-202	2136994	2,2',3,3',5,5',6,6'-octachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-203	52663760	2,2',3,4,4',5,5',6-octachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-204	74472529	2,2',3,4,4',5,6,6'-octachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-205	74472530	2,3,3',4,4',5,5',6-octachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-206	40186729	2,2',3,3',4,4',5,5',6-nonachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-207	52663793	2,2',3,3',4,4',5,6,6'-nonachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.15	PCB-208	52663771	2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-209	2051243	decachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-21/33	NA	PCB-21+PCB-33
Polychlorinated biphenyl	GCMS	<0.03	PCB-22	38444858	2,3,4'-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-23	55720440	2,3,5-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-24	55702459	2,3,6-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-25	55712373	2,3',4-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-26/29	NA	PCB-26+PCB-29
Polychlorinated biphenyl	GCMS	<0.03	PCB-27	38444767	2,3',6-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-3	2051629	4-monochlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-31	16606023	2,4',5-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-32	38444778	2,4',6-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-34	37680685	2',3,5-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-35	37680696	3,3',4-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-36	38444870	3,3',5-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-37	38444905	3,4,4'-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-38	53555661	3,4,5-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-39	38444881	3,4',5-trichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-4	13029088	2,2'-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-40/41/71	NA	PCB-40+PCB-41+PCB-71
Polychlorinated biphenyl	GCMS	<0.03	PCB-42	36559225	2,2',3,4'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-43/73	NA	PCB-43+PCB-73
Polychlorinated biphenyl	GCMS	<0.03	PCB-44/47/65	NA	PCB-44+PCB-47+PCB-65

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Polychlorinated biphenyl	GCMS	<0.03	PCB-45/51	NA	PCB-45+PCB-51
Polychlorinated biphenyl	GCMS	<0.03	PCB-46	41464475	2,2',3,6'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-48	70362479	2,2',4,5-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-49/69	NA	PCB-49+PCB-69
Polychlorinated biphenyl	GCMS	<0.08	PCB-5	16605917	2,3-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-50/53	NA	PCB-50+PCB-53
Polychlorinated biphenyl	GCMS	<0.08	PCB-52	35693993	2,2',5,5'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-54	15968055	2,2',6,6'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-55	74338242	2,3,3',4'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-56	41464431	2,3,3',4'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-57	70424678	2,3,3',5-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-58	41464497	2,3,3',5'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-59/62/75	NA	PCB-59+PCB-62+PCB-75
Polychlorinated biphenyl	GCMS	<0.008	PCB-6	25569806	2,3'-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-60	33025411	2,3,4,4'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-63	74472347	2,3,4',5-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-64	52663588	2,3,4',6-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-66	32598100	2,3',4,4'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-67	73575538	2,3',4,5-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-68	73575527	2,3',4,5'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-7	33284503	2,4-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-70/61/74/76	NA	PCB-70+PCB-61+PCB-74+PCB-76
Polychlorinated biphenyl	GCMS	<0.08	PCB-72	41464420	2,3',5,5'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-73	74338231	2,3',5',6-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-77	32598133	3,3',4,4'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-78	70362491	3,3',4,5-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-79	41464486	3,3',4,5'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-8	34883437	2,4'-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-80	33284525	3,3',5,5'-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-81	70362504	3,4,4',5-tetrachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-82	52663624	2,2',3,3',4-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-83/99	NA	PCB-83+PCB-99
Polychlorinated biphenyl	GCMS	<0.08	PCB-84	52663602	2,2',3,3',6-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.03	PCB-85/116	NA	PCB-85+PCB-116
Polychlorinated biphenyl	GCMS	<0.08	PCB-86/87/97/109/119/125	NA	PCB-86+PCB-87+PCB-97+PCB-109+PCB-119+PCB-125

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

Polychlorinated biphenyl	GCMS	<0.08	PCB-88/91	NA	PCB-88+PCB-91
Polychlorinated biphenyl	GCMS	<0.08	PCB-89	73575572	2,2',3,4,6'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-9	34883391	2,5-dichlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.20	PCB-90/101/113	NA	PCB-90+PCB-101+PCB-113
Polychlorinated biphenyl	GCMS	<0.08	PCB-92	52663613	2,2',3,5,5'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-94	73575550	2,2',3,5,6'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-95	38379996	2,2',3,5',6-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-96	73575549	2,2',3,6,6'-pentachlorobiphenyl
Polychlorinated biphenyl	GCMS	<0.08	PCB-98/100	NA	PCB-98+PCB-100
Polychlorinated biphenyl	GCMS	<0.08	PCB-98/102	NA	PCB-98+PCB-102
Polychlorinated biphenyl	GCMS	<1.51	PCB-total	1336363	Sum of all PCB congeners
Trace element	ICP-AES	<1.11	Al	7429905	Aluminum
Trace element	ICP-MS	<0.51	As	7784421	Arsenic
Trace element	ICP-AES	<0.14	B	7440428	Boron
Trace element	ICP-AES	<0.02	Ba	7440393	Barium
Trace element	ICP-AES	<0.01	Be	7440417	Beryllium
Trace element	ICP-MS	<0.01	Cd	7440439	Cadmium
Trace element	ICP-AES	<0.11	Cr	7440473	Chromium
Trace element	ICP-AES	<0.11	Cu	7440508	Copper
Trace element	ICP-AES	<0.23	Fe	7439896	Iron
Trace element	CVAAS	<0.002	Hg	7439976	Mercury
Trace element	ICP-AES	<0.23	Mg	7439954	Magnesium
Trace element	ICP-AES	<0.05	Mn	7439965	Manganese
Trace element	ICP-AES	<0.25	Mo	7439987	Molybdenum
Trace element	ICP-AES	<0.11	Ni	7440020	Nickel
Trace element	ICP-MS	<0.01	Pb	7439921	Lead
Trace element	ICP-MS	<0.02	Se	7782492	Selenium
Trace element	ICP-AES	<0.01	Sr	7440246	Strontium
Trace element	ICP-AES	<0.25	V	7440622	Vanadium
Trace element	ICP-AES	<0.13	Zn	7440666	Zinc

Table 2. Chemical names, abbreviations, analytical methods, limit of detection. ["<", less than; "NA", not available]

1-Tissue processing and analytical methods are fully described in Appendices 3A and 3B. Analytical method identifiers: GCMS, gas chromatography, mass spectroscopy; ICP-AES, inductively coupled plasma mass spectroscopy; AFS, atomic fluorescence; GC-ECP, gas chromatography, electron capture detection; ICP-MS, inductively coupled plasma mass spectroscopy; CVAAS, cold-vapor atomic absorption spectroscopy.

2-Liimit of detection reported is the lowest method detection limit for the sample batch.

3-Chemical name used in this report. PCB and BDE congeners are designated using the Ballschmiter-Zell numbering system. Certain PCB or BDE congeners will co-elute during analysis.

4-Chemical Abstract Service (CAS) number. "NA" indicates that no CAS number is available at the time of this report.

Table 3. Moisture content, methyl mercury and element concentrations in Rio Grande silvery minnow carcasses collected from six sites (Table 1; Figure 2) along the Middle Rio Grande, New Mexico, during 2006-2008, and all site data combined.

[Moisture content, methyl mercury and element concentration data are the mean±1 standard deviation with the number of fish composite samples and range of concentrations in parentheses. Means within a row that have no upper case letters are not significantly different. Means within a row with upper case letters and sharing the same upper case letter are not significantly ($P<0.05$) different. "±", plus or minus; "MRG", Middle Rio Grande; "NM", New Mexico; Site 1, MRG at Bernalillo, NM; Site 2, MRG at Alameda, NM; Site 3, MRG at Los Padillas, NM; Site 4, MRG at Los Lunas, NM; Site 5, MRG at La Joya, NM; Site 6, MRG near San Antonio, NM; "µg/g", microgram per gram; dry, dry weight basis; wet, wet weight basis; "<", less than; "%", percent]

Contaminant (Unit Basis)	1. Bernalillo	2. Alameda	3. Los Padillas	4. Los Lunas	5. La Joya	6. San Antonio	All site data combined
Aluminum (µg/g dry)	519 ± 380.7 (5; 140-1150)	406 ± 302.2 (6; 141-970)	234 ± 268.9 (6; 81-767)	315 ± 212.5 (6; 61-626)	176 ± 110.2 (5; 36.4-328)	123 ± 99.1 (5; 30.8-289)	298 ± 266.9 (33; 30.8-1150)
Aluminum (µg/g wet)	140 ± 103.2 (5; 34.7-308)	109 ± 84.6 (6; 33.6-267)	64.6 ± 77.5 (6; 22-219)	90.6 ± 69.6 (6; 17-210)	50.8 ± 34.6 (5; 9.9-102)	35.5 ± 30.4 (5; 8.8-87.3)	82.3 ± 75.0 (33; 8.8-308)
Arsenic (µg/g dry)	3.7^{A} ± 0.6 (5; 3.0-4.5)	3.5^{A} ± 0.3 (6; 3.1-3.9)	3.0^{AB} ± 0.5 (6; 2.6-3.8)	3.0^{AB} ± 0.3 (6; 2.7-3.4)	3.0^{AB} ± 0.2 (5; 2.8-3.2)	2.8^{AB} ± 0.3 (5; 2.6-3.3)	3.2^{BC} ± 0.5 (33; 2.6-4.5)
Arsenic (µg/g wet)	1.0 ± 0.2 (5; 0.8-1.2)	0.9 ± 0.1 (6; 0.8-1.1)	0.8 ± 0.1 (6; 0.7-1.0)	0.8 ± 0.1 (6; 0.7-1.0)	0.8 ± 0.1 (5; 0.8-1.0)	0.8 ± 0.1 (5; 0.7-0.9)	0.9 ± 0.1 (33; 0.7-1.2)
Barium (µg/g dry)	79.3^{A} ± 8.9 (5; 69.5-88.4)	71.4^{AB} ± 4.6 (6; 67.6-79.3)	58.7^{BC} ± 8.3 (6; 47.5-68.0)	58.0^{BC} ± 6.5 (6; 47.8-65.3)	36.6^{C} ± 12.3 (5; 22.1-54.4)	34.8^{C} ± 13.9 (5; 22.1-57.6)	57.0 ± 18.2 (33; 22.1-88.4)
Barium (µg/g wet)	21.0 ± 1.8 (5; 18.8-23.6)	18.7 ± 1.2 (6; 17.3-20.4)	15.6 ± 1.7 (6; 12.9-17.0)	16.3 ± 3.0 (6; 13.3-21.9)	10.5 ± 4.2 (5; 6.1-17.0)	9.9 ± 4.4 (5; 6.5-17.4)	15.5 ± 4.8 (33; 6.1-23.6)
Copper (µg/g dry)	9.2 ± 12.6 (5; 3.3-31.7)	13.0 ± 17.6 (6; 3.2-46.7)	5.9 ± 6.9 (6; 2.6-20.0)	5.1 ± 4.8 (6; 2.7-14.9)	2.8 ± 0.3 (5; 2.3-3.2)	3.5 ± 1.9 (5; 2.3-6.9)	6.7 ± 9.6 (33; 2.3-46.7)
Copper (µg/g wet)	2.5 ± 3.4 (5; 0.9-8.5)	3.4 ± 4.5 (6; 0.8-11.8)	1.6 ± 2.0 (6; 0.7-5.8)	1.4 ± 1.3 (6; 0.7-4.0)	0.8 ± 0.8 (5; 0.7-0.9)	1.0 ± 0.6 (5; 0.7-2.0)	1.8 ± 2.5 (33; 0.7-11.8)
Iron (µg/g dry)	589 ± 393.3 (5; 149-1180)	476 ± 325.6 (6; 181-1060)	279 ± 280.7 (6; 125-838)	375 ± 229.4 (6; 106-634)	236 ± 117.7 (5; 66.1-344)	164 ± 92.6 (5; 68.7-309)	355 ± 282.1 (33; 66.1-1180)
Iron (µg/g wet)	159 ± 107.9 (5; 37.0-316)	128 ± 92.0 (6; 45.8-292)	76.6 ± 81.1 (6; 33.5-239)	107 ± 71.2 (6; 29.5-212)	67.5 ± 35.7 (5; 18.0-107)	46.9 ± 28.3 (5; 19.7-93.3)	98.0 ± 79.4 (33; 18.0-316)
Lead (µg/g dry)	0.6 ± 0.4 (5; 0.2-1.1)	0.6 ± 0.4 (6; 0.3-1.5)	0.4 ± 0.2 (6; 0.2-0.8)	0.5 ± 0.3 (6; 0.2-0.9)	0.4 ± 0.1 (5; 0.2-0.6)	0.2 ± 0.03 (5; 0.03-0.1)	0.4 ± 0.3 (33; 0.2-1.5)
Lead (µg/g wet)	0.2 ± 0.1 (5; 0.04-0.3)	0.2 ± 0.1 (6; 0.07-0.4)	0.1 ± 0.1 (6; 0.04-0.2)	0.1 ± 0.1 (6; 0.05-0.2)	0.1 ± 0.04 (5; 0.06-0.1)	0.1 ± 0.03 (5; 0.03-0.1)	0.1 ± 0.1 (33; 0.03-0.4)

Table 3. Moisture content, methyl mercury and element concentrations in Rio Grande silvery minnow carcasses collected from six sites (Table 1; Figure 2) along the Middle Rio Grande, New Mexico, during 2006-2008, and all site data combined.

[Moisture content, methyl mercury and element concentration data are the mean±1 standard deviation with the number of fish composite samples and range of concentrations in parentheses. Means within a row that have no upper case letters are not significantly different. Means within a row with upper case letters and sharing the same upper case letter are not significantly (P<0.05) different. "±", plus or minus; "MRG", Middle Rio Grande; "NM", New Mexico; Site 1, MRG at Bernalillo, NM; Site 2, MRG at Alameda, NM; Site 3, MRG at Los Padillas, NM; Site 4, MRG at Los Lunas, NM; Site 5, MRG at La Joya, NM; Site 6, MRG near San Antonio, NM; "µg/g", microgram per gram; dry, dry weight basis; wet, wet weight basis; "<", less than; "%", percent]

Contaminant (Unit Basis)	1. Bernalillo	2. Alameda	3. Los Padillas	4. Los Lunas	5. La Joya	6. San Antonio	All site data combined
Manganese (µg/g dry)	38.4 ± 18.1 (5; 17.8-58.2)	35.5 ± 18.3 (6; 17.0-62.8)	19.9 ± 10.9 (6; 10.7-39.9)	23.9 ± 11.1 (6; 12.5-36.8)	30.6 ± 15.6 (5; 13.1-49.9)	17.8 ± 7.9 (5; 11.8-31.7)	27.6 ± 15.1 (33; 10.7-62.8)
Manganese (µg/g wet)	10.4 ± 5.2 (5; 4.4-16.1)	9.5 ± 5.4 (6; 4.3-12.9)	5.4 ± 3.2 (6; 2.9-11.4)	6.8 ± 3.6 (6; 3.4-12.3)	8.8 ± 4.9 (5; 3.6-15.6)	5.1 ± 2.5 (5; 3.5-9.6)	7.6 ± 4.4 (33; 2.9-17.9)
Magnesium (µg/g dry)	1654 ± 224.1 (5; 1410-2000)	1528 ± 100.7 (6; 1440-1700)	1462 ± 187.6 (6; 1300-1780)	1517 ± 155.9 (6; 1330-1710)	1380 ± 186.4 (5; 1150-1640)	1354 ± 128.6 (5; 1240-1530)	1484 ± 181.9 (33; 1150-2000)
Magnesium (µg/g wet)	440 ± 62.5 (5; 381-536)	401 ± 38.1 (6; 364-468)	392 ± 57.4 (6; 354-507)	426 ± 72.8 (6; 370-566)	392 ± 76.1 (5; 320-512)	385 ± 45.2 (5; 350-462)	406 ± 58.5 (33; 320-566)
Mercury (µg/g dry)	0.22 ± 0.07 (5; 0.13-0.28)	0.21 ± 0.08 (6; 0.12-0.32)	0.18 ± 0.07 (6; 0.11-0.30)	0.15 ± 0.05 (6; 0.09-0.22)	0.18 ± 0.05 (5; 0.10-0.22)	0.21 ± 0.11 (5; 0.10-0.36)	0.19 ± 0.07 (33; 0.09-0.36)
Mercury (µg/g wet)	0.06 ± 0.02 (5; 0.04-0.07)	0.06 ± 0.02 (6; 0.03-0.08)	0.05 ± 0.02 (6; 0.03-0.07)	0.04 ± 0.02 (6; 0.02-0.06)	0.05 ± 0.01 (5; 0.03-0.06)	0.06 ± 0.03 (5; 0.03-0.10)	0.05 ± 0.02 (33; 0.02-0.10)
Methyl mercury (µg/g dry)	0.18 (1)	0.21 ± 0.02 (2; 0.20-0.22)	0.20 ± 0.07 (2; 0.14-0.24)	0.17 ± 0.04 (2; 0.14-0.20)	0.16 ± 0.06 (3; 0.10-0.22)	0.31 ± 0.08 (2; 0.26-0.36)	0.20 ± 0.07 (12; 0.10-0.36)
Methyl mercury (µg/g wet)	0.05 (1)	0.05 ± 0.003 (2; 0.05-0.06)	0.05 ± 0.01 (2; 0.04-0.06)	0.05 ± 0.01 (2; 0.04-0.05)	0.05 ± 0.02 (3; 0.03-0.06)	0.09 ± 0.02 (2; 0.07-0.10)	0.06 ± 0.02 (12; 0.03-0.10)
Nickel (µg/g dry)	3.5 ± 5.5 (5; 0.7-13.3)	4.0 ± 5.1 (6; 0.5-12.9)	1.6 ± 1.6 (6; 0.2-4.6)	1.4 ± 1.1 (6; 0.2-3.2)	0.5 ± 0.4 (5; 0.2-1.1)	1.1 ± 1.3 (5; 0.2-3.5)	2.0 ± 3.2 (33; 0.2-13.3)
Nickel (µg/g wet)	0.9 ± 1.5 (5; 0.2-3.6)	1.1 ± 1.4 (6; 0.1-3.6)	0.6 ± 0.5 (6; 0.1-0.8)	0.4 ± 0.3 (6; 0.1-0.9)	0.2 ± 0.1 (5; 0.1-0.3)	0.3 ± 0.4 (5; 0.1-1.0)	0.6 ± 0.9 (33; 0.1-3.6)
Selenium (µg/g dry)	1.9 ± 0.3 (5; 1.4-2.1)	2.0 ± 0.3 (6; 1.7-2.4)	1.8 ± 0.4 (6; 1.3-2.5)	1.8 ± 0.2 (6; 1.5-2.1)	2.2 ± 0.7 (5; 1.4-3.2)	1.9 ± 0.6 (5; 1.4-2.8)	1.9 ± 0.4 (33; 1.3-3.2)
Selenium (µg/g wet)	0.5 ± 0.1 (5; 0.4-0.6)	0.5 ± 0.1 (6; 0.4-0.7)	0.5 ± 0.1 (6; 0.4-0.6)	0.5 ± 0.1 (6; 0.4-0.6)	0.6 ± 0.2 (5; 0.4-0.9)	0.6 ± 0.2 (5; 0.4-0.8)	0.5 ± 0.1 (33; 0.3-0.9)

Table 3. Moisture content, methyl mercury and element concentrations in Rio Grande silvery minnow carcasses collected from six sites (Table 1; Figure 2) along the Middle Rio Grande, New Mexico, during 2006-2008, and all site data combined.

[Moisture content, methyl mercury and element concentration data are the mean±1 standard deviation with the number of fish composite samples and range of concentrations in parentheses. Means within a row that have no upper case letters are not significantly different. Means within a row with upper case letters and sharing the same upper case letter are not significantly ($P<0.05$) different. "±", plus or minus; "MRG", Middle Rio Grande; "NM", New Mexico; Site 1, MRG at Bernalillo, NM; Site 2, MRG at Alameda, NM; Site 3, MRG at Los Padillas, NM; Site 4, MRG at Los Lunas, NM; Site 5, MRG at La Joya, NM; Site 6, MRG near San Antonio, NM; "µg/g", microgram per gram; dry, dry weight basis; wet, wet weight basis; "<", less than; "%", percent]

Contaminant (Unit Basis)	**1. Bernalillo**	**2. Alameda**	**3. Los Padillas**	**4. Los Lunas**	**5. La Joya**	**6. San Antonio**	**All site data combined**
Strontium (µg/g dry)	136 ± 22.9 (5; 107-162)	137 ± 24.0 (6; 105-176)	137 ± 24.4 (6; 104-164)	126 ± 15.3 (5; 108-154)	149 ± 23.4 (5; 128-187)	153 ± 35.9 (5; 98.8-186)	139 ± 24.4 (33; 98.8-187)
Strontium (µg/g wet)	36.1 ± 5.3 (5; 28.9-43.4)	35.7 ± 3.9 (5; 29.9-41.9)	36.6 ± 6.5 (5; 28.3-46.7)	36.1 ± 5.3 (5; 28.9-43.4)	42.5 ± 9.1 (5; 36.5-58.3)	43.4 ± 10.5 (5; 28.4-51.3)	38.1 ± 7.6 (33; 28.3-58.3)
Vanadium (µg/g dry)	1.6 ± 1.0 (5; 0.6-3.2)	1.5 ± 0.6 (6; 0.9-2.5)	1.1 ± 0.9 (6; 0.2-0.9)	1.1 ± 0.6 (6; 0.2-1.7)	0.8 ± 0.4 (5; 0.2-1.2)	0.7 ± 0.3 (5; 0.2-1.1)	1.1 ± 0.7 (33; 0.2-3.2)
Vanadium (µg/g wet)	0.4 ± 0.3 (5; 0.1-0.8)	0.4 ± 0.2 (6; 0.2-0.7)	0.3 ± 0.3 (6; 0.1-0.8)	0.3 ± 0.2 (6; 0.1-0.6)	0.2 ± 0.1 (5; 0.1-0.4)	0.2 ± 0.1 (5; 0.1-0.4)	0.3 ± 0.2 (33; 0.1-0.8)
Zinc (µg/g dry)	149 ± 11.8 (5; 136-165)	143 ± 19.2 (6; 122-179)	139 ± 13.3 (6; 119-159)	136 ± 19.6 (6; 114-170)	130 ± 18.6 (5; 112-153)	134 ± 19.7 (5; 110-165)	139 ± 17.1 (33; 110-179)
Zinc (µg/g wet)	39.6 ± 2.9 (5; 36.3-42.3)	37.4 ± 3.8 (6; 33.3-42.6)	37.2 ± 2.5 (6; 34.5-41.9)	38.3 ± 9.5 (6; 31.7-57.0)	36.9 ± 7.1 (5; 30.6-45.6)	38.3 ± 7.3 (5; 29.8-49.8)	37.9 ± 5.7 (33; 29.8-57.0)
Moisture Content (%)	72.7 ± 1.6 (7; 69.9-75.0)	72.8 ± 1.7 (8; 69.8-74.6)	71.7 ± 1.5 (8; 70.0-74.9)	71.8 ± 2.7 (8; 66.8-76.4)	70.9 ± 1.5 (7; 69.5-73.7)	71.7 ± 1.8 (6; 69.5-74.5)	71.9 ± 1.9 (44; 66.8-76.4)

Appendix 3A. Inorganic Analytical Results for Rio Grande Silvery Minnow Health Study Catalog 2020128 by Trace Element Research Laboratory, College Station, Texas.

Table 4. Concentrations of elements and moisture content in whole fish or carcasses collected from the Rio Grande and collected nationwide.

[Moisture content and element data are mean ± 1 standard deviation with the number of fish composite samples and range of concentrations in parenthesis. "NCBP", National Contaminant Biomonitoring Program; "µg/g wet", micrograms per gram on a wet weight basis; "%", percent]

Element	This study	Abeyta and Lusk 2004	Roy et al. 1992	Schmitt et al. 2004	Mora 2001 (est. wet weight using 72.1% moisture)	Schmitt et al. 1999 (NCBP)
Aluminum (µg/g wet)	82.3 ± 75.0 (33; 8.8-308)		45.3 ± 60.15 (109; 0.4-364.3)	16.1 ± 11.6 (47; 6.4-61.8)	43.9 ± 106.8 (23; 2.1-477)	
Arsenic (µg/g wet)	0.9 ± 0.1 (33; 0.7-1.2)	0.3 ± 0.2 (27; 0.1-0.7)	0.1 ± 0.2 (94; 0.01-0.8)	0.2 ± 0.1 (47; 0.03-0.6)	0.2 ± 0.4 (55; <0.01-2.6)	0.2 ± 0.2 (2873; 0.01-3.4)
Barium (µg/g wet)	15.5 ± 4.8 (33; 6.1-23.6)		2.9 ± 2.5 (93; 0.15-17.3)	1.2 ± 0.9 (47; 0.2-3.7)	1.0 ± 1.5 (23; 0.1-7.1)	
Copper (µg/g wet)	1.8 ± 2.5 (33; 0.7-11.8)	1.5 ± 1.8 (27; 0.7-8.9)	1.63 ± 1.0 (112; 0.32-6.14)	0.9 ± 0.4 (47; 0.3-1.8)	0.5 ± 0.5 (51; 0.1-2.7)	1.0 ± 1.6 (1255; 0.1-38.8)
Iron (µg/g wet)	98.0 ± 79.4 (33; 18.0-316)		82.5 ± 93.5 (112; 10.7-552)	107 ± 110 (47; 11.2-524)	43.6 ± 83.1 (22; 3.5-356)	
Lead (µg/g wet)	0.1 ± 0.1 (33; 0.03-0.4)	0.1 ± 0.1 (27; 0.03-0.4)	0.5 ± 0.4 (88; 0.1-1.7)	0.1 ± 0.1 (47; 0.01-0.8)	0.2 ± 0.1 (42; 0.01-0.6)	0.2 ± 0.4 (2873; <0.01-6.7)
Manganese (µg/g wet)	7.6 ± 4.4 (33; 2.9-17.9)		(8.5 ± 7.4) (112; 0.8-51.3)	(4.4 ± 2.5) (47; 1.0-9.9)	(4.5 ± 4.1) (17; 1.0-12.5)	
Magnesium (µg/g wet)	406 ± 58.5 (33; 320-566)		(344 ± 77.5) (112; 221-645)	(321 ± 62.8) (47; 217-480)	(280 ± 117) (22; 189-634)	
Mercury (µg/g wet)	0.05 ± 0.02 (33; 0.02-0.10)	(0.04 ± 0.03) (0.03; 0.01-0.16)	(0.07 ± 0.05) (112; 0.01-0.24)	(0.13 ± 0.09) (47; 0.01-0.46)	(0.07 ± 0.05) (75; 0.01-0.22)	(0.15 ± 0.18) (3410; <0.01-4.5)
Nickel (µg/g wet)	0.6 ± 0.9 (33; 0.1-3.6)	(0.3 ± 0.3) (15; 0.03-1.1)	(0.4 ± 0.3) (91; 0.02-2.23)	(0.7 ± 0.8) (47; 0.2-4.2)	(0.3 ± 0.9) (20; 0.01-3.9)	
Selenium (µg/g wet)	0.5 ± 0.1 (33; 0.3-0.9)	(0.8 ± 0.7) (27; 0.2-3.3)	(0.4 ± 0.3) (112; 0.07-1.3)	(0.7 ± 0.4) (47; 0.2-1.9)	(0.3 ± 0.2) (75; <0.01-0.9)	(0.5 ± 0.5) (2205; 0.03-6.6)
Strontium (µg/g wet)	38.1 ± 7.6 (33; 28.3-58.3)		(26.0 ± 15.2) (100; 5.3-68.4)	(33.7 ± 17.3) (47; 5.9-78.4)	(41.5 ± 22.7) (23; 13.5-108)	
Vanadium (µg/g wet)	0.3 ± 0.2 (33; 0.1-0.8)		(0.4 ± 0.3) (63; 0.03-1.7)	(0.1 ± 0.1) (47; 0.05-0.4)	(0.2 ± 0.2) (20; 0.03-0.8)	
Zinc (µg/g wet)	37.9 ± 5.7 (33; 29.8-57.0)	(59.2 ± 57.7) (27; 21.3-230)	(32.5 ± 16.3) (112; 9.8-83.2)	(39.3 ± 23.9) (47; 11.1-83.6)	(12.9 ± 13.2) (53; 0.9-76.5)	(29.8 ± 22.8) (1255; 7.7-168)
Moisture (percent)	71.9 ± 1.9 (33; 66.5-76.6)	(77.8 ± 2.7) (7; 75-83)	(73.0 ± 4.9) (112; 56.5-82.6)	(72.9 ± 3.0) (47; 65.3-79.8)		(72.1 ± 4.5) (1421; 43.5-86.2)

Table 5. Carcass concentrations of organic chemicals and lipid content in Rio Grande silvery minnow collected from 6 sites along the Middle Rio Grande, New Mexico, during 2006-2008, (Table 1, Figure 1) and grouped into river sections including the Upper Sites, Middle Sites, and Lower Sites, as well as all data combined.

[Organic chemical concentration data are mean ± 1 standard deviation with the number of fish composite samples and range of concentrations in parenthesis. Means within a row that have no upper case letters are not significantly different. Means within a row with upper case letters and sharing the same upper case letter are not significantly (P<0.05) different. "±", plus or minus; "MRG", Middle Rio Grande; "NM", New Mexico; Site 1. MRG at Bernalillo, NM; Site 2. MRG at Alameda, NM; Site 3. MRG at Los Padillas, NM; Site 4. MRG at Los Lunas, NM; Site 5. MRG at La Joya, NM; Site 6. MRG near San Antonio, NM; µg/kg, microgram per kilogram; wet weight; <, less than]

Organic Chemical (µg/kg wet weight)	Upper Sites (Site 1 & Site 2 combined)	Middle Sites (Site 3 & Site 4 combined)	Lower Sites (Site 5 & Site 6 combined)	All Sites Combined
Lipid (percent)	5.9 ± 1.3 (10; 4.1-7.7)	7.0 ± 1.7 (10; 5.0-10.8)	6.9 ± 1.1 (7; 5.6-8.0)	6.9 ± 1.4 (27; 4.1-10.8)
alpha chlordane	1.5 ± 0.9^{A} (4; 0.3-2.5)	7.1 ± 1.6^{B} (4; 5.7-9.4)	2.3 ± 1.3^{AB} (4; 0.4-3.2)	3.6 ± 2.9 (12; 0.3-9.4)
cis-nonachlor	0.7 ± 0.4^{A} (4; 0.2-1.2)	3.0 ± 0.6^{B} (4; 2.2-3.4)	1.1 ± 0.7^{AB} (4; 0.3-1.7)	1.6 ± 1.1 (12; 0.2-3.4)
dieldrin	0.5 ± 0.3^{A} (4; 0.1-0.9)	3.3 ± 0.8^{B} (4; 2.5-4.2)	1.5 ± 1.0^{AB} (4; 0.4-2.8)	1. 8 ± 1.4 (12; 0.1-4.2)
o,p'-DDE	0.3 ± 0.2 (4; 0.1-0.5)	0.5 ± 0.2 (4; 0.4-0.7)	0.4 ± 0.3 (4; 0.2-0.9)	0.4 ± 0.2 (12; 0.1-0.9)
p,p'-DDD	1.2 ± 0.5^{A} (4; 0.7-1.8)	2.4 ± 0.6^{A} (4; 1.8-3.0)	1.2 ± 0.4^{A} (4; 0.8-1.6)	1.6 ± 0.7 (12; 0.7-3.0)
p,p'-DDE	10.2 ± 2.9^{A} (4; 7.8-13.9)	20.8 ± 3.4^{B} (4; 17.4-24.6)	11.6 ± 2.4^{A} (4; 8.7-13.7)	14.2 ± 6.0 (12; 7.8-24.6)
p,p'-DDT	0.2 ± 0.06^{A} (4; 0.2-0.3)	0.7 ± 0.1^{B} (4; 0.7-0.8)	0.2 ± 0.1^{A} (4; 0.1-0.4)	0.4 ± 0.3 (12; 0.1-0.8)
DDT-total	12.5 ± 4.1^{A} (4; 8.8-17.1)	25.8 ± 4.5^{B} (4; 21.2-30.7)	14.4 ± 2.6^{A} (4; 11.5-17.4)	17.5 ± 7.0 (12; 8.8-30.7)
endosulfan I	1.1 ± 0.7^{A} (4; 0.4-1.7)	3.5 ± 0.8^{B} (4; 2.5-4.2)	1.6 ± 0.8^{AB} (4; 0.6-2.4)	2.1 ± 1.3 (12; 0.3-4.2)
endosulfan sulfate	1.3 ± 0.8^{A} (4; 0.4-2.4)	4.1 ± 0.6^{B} (4; 3.2-4.6)	1.7 ± 1.0^{AB} (4; 0.5-2.8)	2.4 ± 1.5 (12; 0.4-4.6)
gamma chlordane	0.8 ± 0.5^{A} (4; 0.1-1.2)	3.8 ± 1.1^{B} (4; 3.2-5.5)	1.1 ± 0.7^{AB} (4; 0.2-1.6)	1. 9 ± 1.6 (12; 0.1-5.5)
hexachlorobenzene	0.3 ± 0.2 (4; 0.1-0.6)	0.6 ± 0.2 (4; 0.4-0.8)	0.3 ± 0.1 (4; 0.1-0.4)	0.4 ± 0.2 (12; 0.1-0.8)
pentachlorobenezene	2.5 ± 0.2 (4; 2.2-2.6)	3.0 ± 0.2 (4; 2.7-3.2)	3.1 ± 0.5 (4; 2.5-3.8)	2.8 ± 0.4 (12; 2.2-3.8)
pentachloroanisole	0.2 ± 0.2 (4; 0.1-0.5)	0.8 ± 0.3 (4; 0.4-1.1)	0. 6 ± 0.5 (4; 0.3-1.4)	0.5 ± 0.4 (12; 0.1-1.4)
trans-nonachlor	2.1 ± 1.2^{A} (4; 0.4-3.4)	8.7 ± 1.5^{B} (4; 7.21-10.7)	2.8 ± 1.6^{AB} (4; 0.6-4.1)	4.5 ± 3.4 (12; 0.4-10.7)
BDE-100	4.3 ± 2.7^{A} (4; 1.0-6.8)	24.2 ± 15.6^{B} (4; 8.9-44.7)	9.4 ± 6.0^{AB} (3; 3.5-15.5)	12.9 ± 12.9 (11; 1-44.7)
BDE-154	1.2 ± 0.7^{A} (4; 0.4-1.9)	6.9 ± 4.3^{B} (4; 2.7-12.8)	2.7 ± 1.5^{AB} (3; 1.2-4.2)	3.7 ± 3.6 (11; 0.4-12.8)
BDE-206	0.5 ± 0.3 (4; 0.4-0.7)	0.3 ± 0.3 (4; 0.1-0.6)	0.2 ± 0.3 (3; 0.1-0.5)	0.5 ± 0.1 (11; 0.4-0.7)
BDE-28	1.5 ± 1.1 (4; 0.3-2.7)	4.5 ± 3.1 (4; 1.7-8.5)	2.1 ± 1.5 (3; 0.6-3.6)	2.8 ± 2.4 (11; 0.3-8.5)
BDE-47	31.8 ± 21.6^{A} (4; 6.0-50.6)	214 ± 140^{B} (4; 75.1-385)	74.7 ± 50.3^{AB} (3; 26.6-127)	110 ± 117 (11; 6.0-385)

Table 5. Carcass concentrations of organic chemicals and lipid content in Rio Grande silvery minnow collected from 6 sites along the Middle Rio Grande, New Mexico, during 2006-2008, (Table 1, Figure 1) and grouped into river sections including the Upper Sites, Middle Sites, and Lower Sites, as well as all data combined.

[Organic chemical concentration data are mean ± 1 standard deviation with the number of fish composite samples and range of concentrations in parenthesis. Means within a row that have no upper case letters are not significantly different. Means within a row with upper case letters and sharing the same upper case letter are not significantly (P<0.05) different. "±", plus or minus; "MRG", Middle Rio Grande; "NM", New Mexico; Site 1. MRG at Bernalillo, NM; Site 2. MRG at Alameda, NM; Site 3. MRG at Los Padillas, NM; Site 4. MRG at Los Lunas, NM; Site 5. MRG at La Joya, NM; Site 6. MRG near San Antonio, NM; µg/kg, microgram per kilogram; wet weight; <, less than]

Organic Chemical (µg/kg wet weight)	Upper Sites (Site 1 & Site 2 combined)	Middle Sites (Site 3 & Site 4 combined)	Lower Sites (Site 5 & Site 6 combined)	All Sites Combined
BDE-49/71	1.3 ± 1.0 (4;0.1-2.1)	5.9 ± 4.7 (4; 2.0-12.5)	3.8 ± 2.8 (3; 1.0-6.5)	3.6 ± 3.6 (11; 0.1-12.5)
BDE-total	43.4 ± 26.9^{A} (4; 11.0-66.7)	265 ± 171^{B} (4; 94.6-477)	96.7 ± 63.3^{AB} (3; 35.7-162)	138 ± 142 (11; 11.0-477)
PCB-total	8.9 ± 2.4^{A} (4; 5.7-11.1)	26.9 ± 9.0^{B} (4; 16.2-38.2)	10.1 ± 4.3^{A} (4; 4.8-15.0)	15.3 ± 10.1 (12; 4.8-38.2)
PCB-1254	3.8 ± 1.1^{A} (4; 2.6-5.1)	13.8 ± 9.7^{B} (4; 4.9-26.7)	4.2 ± 1.2^{A} (4; 3.2-5.8)	7.3 ± 7.0 (12; 2.6-26.7)
PCB-1260	4.1 ± 3.5 (4; 0.8-7.8)	11.2 ± 6.4 (4; 3.8-19.3)	5.6 ± 4.3 (4; 0.1-10.5)	6.9 ± 5.4 (12; 0.1-19.3)
PCB-105	0.09 ± 0.03^{A} (4; 0.06-0.12)	0.32 ± 0.23^{A} (4; 0.11-0.63)	0.10 ± 0.04^{A} (4; 0.05-0.13)	0.17 ± 0.17 (12; 0.05-0.63)
PCB-129/138/163	0.67 ± 0.29^{A} (4; 0.26-0.89)	2.40 ± 0.90^{B} (4; 1.3-3.5)	0.88 ± 0.43^{A} (4; 0.35-1.36)	1.32 ± 0.97 (12; 0.27-3.5)
PCB-132	0.14 ± 0.07^{A} (4; 0.05-0.22)	0.57 ± 0.24^{B} (4; 0.31-0.88)	0.20 ± 0.09^{A} (4; 0.09-0.29)	0.31 ± 0.24 (12; 0.05-0.88)
PCB-141	0.12 ± 0.07^{A} (4; 0.05-0.22)	0.48 ± 0.14^{B} (4; 0.31-0.65)	0.17 ± 0.08^{A} (4; 0.06-0.25)	0.25 ± 0.19 (12; 0.05-0.65)
PCB-153/168	0.7 ± 0.4^{A} (4; 0.3-1.0)	2.3 ± 0.7^{B} (4; 1.4-3.1)	0.9 ± 0.5^{AB} (4; 0.4-1.4)	1.3 ± 0.9 (12; 0.3-3.1)
PCB-180/193	0.49 ± 0.34^{A} (4; 0.222-0.981)	2.11 ± 0.55^{B} (4; 1.4-2.66)	0.75 ± 0.47^{AB} (4; 0.18-1.32)	1.12 ± 0.85 (12; 0.18-2.66)
PCB-187	0.28 ± 0.17^{A} (4; 0.11-0.47)	0.94 ± 0.25^{B} (4; 0.66-1.24)	0.38 ± 0.23^{AB} (4; 0.11-0.67)	0.53 ± 0.37 (12; 0.11-1.24)
PCB-2	0.003 ± 0.0008^{ABC} (4; 0.003-0.005)	0.004 ± 0.0002^{AB} (4; 0.004-0.004)	0.003 ± 0.0003^{AC} (4; 0.002-0.003)	0.003 ± 0.001 (12; 0.002-0.005)
PCB-52	0.16 ± 0.03^{A} (4; 0.12-0.18)	0.38 ± 0.21^{B} (4; 0.23-0.69)	0.13 ± 0.03^{A} (4; 0.09-0.16)	0.22 ± 0.16 (12; 0.10-0.69)
PCB-83/99	0.14 ± 0.11 (4; 0.05-0.28)	0.43 ± 0.29 (4; 0.17-0.83)	0.14 ± 0.04 (4; 0.09-0.18)	0.24 ± 0.22 (12; 0.05-0.83)
PCB-190	<0.10 ± 0.0 (4; <0.10-<0.10)	0.17 ± 0.04 (4; 0.12-0.21)	0.06 ± 0.04 (4; <0.10-0.11)	0.09 ± 0.07 (12; <0.10-0.21)
n-decane	124 ± 107 (2; 47.9-199)	68 ± 2.5 (2; 66.0-69.5)	90 (1)	95 ± 60.3 (5; 47.9-199)
n-hexacosane	153 ± 89 (2; 90.7-216)	429 ± 165 (2; 312-545)	567 (1)	346 ± 207 (5; 90.7-567)
n-hexadecane	304 ± 46.7 (2; 271-337)	815 ± 48.8 (2; 780-849)	517 (1)	551 ± 258 (5; 271-849)
n-nonadecane	319 ± 141 (2; 219-419)	2747 ± 3639 (2; 173-5320)	825 (1)	1391 ± 2211 (5; 173-5320)
n-octadecane	3055 ± 431 (2; 2750-3360)	5855 ± 1506 (2; 4790-6920)	4660 (1)	4496 ± 1607 (5; 2750-6920)

Table 5. Carcass concentrations of organic chemicals and lipid content in Rio Grande silvery minnow collected from 6 sites along the Middle Rio Grande, New Mexico, during 2006-2008, (Table 1, Figure 1) and grouped into river sections including the Upper Sites, Middle Sites, and Lower Sites, as well as all data combined.

[Organic chemical concentration data are mean ± 1 standard deviation with the number of fish composite samples and range of concentrations in parenthesis. Means within a row that have no upper case letters are not significantly different. Means within a row with upper case letters and sharing the same upper case letter are not significantly (P<0.05) different. "±", plus or minus; "MRG", Middle Rio Grande; "NM", New Mexico; Site 1. MRG at Bernalillo, NM; Site 2. MRG at Alameda, NM; Site 3. MRG at Los Padillas, NM; Site 4. MRG at Los Lunas, NM; Site 5. MRG at La Joya, NM; Site 6. MRG near San Antonio, NM; µg/kg, microgram per kilogram; wet weight; <, less than]

Organic Chemical (µg/kg wet weight)	Upper Sites (Site 1 & Site 2 combined)	Middle Sites (Site 3 & Site 4 combined)	Lower Sites (Site 5 & Site 6 combined)	All Sites Combined
n-pentacosane	779 ± 639 (2; 327-1230)	640 ± 291 (2; 434-846)	353 (1)	638 ± 392 (5; 327-1230)
n-pentadecane	4380 ± 1739 (2; 3150-5610)	8945 ± 3189 (2; 6690-11200)	2870 (1)	5904 ± 3374 (5; 2870-11200)
n-tetracosane	387 ± 248 (2; 211-562)	79 ± 16 (2; 67.1-90.2)	134 (1)	213 ± 203 (5; 67.1-562)
n-tridecane	251 ± 117 (2; 168-333)	745 ± 237 (2; 577-912)	1090 (1)	616 ± 385 (5; 168-1090)
n-undecane	9271 ± 13052 (2; 41-18500)	83 ± 15 (2; 73-93)	91 (1)	3760 ± 8240 (5; 41-18500)
phytane	190 ± 21 (2; 175-204)	395 ± 47 (2; 362-428)	278 (1)	289 ± 106 (5; 175-428)
pristane	184 ± 73 (2; 132-235)	280 ± 40 (2; 251-308)	210 (1)	227 ± 64 (5; 132-308)
acenaphthalene	0. 5 ± 0.1 (2; 0.4-0.5)	1.2 ± 0.2 (2; 1-1.3)	0.7 (1)	0.8 ± 0.4 (5; 0.4-1.3)
acenaphthene	0.2 ± 0 (2; 0.2-0.2)	0.7 ± 0 (2; 0.7-0.7)	0.5 (1)	0.5 ± 0.3 (5; 0.2-0.7)
anthracene	0.3 ± 0 (2; 0.3-0.3)	0.5 ± 0.1 (2; 0.4-0.5)	0.3 (1)	0.4 ± 0.1 (5; 0.3-0.5)
chrysene	0.5 ± 0 (2; 0.5-0.5)	0.7 ± 0.3 (2; 0.5-0.9)	0.2 (1)	0.5 ± 0.2 (5; 0.2-0.9)
fluoranthene	1.4 ± 0.6 (2; 1.0-1.8)	2 ± 1.1 (2; 1.2-2.8)	0.5 (1)	1.5 ± 0.9 (5; 0.5-2.8)
fluorene	1.4 ± 0.2 (2; 1.2-1.5)	2.1 ± 0.2 (2; 1.9-2.2)	1.4 (1)	1.6 ± 0.4 (5; 1.2-2.2)
naphthalene	13.5 ± 0.6 (2; 13.0-13.9)	15.1 ± 0.42 (2; 14.8-15.4)	17.3 (1)	14.9 ± 1.6 (5; 13.0-17.3)
C1-naphthalenes	5.9 ± 1.3 (2; 5.0-6.8)	6.0 ± 0 (2; 6.0-6.0)	3.8 (1)	5.5 ± 1.2 (5; 3.8-6.8)
C2-naphthalenes	3.0 ± 1.0 (2; 2.3-3.7)	3.7 ± 0.14 (2; 3.6-3.8)	2.7 (1)	3.2 ± 0.7 (5; 2.3-3.8)
C3-naphthalenes	1.0 ± 0.01 (2; 1.0-1.0)	2.8 ± 0.21 (2; 2.6-2.9)	1.0 (1)	1.7 ± 1.0 (5; 1.0-2.9)
phenanthrene	3.8 ± 1.3 (2; 2.9-4.7)	4.7 ± 0.4 (2; 4.4-5)	1.9 (1)	3.8 ± 1.3 (5; 1.9-5)
pyrene	0.7 ± 0.1 (2; 0.6-0.8)	1.3 ± 0.8 (2; 0.7-1.8)	0.2 (1)	0.8 ± 0.6 (5; 0.2-1.8)

Analytical Results Report TOC

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1. ECDMS Analytical Results Report 5/27/2010

Catalog Number	Purchase Order Number	Lab ID	Catalog Submitter	ECDMS User ID
2020128	94420-09-Y004	TERL	Lusk, Joel - Albuquerque, NM	r2alfo

Catalog Title	Rio Grande Silvery Minnow Health Study
Lab Name:	Trace Element Research Laboratory

Notes, Symbols and Abbreviations Used
Based on the report options selected the report should be **printed in landscape mode**
Notes, Symbols and Abbreviations Used The following may appear before a reported result (e.g. < 1234). < - Less than symbol indicates that the actual result is less than the reported detection limit. > - Greater than symbol indicates that the actual result is greater than the reported result.
All results are reported as 3 significant digits.
All results are reported as parts per million (ppm), or percent, unless otherwise noted.

1. Integrity Report

Lab Receipt Date	10/01/2009	Lab Approval Date	10/01/2009

Catalog Problems
No problems reported
Problem Resolution

2. Bulk Data

Sample Number	Sample Matrix	Sample Weight (grams)	Percent Moisture
1-07-2	Partial Carcass	34.582	76.2
1-07-3	Partial Carcass	87.213	76.6
1-07-5	Partial Carcass	33.67	72.2
1-07-6	Partial Carcass	102.092	72.9
1-08-1	Partial Carcass	4.752	75.2
1-08-2	Partial Carcass	4.685	74.7
1-08-3	Partial Carcass	4.725	73.2
1-08-4	Partial Carcass	4.509	72.6
1-08-5	Partial Carcass	65.723	72.7
1-08-6	Partial Carcass	4.595	70.7
2-07-4	Partial Carcass	103.398	72.2
4-07-1	Partial Carcass	56.026	74.1
4-07-2	Partial Carcass	37.471	75.3
4-07-3	Partial Carcass	30.856	74.0
4-07-4	Partial Carcass	60.238	74.3
4-07-5	Partial Carcass	27.374	73.5
4-08-1	Partial Carcass	4.255	73.0
4-08-2	Partial Carcass	4.405	72.0
4-08-3	Partial Carcass	4.302	71.0
4-08-4	Partial Carcass	4.676	73.0
4-08-6	Partial Carcass	4.405	73.3
7-06-1	Partial Carcass	3.869	73.2
7-06-2	Partial Carcass	4.069	72.5
7-06-3	Partial Carcass	3.891	71.5
7-06-4	Partial Carcass	4.417	66.5
7-06-5	Partial Carcass	4.199	68.8
7-06-6	Partial Carcass	4.354	69.8
7-08-1	Partial Carcass	62.399	71.6
7-08-2	Partial Carcass	53.332	71.5
7-08-3	Partial Carcass	23.286	72.8
7-08-4	Partial Carcass	35.884	73.5

Sample Number	Sample Matrix	Sample Weight (grams)	Percent Moisture
7-08-5	Partial Carcass	18.078	71.5
7-08-6	Partial Carcass	23.443	71.3
06385810	Water	125	

4. Contaminant Concentrations

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
06385810						
	Aluminum	Water			0.905	0.00500
	Arsenic	Water			0.00440	0.0000500
	Boron	Water			0.116	0.00500
	Barium	Water			0.106	0.00100
	Beryllium	Water			< 0.000500	0.000500
	Cadmium	Water			0.000260	0.0000100
	Chromium	Water			< 0.00500	0.00500
	Copper	Water			0.0130	0.00500
	Iron	Water			1.04	0.0100
	Mercury	Water			0.00000300	0.00000100
	Magnesium	Water			4.48	0.0200
	Manganese	Water			0.0750	0.00200
	Molybdenum	Water			< 0.0100	0.0100
	Nickel	Water			0.00800	0.00500
	Lead	Water			0.0120	0.0000500
	Selenium	Water			0.000200	0.000100
	Strontium	Water			0.264	0.000500
	Vanadium	Water			0.00700	0.00500
	Zinc	Water			0.0700	0.00200
1-07-2						
	Aluminum	Partial Carcass	141	0.462	33.6	0.110
	Arsenic	Partial Carcass	3.50	0.0462	0.833	0.0110
	Boron	Partial Carcass	< 0.462	0.462	< 0.110	0.110
	Barium	Partial Carcass	79.3	0.0920	18.9	0.0219
	Beryllium	Partial Carcass	< 0.0462	0.0462	< 0.0110	0.0110
	Cadmium	Partial Carcass	0.0695	0.00924	0.0165	0.00220

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Chromium	Partial Carcass	< 0.462	0.462	< 0.110	0.110
	Copper	Partial Carcass	3.30	0.462	0.785	0.110
	Iron	Partial Carcass	203	0.920	48.3	0.219
	Mercury	Partial Carcass	0.315	0.00510	0.0750	0.00121
	Magnesium	Partial Carcass	1550	1.85	369	0.440
	Manganese	Partial Carcass	24.0	0.185	5.71	0.0440
	Molybdenum	Partial Carcass	< 0.920	0.920	< 0.219	0.219
	Nickel	Partial Carcass	0.472	0.462	0.112	0.110
	Lead	Partial Carcass	0.416	0.0462	0.0990	0.0110
	Selenium	Partial Carcass	2.16	0.0462	0.514	0.0110
	Strontium	Partial Carcass	176	0.0462	41.9	0.0110
	Vanadium	Partial Carcass	1.26	0.462	0.300	0.110
	Zinc	Partial Carcass	179	0.185	42.6	0.0440
	Methyl Mercury	Partial Carcass	0.221	0.00845	0.0526	0.00201
1-07-3						
	Aluminum	Partial Carcass	95.6	0.431	22.4	0.101
	Arsenic	Partial Carcass	3.43	0.0431	0.803	0.0101
	Boron	Partial Carcass	< 0.431	0.431	< 0.101	0.101
	Barium	Partial Carcass	68.0	0.0860	15.9	0.0201
	Beryllium	Partial Carcass	< 0.0431	0.0431	< 0.0101	0.0101
	Cadmium	Partial Carcass	0.0371	0.00862	0.00868	0.00202
	Chromium	Partial Carcass	< 0.431	0.431	< 0.101	0.101
	Copper	Partial Carcass	3.20	0.431	0.749	0.101
	Iron	Partial Carcass	151	0.860	35.3	0.201
	Mercury	Partial Carcass	0.296	0.00480	0.0693	0.00112
	Magnesium	Partial Carcass	1590	1.72	372	0.402
	Manganese	Partial Carcass	16.4	0.172	3.84	0.0402
	Molybdenum	Partial Carcass	< 0.860	0.860	< 0.201	0.201
	Nickel	Partial Carcass	0.537	0.431	0.126	0.101

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Lead	Partial Carcass	0.395	0.0431	0.0924	0.0101
	Selenium	Partial Carcass	2.52	0.0431	0.590	0.0101
	Strontium	Partial Carcass	147	0.0431	34.4	0.0101
	Vanadium	Partial Carcass	0.852	0.431	0.199	0.101
	Zinc	Partial Carcass	159	0.172	37.2	0.0402
	Methyl Mercury	Partial Carcass	0.241	0.0101	0.0564	0.00236
1-07-5						
	Aluminum	Partial Carcass	109	0.425	30.3	0.118
	Arsenic	Partial Carcass	2.96	0.0425	0.823	0.0118
	Boron	Partial Carcass	0.477	0.425	0.133	0.118
	Barium	Partial Carcass	22.1	0.0850	6.14	0.0236
	Beryllium	Partial Carcass	< 0.0425	0.0425	< 0.0118	0.0118
	Cadmium	Partial Carcass	< 0.00851	0.00851	< 0.00237	0.00237
	Chromium	Partial Carcass	< 0.425	0.425	< 0.118	0.118
	Copper	Partial Carcass	2.69	0.425	0.748	0.118
	Iron	Partial Carcass	162	0.850	45.0	0.236
	Mercury	Partial Carcass	0.198	0.00490	0.0550	0.00136
	Magnesium	Partial Carcass	1150	1.70	320.	0.473
	Manganese	Partial Carcass	16.3	0.170	4.53	0.0473
	Molybdenum	Partial Carcass	< 0.850	0.850	< 0.236	0.236
	Nickel	Partial Carcass	0.470	0.425	0.131	0.118
	Lead	Partial Carcass	0.272	0.0425	0.0756	0.0118
	Selenium	Partial Carcass	3.19	0.0425	0.887	0.0118
	Strontium	Partial Carcass	143	0.0425	39.8	0.0118
	Vanadium	Partial Carcass	0.669	0.425	0.186	0.118
	Zinc	Partial Carcass	114	0.170	31.7	0.0473
	Methyl Mercury	Partial Carcass	0.164	0.00837	0.0456	0.00233
1-07-6						
	Aluminum	Partial Carcass	127	0.439	34.4	0.119

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Arsenic	Partial Carcass	3.26	0.0439	0.883	0.0119
	Boron	Partial Carcass	< 0.439	0.439	< 0.119	0.119
	Barium	Partial Carcass	37.3	0.0880	10.1	0.0238
	Beryllium	Partial Carcass	< 0.0439	0.0439	< 0.0119	0.0119
	Cadmium	Partial Carcass	< 0.00878	0.00878	< 0.00238	0.00238
	Chromium	Partial Carcass	< 0.439	0.439	< 0.119	0.119
	Copper	Partial Carcass	2.58	0.439	0.699	0.119
	Iron	Partial Carcass	178	0.880	48.2	0.238
	Mercury	Partial Carcass	0.258	0.00460	0.0699	0.00125
	Magnesium	Partial Carcass	1290	1.76	350.	0.477
	Manganese	Partial Carcass	15.6	0.176	4.23	0.0477
	Molybdenum	Partial Carcass	< 0.880	0.880	< 0.238	0.238
	Nickel	Partial Carcass	< 0.439	0.439	< 0.119	0.119
	Lead	Partial Carcass	0.290	0.0439	0.0786	0.0119
	Selenium	Partial Carcass	1.85	0.0439	0.501	0.0119
	Strontium	Partial Carcass	134	0.0439	36.3	0.0119
	Vanadium	Partial Carcass	0.656	0.439	0.178	0.119
	Zinc	Partial Carcass	110.	0.176	29.8	0.0477
	Methyl Mercury	Partial Carcass	0.256	0.00652	0.0694	0.00177
1-08-1						
	Aluminum	Partial Carcass	140.	0.519	34.7	0.129
	Arsenic	Partial Carcass	4.49	0.0490	1.11	0.0122
	Boron	Partial Carcass	< 0.519	0.519	< 0.129	0.129
	Barium	Partial Carcass	88.4	0.104	21.9	0.0258
	Beryllium	Partial Carcass	< 0.0519	0.0519	< 0.0129	0.0129
	Cadmium	Partial Carcass	0.0627	0.0196	0.0155	0.00486
	Chromium	Partial Carcass	0.753	0.519	0.187	0.129
	Copper	Partial Carcass	3.78	0.519	0.937	0.129
	Iron	Partial Carcass	149	1.04	37.0	0.258

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Mercury	Partial Carcass	0.150	0.00610	0.0372	0.00151
	Magnesium	Partial Carcass	1560	2.07	387	0.513
	Manganese	Partial Carcass	17.8	0.207	4.41	0.0513
	Molybdenum	Partial Carcass	< 1.04	1.04	< 0.258	0.258
	Nickel	Partial Carcass	0.741	0.519	0.184	0.129
	Lead	Partial Carcass	0.152	0.0490	0.0377	0.0122
	Selenium	Partial Carcass	2.06	0.0490	0.511	0.0122
	Strontium	Partial Carcass	154	0.0519	38.2	0.0129
	Vanadium	Partial Carcass	0.550	0.519	0.136	0.129
	Zinc	Partial Carcass	165	0.207	40.9	0.0513
1-08-2						
	Aluminum	Partial Carcass	162	0.508	41.0	0.129
	Arsenic	Partial Carcass	3.92	0.0480	0.992	0.0121
	Boron	Partial Carcass	< 0.508	0.508	< 0.129	0.129
	Barium	Partial Carcass	69.3	0.102	17.5	0.0258
	Beryllium	Partial Carcass	< 0.0508	0.0508	< 0.0129	0.0129
	Cadmium	Partial Carcass	0.0359	0.0192	0.00908	0.00486
	Chromium	Partial Carcass	1.23	0.508	0.311	0.129
	Copper	Partial Carcass	46.7	0.508	11.8	0.129
	Iron	Partial Carcass	181	1.02	45.8	0.258
	Mercury	Partial Carcass	0.146	0.00570	0.0369	0.00144
	Magnesium	Partial Carcass	1440	2.03	364	0.514
	Manganese	Partial Carcass	17.0	0.203	4.30	0.0514
	Molybdenum	Partial Carcass	< 1.02	1.02	< 0.258	0.258
	Nickel	Partial Carcass	7.50	0.508	1.90	0.129
	Lead	Partial Carcass	0.291	0.0480	0.0736	0.0121
	Selenium	Partial Carcass	2.08	0.0480	0.526	0.0121
	Strontium	Partial Carcass	144	0.0508	36.4	0.0129
	Vanadium	Partial Carcass	0.908	0.508	0.230	0.129

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Zinc	Partial Carcass	138	0.203	34.9	0.0514
1-08-3						
	Aluminum	Partial Carcass	95.0	0.520	25.5	0.139
	Arsenic	Partial Carcass	3.77	0.0490	1.01	0.0131
	Boron	Partial Carcass	< 0.520	0.520	< 0.139	0.139
	Barium	Partial Carcass	62.1	0.104	16.6	0.0279
	Beryllium	Partial Carcass	< 0.0520	0.0520	< 0.0139	0.0139
	Cadmium	Partial Carcass	< 0.0196	0.0196	< 0.00525	0.00525
	Chromium	Partial Carcass	< 0.520	0.520	< 0.139	0.139
	Copper	Partial Carcass	3.47	0.520	0.930	0.139
	Iron	Partial Carcass	125	1.04	33.5	0.279
	Mercury	Partial Carcass	0.125	0.00520	0.0335	0.00139
	Magnesium	Partial Carcass	1400	2.08	375	0.557
	Manganese	Partial Carcass	10.7	0.208	2.87	0.0557
	Molybdenum	Partial Carcass	< 1.04	1.04	< 0.279	0.279
	Nickel	Partial Carcass	0.856	0.520	0.229	0.139
	Lead	Partial Carcass	0.166	0.0490	0.0445	0.0131
	Selenium	Partial Carcass	1.70	0.0490	0.456	0.0131
	Strontium	Partial Carcass	147	0.0520	39.4	0.0139
	Vanadium	Partial Carcass	0.706	0.520	0.189	0.139
	Zinc	Partial Carcass	136	0.208	36.4	0.0557
1-08-4						
	Aluminum	Partial Carcass	142	0.508	38.9	0.139
	Arsenic	Partial Carcass	2.70	0.0480	0.740	0.0132
	Boron	Partial Carcass	< 0.508	0.508	< 0.139	0.139
	Barium	Partial Carcass	56.1	0.102	15.4	0.0279
	Beryllium	Partial Carcass	< 0.0508	0.0508	< 0.0139	0.0139
	Cadmium	Partial Carcass	< 0.0192	0.0192	< 0.00526	0.00526
	Chromium	Partial Carcass	< 0.508	0.508	< 0.139	0.139

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Copper	Partial Carcass	3.76	0.508	1.03	0.139
	Iron	Partial Carcass	178	1.02	48.8	0.279
	Mercury	Partial Carcass	0.0861	0.00870	0.0236	0.00238
	Magnesium	Partial Carcass	1390	2.03	381	0.556
	Manganese	Partial Carcass	12.9	0.203	3.53	0.0556
	Molybdenum	Partial Carcass	< 1.02	1.02	< 0.279	0.279
	Nickel	Partial Carcass	0.692	0.508	0.190	0.139
	Lead	Partial Carcass	0.191	0.0480	0.0523	0.0132
	Selenium	Partial Carcass	1.89	0.0480	0.518	0.0132
	Strontium	Partial Carcass	121	0.0508	33.2	0.0139
	Vanadium	Partial Carcass	0.788	0.508	0.216	0.139
	Zinc	Partial Carcass	132	0.203	36.2	0.0556
1-08-5						
	Aluminum	Partial Carcass	36.4	0.459	9.94	0.125
	Arsenic	Partial Carcass	3.10	0.0459	0.846	0.0125
	Boron	Partial Carcass	< 0.459	0.459	< 0.125	0.125
	Barium	Partial Carcass	34.7	0.0920	9.47	0.0251
	Beryllium	Partial Carcass	< 0.0459	0.0459	< 0.0125	0.0125
	Cadmium	Partial Carcass	< 0.00918	0.00918	< 0.00251	0.00251
	Chromium	Partial Carcass	< 0.459	0.459	< 0.125	0.125
	Copper	Partial Carcass	2.89	0.459	0.789	0.125
	Iron	Partial Carcass	66.1	0.920	18.0	0.251
	Mercury	Partial Carcass	0.102	0.00510	0.0278	0.00139
	Magnesium	Partial Carcass	1280	1.84	349	0.502
	Manganese	Partial Carcass	13.1	0.184	3.58	0.0502
	Molybdenum	Partial Carcass	< 0.920	0.920	< 0.251	0.251
	Nickel	Partial Carcass	< 0.459	0.459	< 0.125	0.125
	Lead	Partial Carcass	0.214	0.0459	0.0584	0.0125
	Selenium	Partial Carcass	2.03	0.0459	0.554	0.0125

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Strontium	Partial Carcass	134	0.0459	36.6	0.0125
	Vanadium	Partial Carcass	< 0.459	0.459	< 0.125	0.125
	Zinc	Partial Carcass	112	0.184	30.6	0.0502
	Methyl Mercury	Partial Carcass	0.0995	0.00755	0.0272	0.00206
1-08-6						
	Aluminum	Partial Carcass	73.3	0.502	21.5	0.147
	Arsenic	Partial Carcass	2.73	0.0474	0.800	0.0139
	Boron	Partial Carcass	< 0.502	0.502	< 0.147	0.147
	Barium	Partial Carcass	22.1	0.100	6.48	0.0293
	Beryllium	Partial Carcass	< 0.0502	0.0502	< 0.0147	0.0147
	Cadmium	Partial Carcass	< 0.0190	0.0190	< 0.00557	0.00557
	Chromium	Partial Carcass	< 0.502	0.502	< 0.147	0.147
	Copper	Partial Carcass	6.91	0.502	2.02	0.147
	Iron	Partial Carcass	101	1.00	29.6	0.293
	Mercury	Partial Carcass	0.102	0.00780	0.0299	0.00229
	Magnesium	Partial Carcass	1240	2.01	363	0.589
	Manganese	Partial Carcass	11.8	0.201	3.46	0.0589
	Molybdenum	Partial Carcass	< 1.00	1.00	< 0.293	0.293
	Nickel	Partial Carcass	3.45	0.502	1.01	0.147
	Lead	Partial Carcass	0.115	0.0474	0.0337	0.0139
	Selenium	Partial Carcass	2.84	0.0474	0.832	0.0139
	Strontium	Partial Carcass	175	0.0502	51.3	0.0147
	Vanadium	Partial Carcass	0.608	0.502	0.178	0.147
	Zinc	Partial Carcass	131	0.201	38.4	0.0589
2-07-4						
	Aluminum	Partial Carcass	61.3	0.434	17.0	0.121
	Arsenic	Partial Carcass	3.13	0.0434	0.870	0.0121
	Boron	Partial Carcass	< 0.434	0.434	< 0.121	0.121
	Barium	Partial Carcass	47.8	0.0870	13.3	0.0242

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Beryllium	Partial Carcass	< 0.0434	0.0434	< 0.0121	0.0121
	Cadmium	Partial Carcass	< 0.00867	0.00867	< 0.00241	0.00241
	Chromium	Partial Carcass	< 0.434	0.434	< 0.121	0.121
	Copper	Partial Carcass	2.67	0.434	0.742	0.121
	Iron	Partial Carcass	106	0.870	29.5	0.242
	Mercury	Partial Carcass	0.141	0.00450	0.0392	0.00125
	Magnesium	Partial Carcass	1330	1.73	370.	0.481
	Manganese	Partial Carcass	12.5	0.173	3.48	0.0481
	Molybdenum	Partial Carcass	< 0.870	0.870	< 0.242	0.242
	Nickel	Partial Carcass	< 0.434	0.434	< 0.121	0.121
	Lead	Partial Carcass	0.326	0.0434	0.0906	0.0121
	Selenium	Partial Carcass	1.81	0.0434	0.503	0.0121
	Strontium	Partial Carcass	108	0.0434	30.0	0.0121
	Vanadium	Partial Carcass	< 0.434	0.434	< 0.121	0.121
	Zinc	Partial Carcass	114	0.173	31.7	0.0481
	Methyl Mercury	Partial Carcass	0.141	0.00762	0.0392	0.00212
4-07-1						
	Aluminum	Partial Carcass	382	0.511	98.9	0.132
	Arsenic	Partial Carcass	3.02	0.0482	0.782	0.0125
	Boron	Partial Carcass	< 0.511	0.511	< 0.132	0.132
	Barium	Partial Carcass	79.0	0.102	20.5	0.0264
	Beryllium	Partial Carcass	< 0.0511	0.0511	< 0.0132	0.0132
	Cadmium	Partial Carcass	< 0.0193	0.0193	< 0.00500	0.00500
	Chromium	Partial Carcass	0.618	0.511	0.160	0.132
	Copper	Partial Carcass	3.49	0.511	0.904	0.132
	Iron	Partial Carcass	457	1.02	118	0.264
	Mercury	Partial Carcass	0.282	0.00460	0.0730	0.00119
	Magnesium	Partial Carcass	1730	2.04	448	0.528
	Manganese	Partial Carcass	32.4	0.204	8.39	0.0528

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Molybdenum	Partial Carcass	< 1.02	1.02	< 0.264	0.264
	Nickel	Partial Carcass	1.24	0.511	0.321	0.132
	Lead	Partial Carcass	0.376	0.0482	0.0974	0.0125
	Selenium	Partial Carcass	2.00	0.0482	0.518	0.0125
	Strontium	Partial Carcass	138	0.0511	35.7	0.0132
	Vanadium	Partial Carcass	1.32	0.511	0.342	0.132
	Zinc	Partial Carcass	140.	0.204	36.3	0.0528
4-07-2						
	Aluminum	Partial Carcass	429	0.513	106	0.127
	Arsenic	Partial Carcass	3.29	0.0484	0.813	0.0120
	Boron	Partial Carcass	< 0.513	0.513	< 0.127	0.127
	Barium	Partial Carcass	70.0	0.103	17.3	0.0254
	Beryllium	Partial Carcass	< 0.0513	0.0513	< 0.0127	0.0127
	Cadmium	Partial Carcass	< 0.0194	0.0194	< 0.00479	0.00479
	Chromium	Partial Carcass	0.783	0.513	0.193	0.127
	Copper	Partial Carcass	3.25	0.513	0.803	0.127
	Iron	Partial Carcass	496	1.03	123	0.254
	Mercury	Partial Carcass	0.251	0.00510	0.0620	0.00126
	Magnesium	Partial Carcass	1570	2.05	388	0.506
	Manganese	Partial Carcass	34.1	0.205	8.42	0.0506
	Molybdenum	Partial Carcass	< 1.03	1.03	< 0.254	0.254
	Nickel	Partial Carcass	1.15	0.513	0.284	0.127
	Lead	Partial Carcass	0.522	0.0484	0.129	0.0120
	Selenium	Partial Carcass	1.66	0.0484	0.410	0.0120
	Strontium	Partial Carcass	145	0.0513	35.8	0.0127
	Vanadium	Partial Carcass	1.84	0.513	0.454	0.127
	Zinc	Partial Carcass	135	0.205	33.3	0.0506
4-07-3						
	Aluminum	Partial Carcass	256	0.512	66.6	0.133

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Arsenic	Partial Carcass	2.74	0.0484	0.712	0.0126
	Boron	Partial Carcass	< 0.512	0.512	< 0.133	0.133
	Barium	Partial Carcass	65.2	0.102	17.0	0.0265
	Beryllium	Partial Carcass	< 0.0512	0.0512	< 0.0133	0.0133
	Cadmium	Partial Carcass	< 0.0193	0.0193	< 0.00502	0.00502
	Chromium	Partial Carcass	0.513	0.512	0.133	0.133
	Copper	Partial Carcass	2.79	0.512	0.725	0.133
	Iron	Partial Carcass	290.	1.02	75.4	0.265
	Mercury	Partial Carcass	0.202	0.00470	0.0525	0.00122
	Magnesium	Partial Carcass	1390	2.05	361	0.533
	Manganese	Partial Carcass	24.3	0.205	6.32	0.0533
	Molybdenum	Partial Carcass	< 1.02	1.02	< 0.265	0.265
	Nickel	Partial Carcass	0.917	0.512	0.238	0.133
	Lead	Partial Carcass	0.290	0.0484	0.0754	0.0126
	Selenium	Partial Carcass	1.31	0.0484	0.341	0.0126
	Strontium	Partial Carcass	150.	0.0512	39.0	0.0133
	Vanadium	Partial Carcass	1.49	0.512	0.387	0.133
	Zinc	Partial Carcass	140.	0.205	36.4	0.0533
4-07-4						
	Aluminum	Partial Carcass	450.	0.507	116	0.130
	Arsenic	Partial Carcass	3.09	0.0478	0.794	0.0123
	Boron	Partial Carcass	< 0.507	0.507	< 0.130	0.130
	Barium	Partial Carcass	59.0	0.101	15.2	0.0260
	Beryllium	Partial Carcass	< 0.0507	0.0507	< 0.0130	0.0130
	Cadmium	Partial Carcass	< 0.0191	0.0191	< 0.00491	0.00491
	Chromium	Partial Carcass	0.752	0.507	0.193	0.130
	Copper	Partial Carcass	3.57	0.507	0.917	0.130
	Iron	Partial Carcass	511	1.01	131	0.260
	Mercury	Partial Carcass	0.161	0.00490	0.0414	0.00126

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Magnesium	Partial Carcass	1710	2.03	439	0.522
	Manganese	Partial Carcass	28.4	0.203	7.30	0.0522
	Molybdenum	Partial Carcass	< 1.01	1.01	< 0.260	0.260
	Nickel	Partial Carcass	1.26	0.507	0.324	0.130
	Lead	Partial Carcass	0.557	0.0478	0.143	0.0123
	Selenium	Partial Carcass	2.07	0.0478	0.532	0.0123
	Strontium	Partial Carcass	129	0.0507	33.2	0.0130
	Vanadium	Partial Carcass	1.56	0.507	0.401	0.130
	Zinc	Partial Carcass	126	0.203	32.4	0.0522
4-07-5						
	Aluminum	Partial Carcass	201	0.493	53.3	0.131
	Arsenic	Partial Carcass	2.79	0.0493	0.739	0.0131
	Boron	Partial Carcass	0.758	0.493	0.201	0.131
	Barium	Partial Carcass	29.7	0.0990	7.87	0.0262
	Beryllium	Partial Carcass	< 0.0493	0.0493	< 0.0131	0.0131
	Cadmium	Partial Carcass	< 0.00987	0.00987	< 0.00262	0.00262
	Chromium	Partial Carcass	< 0.493	0.493	< 0.131	0.131
	Copper	Partial Carcass	3.00	0.493	0.795	0.131
	Iron	Partial Carcass	294	0.990	77.9	0.262
	Mercury	Partial Carcass	0.216	0.00490	0.0572	0.00130
	Magnesium	Partial Carcass	1360	1.97	360.	0.522
	Manganese	Partial Carcass	35.1	0.197	9.30	0.0522
	Molybdenum	Partial Carcass	< 0.990	0.990	< 0.262	0.262
	Nickel	Partial Carcass	< 0.493	0.493	< 0.131	0.131
	Lead	Partial Carcass	0.562	0.0493	0.149	0.0131
	Selenium	Partial Carcass	2.33	0.0493	0.617	0.0131
	Strontium	Partial Carcass	155	0.0493	41.1	0.0131
	Vanadium	Partial Carcass	0.977	0.493	0.259	0.131
	Zinc	Partial Carcass	125	0.197	33.1	0.0522

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
4-08-1						
	Aluminum	Partial Carcass	383	0.509	103	0.137
	Arsenic	Partial Carcass	3.41	0.0480	0.921	0.0130
	Boron	Partial Carcass	< 0.509	0.509	< 0.137	0.137
	Barium	Partial Carcass	69.5	0.102	18.8	0.0275
	Beryllium	Partial Carcass	< 0.0509	0.0509	< 0.0137	0.0137
	Cadmium	Partial Carcass	0.0436	0.0192	0.0118	0.00518
	Chromium	Partial Carcass	0.925	0.509	0.250	0.137
	Copper	Partial Carcass	3.34	0.509	0.902	0.137
	Iron	Partial Carcass	408	1.02	110.	0.275
	Mercury	Partial Carcass	0.129	0.00570	0.0348	0.00154
	Magnesium	Partial Carcass	1410	2.03	381	0.548
	Manganese	Partial Carcass	27.1	0.203	7.32	0.0548
	Molybdenum	Partial Carcass	< 1.02	1.02	< 0.275	0.275
	Nickel	Partial Carcass	1.25	0.509	0.338	0.137
	Lead	Partial Carcass	0.298	0.0480	0.0805	0.0130
	Selenium	Partial Carcass	1.36	0.0480	0.367	0.0130
	Strontium	Partial Carcass	107	0.0509	28.9	0.0137
	Vanadium	Partial Carcass	1.30	0.509	0.351	0.137
	Zinc	Partial Carcass	136	0.203	36.7	0.0548
4-08-2						
	Aluminum	Partial Carcass	317	0.511	88.8	0.143
	Arsenic	Partial Carcass	3.70	0.0482	1.04	0.0135
	Boron	Partial Carcass	< 0.511	0.511	< 0.143	0.143
	Barium	Partial Carcass	67.7	0.102	19.0	0.0286
	Beryllium	Partial Carcass	< 0.0511	0.0511	< 0.0143	0.0143
	Cadmium	Partial Carcass	< 0.0193	0.0193	< 0.00540	0.00540
	Chromium	Partial Carcass	0.662	0.511	0.185	0.143
	Copper	Partial Carcass	3.17	0.511	0.888	0.143

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Iron	Partial Carcass	344	1.02	96.3	0.286
	Mercury	Partial Carcass	0.123	0.00570	0.0344	0.00160
	Magnesium	Partial Carcass	1470	2.04	412	0.571
	Manganese	Partial Carcass	22.9	0.204	6.41	0.0571
	Molybdenum	Partial Carcass	< 1.02	1.02	< 0.286	0.286
	Nickel	Partial Carcass	0.949	0.511	0.266	0.143
	Lead	Partial Carcass	0.289	0.0482	0.0809	0.0135
	Selenium	Partial Carcass	1.81	0.0482	0.507	0.0135
	Strontium	Partial Carcass	131	0.0511	36.7	0.0143
	Vanadium	Partial Carcass	1.13	0.511	0.316	0.143
	Zinc	Partial Carcass	122	0.204	34.2	0.0571
4-08-3						
	Aluminum	Partial Carcass	111	0.508	32.2	0.147
	Arsenic	Partial Carcass	2.67	0.0480	0.774	0.0139
	Boron	Partial Carcass	< 0.508	0.508	< 0.147	0.147
	Barium	Partial Carcass	49.8	0.102	14.4	0.0296
	Beryllium	Partial Carcass	< 0.0508	0.0508	< 0.0147	0.0147
	Cadmium	Partial Carcass	< 0.0192	0.0192	< 0.00557	0.00557
	Chromium	Partial Carcass	< 0.508	0.508	< 0.147	0.147
	Copper	Partial Carcass	20.0	0.508	5.80	0.147
	Iron	Partial Carcass	141	1.02	40.9	0.296
	Mercury	Partial Carcass	0.106	0.00650	0.0307	0.00188
	Magnesium	Partial Carcass	1310	2.03	380.	0.589
	Manganese	Partial Carcass	13.0	0.203	3.77	0.0589
	Molybdenum	Partial Carcass	< 1.02	1.02	< 0.296	0.296
	Nickel	Partial Carcass	4.58	0.508	1.33	0.147
	Lead	Partial Carcass	0.305	0.0480	0.0884	0.0139
	Selenium	Partial Carcass	1.68	0.0480	0.487	0.0139
	Strontium	Partial Carcass	109	0.0508	31.6	0.0147

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Vanadium	Partial Carcass	0.705	0.508	0.204	0.147
	Zinc	Partial Carcass	119	0.203	34.5	0.0589
4-08-4						
	Aluminum	Partial Carcass	214	0.512	57.8	0.138
	Arsenic	Partial Carcass	2.78	0.0483	0.751	0.0130
	Boron	Partial Carcass	< 0.512	0.512	< 0.138	0.138
	Barium	Partial Carcass	55.3	0.102	14.9	0.0275
	Beryllium	Partial Carcass	< 0.0512	0.0512	< 0.0138	0.0138
	Cadmium	Partial Carcass	< 0.0193	0.0193	< 0.00521	0.00521
	Chromium	Partial Carcass	0.602	0.512	0.163	0.138
	Copper	Partial Carcass	14.9	0.512	4.02	0.138
	Iron	Partial Carcass	233	1.02	62.9	0.275
	Mercury	Partial Carcass	0.111	0.00560	0.0300	0.00151
	Magnesium	Partial Carcass	1460	2.05	394	0.554
	Manganese	Partial Carcass	17.2	0.205	4.64	0.0554
	Molybdenum	Partial Carcass	< 1.02	1.02	< 0.275	0.275
	Nickel	Partial Carcass	3.27	0.512	0.883	0.138
	Lead	Partial Carcass	0.293	0.0483	0.0791	0.0130
	Selenium	Partial Carcass	1.53	0.0483	0.413	0.0130
	Strontium	Partial Carcass	124	0.0512	33.5	0.0138
	Vanadium	Partial Carcass	0.940	0.512	0.254	0.138
	Zinc	Partial Carcass	127	0.205	34.3	0.0554
4-08-6						
	Aluminum	Partial Carcass	95.3	0.506	25.4	0.135
	Arsenic	Partial Carcass	2.67	0.0477	0.713	0.0127
	Boron	Partial Carcass	< 0.506	0.506	< 0.135	0.135
	Barium	Partial Carcass	30.6	0.101	8.17	0.0270
	Beryllium	Partial Carcass	< 0.0506	0.0506	< 0.0135	0.0135
	Cadmium	Partial Carcass	< 0.0191	0.0191	< 0.00510	0.00510

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Chromium	Partial Carcass	< 0.506	0.506	< 0.135	0.135
	Copper	Partial Carcass	3.01	0.506	0.804	0.135
	Iron	Partial Carcass	163	1.01	43.5	0.270
	Mercury	Partial Carcass	0.120	0.00600	0.0320	0.00160
	Magnesium	Partial Carcass	1450	2.02	387	0.539
	Manganese	Partial Carcass	15.8	0.202	4.22	0.0539
	Molybdenum	Partial Carcass	< 1.01	1.01	< 0.270	0.270
	Nickel	Partial Carcass	0.639	0.506	0.171	0.135
	Lead	Partial Carcass	0.120	0.0477	0.0320	0.0127
	Selenium	Partial Carcass	1.69	0.0477	0.451	0.0127
	Strontium	Partial Carcass	186	0.0506	49.7	0.0135
	Vanadium	Partial Carcass	0.789	0.506	0.211	0.135
	Zinc	Partial Carcass	133	0.202	35.5	0.0539
7-06-1						
	Aluminum	Partial Carcass	1150	0.522	308	0.140
	Arsenic	Partial Carcass	3.27	0.0493	0.876	0.0132
	Boron	Partial Carcass	1.05	0.522	0.281	0.140
	Barium	Partial Carcass	88.0	0.104	23.6	0.0279
	Beryllium	Partial Carcass	0.0578	0.0522	0.0155	0.0140
	Cadmium	Partial Carcass	0.115	0.0197	0.0308	0.00528
	Chromium	Partial Carcass	3.73	0.522	1.00	0.140
	Copper	Partial Carcass	31.7	0.522	8.50	0.140
	Iron	Partial Carcass	1180	1.04	316	0.279
	Mercury	Partial Carcass	0.277	0.00670	0.0742	0.00180
	Magnesium	Partial Carcass	2000	2.09	536	0.560
	Manganese	Partial Carcass	58.2	0.209	15.6	0.0560
	Molybdenum	Partial Carcass	< 1.04	1.04	< 0.279	0.279
	Nickel	Partial Carcass	13.3	0.522	3.56	0.140
	Lead	Partial Carcass	1.12	0.0493	0.300	0.0132

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Selenium	Partial Carcass	2.09	0.0493	0.560	0.0132
	Strontium	Partial Carcass	162	0.0522	43.4	0.0140
	Vanadium	Partial Carcass	3.15	0.522	0.844	0.140
	Zinc	Partial Carcass	156	0.209	41.8	0.0560
7-06-2						
	Aluminum	Partial Carcass	970.	0.517	267	0.142
	Arsenic	Partial Carcass	3.08	0.0488	0.847	0.0134
	Boron	Partial Carcass	0.705	0.517	0.194	0.142
	Barium	Partial Carcass	74.3	0.103	20.4	0.0283
	Beryllium	Partial Carcass	< 0.0517	0.0517	< 0.0142	0.0142
	Cadmium	Partial Carcass	0.0542	0.0195	0.0149	0.00536
	Chromium	Partial Carcass	2.63	0.517	0.723	0.142
	Copper	Partial Carcass	18.2	0.517	5.00	0.142
	Iron	Partial Carcass	1060	1.03	292	0.283
	Mercury	Partial Carcass	0.273	0.00640	0.0751	0.00176
	Magnesium	Partial Carcass	1700	2.07	468	0.569
	Manganese	Partial Carcass	52.4	0.207	14.4	0.0569
	Molybdenum	Partial Carcass	< 1.03	1.03	< 0.283	0.283
	Nickel	Partial Carcass	12.9	0.517	3.55	0.142
	Lead	Partial Carcass	1.47	0.0488	0.404	0.0134
	Selenium	Partial Carcass	2.42	0.0488	0.666	0.0134
	Strontium	Partial Carcass	123	0.0517	33.8	0.0142
	Vanadium	Partial Carcass	2.48	0.517	0.682	0.142
	Zinc	Partial Carcass	140.	0.207	38.5	0.0569
7-06-3						
	Aluminum	Partial Carcass	767	0.500	219	0.142
	Arsenic	Partial Carcass	2.68	0.0472	0.764	0.0135
	Boron	Partial Carcass	0.651	0.500	0.186	0.142
	Barium	Partial Carcass	59.8	0.100	17.0	0.0285

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Beryllium	Partial Carcass	< 0.0500	0.0500	< 0.0142	0.0142
	Cadmium	Partial Carcass	< 0.0189	0.0189	< 0.00539	0.00539
	Chromium	Partial Carcass	2.58	0.500	0.735	0.142
	Copper	Partial Carcass	3.28	0.500	0.935	0.142
	Iron	Partial Carcass	838	1.00	239	0.285
	Mercury	Partial Carcass	0.205	0.00830	0.0584	0.00237
	Magnesium	Partial Carcass	1780	2.00	507	0.570
	Manganese	Partial Carcass	39.9	0.200	11.4	0.0570
	Molybdenum	Partial Carcass	< 1.00	1.00	< 0.285	0.285
	Nickel	Partial Carcass	2.24	0.500	0.638	0.142
	Lead	Partial Carcass	0.763	0.0472	0.217	0.0135
	Selenium	Partial Carcass	1.74	0.0472	0.496	0.0135
	Strontium	Partial Carcass	164	0.0500	46.7	0.0142
	Vanadium	Partial Carcass	2.81	0.500	0.801	0.142
	Zinc	Partial Carcass	147	0.200	41.9	0.0570
7-06-4						
	Aluminum	Partial Carcass	626	0.524	210.	0.176
	Arsenic	Partial Carcass	2.68	0.0495	0.898	0.0166
	Boron	Partial Carcass	0.576	0.524	0.193	0.176
	Barium	Partial Carcass	65.3	0.105	21.9	0.0352
	Beryllium	Partial Carcass	< 0.0524	0.0524	< 0.0176	0.0176
	Cadmium	Partial Carcass	< 0.0198	0.0198	< 0.00663	0.00663
	Chromium	Partial Carcass	2.06	0.524	0.690	0.176
	Copper	Partial Carcass	2.81	0.524	0.941	0.176
	Iron	Partial Carcass	634	1.05	212	0.352
	Mercury	Partial Carcass	0.181	0.00720	0.0606	0.00241
	Magnesium	Partial Carcass	1690	2.10	566	0.704
	Manganese	Partial Carcass	36.8	0.210	12.3	0.0704
	Molybdenum	Partial Carcass	< 1.05	1.05	< 0.352	0.352

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Nickel	Partial Carcass	1.87	0.524	0.626	0.176
	Lead	Partial Carcass	0.668	0.0495	0.224	0.0166
	Selenium	Partial Carcass	1.81	0.0495	0.606	0.0166
	Strontium	Partial Carcass	154	0.0524	51.6	0.0176
	Vanadium	Partial Carcass	1.74	0.524	0.583	0.176
	Zinc	Partial Carcass	170.	0.210	57.0	0.0704
7-06-5						
	Aluminum	Partial Carcass	328	0.513	102	0.160
	Arsenic	Partial Carcass	2.80	0.0484	0.874	0.0151
	Boron	Partial Carcass	< 0.513	0.513	< 0.160	0.160
	Barium	Partial Carcass	54.4	0.103	17.0	0.0321
	Beryllium	Partial Carcass	< 0.0513	0.0513	< 0.0160	0.0160
	Cadmium	Partial Carcass	< 0.0194	0.0194	< 0.00605	0.00605
	Chromium	Partial Carcass	0.993	0.513	0.310	0.160
	Copper	Partial Carcass	2.31	0.513	0.721	0.160
	Iron	Partial Carcass	344	1.03	107	0.321
	Mercury	Partial Carcass	0.185	0.00630	0.0577	0.00197
	Magnesium	Partial Carcass	1640	2.05	512	0.640
	Manganese	Partial Carcass	49.9	0.205	15.6	0.0640
	Molybdenum	Partial Carcass	< 1.03	1.03	< 0.321	0.321
	Nickel	Partial Carcass	1.10	0.513	0.343	0.160
	Lead	Partial Carcass	0.392	0.0484	0.122	0.0151
	Selenium	Partial Carcass	1.42	0.0484	0.443	0.0151
	Strontium	Partial Carcass	187	0.0513	58.3	0.0160
	Vanadium	Partial Carcass	1.19	0.513	0.371	0.160
	Zinc	Partial Carcass	146	0.205	45.6	0.0640
7-06-6						
	Aluminum	Partial Carcass	289	0.521	87.3	0.157
	Arsenic	Partial Carcass	2.55	0.0492	0.770	0.0149

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Boron	Partial Carcass	< 0.521	0.521	< 0.157	0.157
	Barium	Partial Carcass	57.6	0.104	17.4	0.0314
	Beryllium	Partial Carcass	< 0.0521	0.0521	< 0.0157	0.0157
	Cadmium	Partial Carcass	< 0.0197	0.0197	< 0.00595	0.00595
	Chromium	Partial Carcass	0.728	0.521	0.220	0.157
	Copper	Partial Carcass	2.32	0.521	0.701	0.157
	Iron	Partial Carcass	309	1.04	93.3	0.314
	Mercury	Partial Carcass	0.232	0.00680	0.0701	0.00205
	Magnesium	Partial Carcass	1530	2.09	462	0.631
	Manganese	Partial Carcass	31.7	0.209	9.57	0.0631
	Molybdenum	Partial Carcass	< 1.04	1.04	< 0.314	0.314
	Nickel	Partial Carcass	1.19	0.521	0.359	0.157
	Lead	Partial Carcass	0.338	0.0492	0.102	0.0149
	Selenium	Partial Carcass	1.40	0.0492	0.423	0.0149
	Strontium	Partial Carcass	170.	0.0521	51.3	0.0157
	Vanadium	Partial Carcass	1.12	0.521	0.338	0.157
	Zinc	Partial Carcass	165	0.209	49.8	0.0631
7-08-1						
	Aluminum	Partial Carcass	542	0.468	154	0.133
	Arsenic	Partial Carcass	4.10	0.0468	1.16	0.0133
	Boron	Partial Carcass	0.562	0.468	0.160	0.133
	Barium	Partial Carcass	71.4	0.0940	20.3	0.0267
	Beryllium	Partial Carcass	< 0.0468	0.0468	< 0.0133	0.0133
	Cadmium	Partial Carcass	0.0776	0.00935	0.0220	0.00266
	Chromium	Partial Carcass	< 0.468	0.468	< 0.133	0.133
	Copper	Partial Carcass	3.72	0.468	1.06	0.133
	Iron	Partial Carcass	749	0.940	213	0.267
	Mercury	Partial Carcass	0.192	0.00440	0.0545	0.00125
	Magnesium	Partial Carcass	1570	1.87	446	0.531

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Manganese	Partial Carcass	56.6	0.187	16.1	0.0531
	Molybdenum	Partial Carcass	< 0.940	0.940	< 0.267	0.267
	Nickel	Partial Carcass	0.898	0.468	0.255	0.133
	Lead	Partial Carcass	0.959	0.0468	0.272	0.0133
	Selenium	Partial Carcass	1.74	0.0468	0.494	0.0133
	Strontium	Partial Carcass	120.	0.0468	34.1	0.0133
	Vanadium	Partial Carcass	1.47	0.468	0.417	0.133
	Zinc	Partial Carcass	149	0.187	42.3	0.0531
	Methyl Mercury	Partial Carcass	0.181	0.00571	0.0514	0.00162
7-08-2						
	Aluminum	Partial Carcass	419	0.463	119	0.132
	Arsenic	Partial Carcass	3.75	0.0463	1.07	0.0132
	Boron	Partial Carcass	< 0.463	0.463	< 0.132	0.132
	Barium	Partial Carcass	67.6	0.0930	19.3	0.0265
	Beryllium	Partial Carcass	< 0.0463	0.0463	< 0.0132	0.0132
	Cadmium	Partial Carcass	0.0230	0.00925	0.00656	0.00264
	Chromium	Partial Carcass	< 0.463	0.463	< 0.132	0.132
	Copper	Partial Carcass	3.19	0.463	0.909	0.132
	Iron	Partial Carcass	574	0.930	164	0.265
	Mercury	Partial Carcass	0.195	0.00440	0.0556	0.00125
	Magnesium	Partial Carcass	1440	1.85	410.	0.527
	Manganese	Partial Carcass	62.8	0.185	17.9	0.0527
	Molybdenum	Partial Carcass	< 0.930	0.930	< 0.265	0.265
	Nickel	Partial Carcass	0.866	0.463	0.247	0.132
	Lead	Partial Carcass	0.722	0.0463	0.206	0.0132
	Selenium	Partial Carcass	1.89	0.0463	0.539	0.0132
	Strontium	Partial Carcass	105	0.0463	29.9	0.0132
	Vanadium	Partial Carcass	1.22	0.463	0.348	0.132
	Zinc	Partial Carcass	143	0.185	40.8	0.0527

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Methyl Mercury	Partial Carcass	0.197	0.00908	0.0561	0.00259
7-08-3						
	Aluminum	Partial Carcass	81.0	0.484	22.0	0.132
	Arsenic	Partial Carcass	2.83	0.0484	0.770	0.0132
	Boron	Partial Carcass	< 0.484	0.484	< 0.132	0.132
	Barium	Partial Carcass	47.5	0.0970	12.9	0.0264
	Beryllium	Partial Carcass	< 0.0484	0.0484	< 0.0132	0.0132
	Cadmium	Partial Carcass	< 0.00968	0.00968	< 0.00263	0.00263
	Chromium	Partial Carcass	< 0.484	0.484	< 0.132	0.132
	Copper	Partial Carcass	2.56	0.484	0.696	0.132
	Iron	Partial Carcass	130.	0.970	35.4	0.264
	Mercury	Partial Carcass	0.136	0.00400	0.0370	0.00109
	Magnesium	Partial Carcass	1300	1.94	354	0.528
	Manganese	Partial Carcass	14.8	0.194	4.03	0.0528
	Molybdenum	Partial Carcass	< 0.970	0.970	< 0.264	0.264
	Nickel	Partial Carcass	< 0.484	0.484	< 0.132	0.132
	Lead	Partial Carcass	0.343	0.0484	0.0933	0.0132
	Selenium	Partial Carcass	1.69	0.0484	0.460	0.0132
	Strontium	Partial Carcass	104	0.0484	28.3	0.0132
	Vanadium	Partial Carcass	< 0.484	0.484	< 0.132	0.132
	Zinc	Partial Carcass	135	0.194	36.7	0.0528
	Methyl Mercury	Partial Carcass	0.143	0.00675	0.0389	0.00184
7-08-4						
	Aluminum	Partial Carcass	394	0.449	104	0.119
	Arsenic	Partial Carcass	3.43	0.0449	0.909	0.0119
	Boron	Partial Carcass	< 0.449	0.449	< 0.119	0.119
	Barium	Partial Carcass	64.2	0.0900	17.0	0.0238
	Beryllium	Partial Carcass	< 0.0449	0.0449	< 0.0119	0.0119
	Cadmium	Partial Carcass	< 0.00899	0.00899	< 0.00238	0.00238

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Chromium	Partial Carcass	< 0.449	0.449	< 0.119	0.119
	Copper	Partial Carcass	3.07	0.449	0.814	0.119
	Iron	Partial Carcass	590.	0.900	156	0.238
	Mercury	Partial Carcass	0.219	0.00440	0.0580	0.00117
	Magnesium	Partial Carcass	1520	1.80	403	0.477
	Manganese	Partial Carcass	35.6	0.180	9.43	0.0477
	Molybdenum	Partial Carcass	< 0.900	0.900	< 0.238	0.238
	Nickel	Partial Carcass	0.867	0.449	0.230	0.119
	Lead	Partial Carcass	0.908	0.0449	0.241	0.0119
	Selenium	Partial Carcass	1.84	0.0449	0.488	0.0119
	Strontium	Partial Carcass	121	0.0449	32.1	0.0119
	Vanadium	Partial Carcass	1.35	0.449	0.358	0.119
	Zinc	Partial Carcass	145	0.180	38.4	0.0477
	Methyl Mercury	Partial Carcass	0.199	0.00982	0.0527	0.00260
7-08-5						
	Aluminum	Partial Carcass	205	0.470	58.4	0.134
	Arsenic	Partial Carcass	3.20	0.0470	0.912	0.0134
	Boron	Partial Carcass	< 0.470	0.470	< 0.134	0.134
	Barium	Partial Carcass	42.0	0.0940	12.0	0.0268
	Beryllium	Partial Carcass	< 0.0470	0.0470	< 0.0134	0.0134
	Cadmium	Partial Carcass	< 0.00940	0.00940	< 0.00268	0.00268
	Chromium	Partial Carcass	< 0.470	0.470	< 0.134	0.134
	Copper	Partial Carcass	3.22	0.470	0.918	0.134
	Iron	Partial Carcass	314	0.940	89.5	0.268
	Mercury	Partial Carcass	0.204	0.00450	0.0581	0.00128
	Magnesium	Partial Carcass	1470	1.88	419	0.536
	Manganese	Partial Carcass	38.8	0.188	11.1	0.0536
	Molybdenum	Partial Carcass	< 0.940	0.940	< 0.268	0.268
	Nickel	Partial Carcass	0.622	0.470	0.177	0.134

Sample Number	Analyte	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	Lead	Partial Carcass	0.435	0.0470	0.124	0.0134
	Selenium	Partial Carcass	1.92	0.0470	0.547	0.0134
	Strontium	Partial Carcass	128	0.0470	36.5	0.0134
	Vanadium	Partial Carcass	0.708	0.470	0.202	0.134
	Zinc	Partial Carcass	153	0.188	43.6	0.0536
	Methyl Mercury	Partial Carcass	0.221	0.00742	0.0630	0.00211
7-08-6						
	Aluminum	Partial Carcass	30.8	0.456	8.84	0.131
	Arsenic	Partial Carcass	2.80	0.0456	0.804	0.0131
	Boron	Partial Carcass	< 0.456	0.456	< 0.131	0.131
	Barium	Partial Carcass	26.3	0.0910	7.55	0.0261
	Beryllium	Partial Carcass	< 0.0456	0.0456	< 0.0131	0.0131
	Cadmium	Partial Carcass	< 0.00913	0.00913	< 0.00262	0.00262
	Chromium	Partial Carcass	< 0.456	0.456	< 0.131	0.131
	Copper	Partial Carcass	2.78	0.456	0.798	0.131
	Iron	Partial Carcass	68.7	0.910	19.7	0.261
	Mercury	Partial Carcass	0.357	0.00410	0.102	0.00118
	Magnesium	Partial Carcass	1260	1.83	362	0.525
	Manganese	Partial Carcass	14.0	0.183	4.02	0.0525
	Molybdenum	Partial Carcass	< 0.910	0.910	< 0.261	0.261
	Nickel	Partial Carcass	< 0.456	0.456	< 0.131	0.131
	Lead	Partial Carcass	0.136	0.0456	0.0390	0.0131
	Selenium	Partial Carcass	1.92	0.0456	0.551	0.0131
	Strontium	Partial Carcass	98.8	0.0456	28.4	0.0131
	Vanadium	Partial Carcass	< 0.456	0.456	< 0.131	0.131
	Zinc	Partial Carcass	132	0.183	37.9	0.0525
	Methyl Mercury	Partial Carcass	0.360	0.00746	0.103	0.00214

6. Duplicates

Sample Number	Analyte	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average (ppm/%)	Relative Percent Diff.
06385810							
	Aluminum	Water	Wet	0.905	0.892	0.899	1.45
	Arsenic	Water	Wet	0.00440	0.00433	0.00436	1.60
	Boron	Water	Wet	0.116	0.115	0.116	0.870
	Barium	Water	Wet	0.106	0.105	0.106	0.950
	Beryllium	Water	Wet	< 0.000500	< 0.000500	0.000250	0.000
	Cadmium	Water	Wet	0.000260	0.000260	0.000260	0.000
	Chromium	Water	Wet	< 0.00500	< 0.00500	0.00250	0.000
	Copper	Water	Wet	0.0130	0.0130	0.0130	0.000
	Iron	Water	Wet	1.04	1.03	1.04	0.970
	Mercury	Water	Wet	0.00000300	0.00000300	0.00000300	0.000
	Magnesium	Water	Wet	4.48	4.42	4.45	1.35
	Manganese	Water	Wet	0.0750	0.0740	0.0745	1.34
	Molybdenum	Water	Wet	< 0.0100	< 0.0100	0.00500	0.000
	Nickel	Water	Wet	0.00800	0.00800	0.00800	0.000
	Lead	Water	Wet	0.0120	0.0119	0.0120	0.840
	Selenium	Water	Wet	0.000200	0.000300	0.000250	40.0
	Strontium	Water	Wet	0.264	0.263	0.264	0.380
	Vanadium	Water	Wet	0.00700	0.00600	0.00650	15.4
	Zinc	Water	Wet	0.0700	0.0680	0.0690	2.90
1-07-2							
	Methyl Mercury	Partial Carcass	Dry	0.221	0.249	0.235	11.9
4-07-1							
	Aluminum	Partial Carcass	Dry	382	359	370.	6.21
	Arsenic	Partial Carcass	Dry	3.02	3.28	3.15	8.25
	Boron	Partial Carcass	Dry	< 0.511	< 0.500	0.253	2.18
	Barium	Partial Carcass	Dry	79.0	73.2	76.1	7.62

Sample Number	Analyte	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average (ppm/%)	Relative Percent Diff.
	Beryllium	Partial Carcass	Dry	< 0.0511	< 0.0500	0.0253	2.18
	Cadmium	Partial Carcass	Dry	< 0.0193	< 0.0189	0.00955	2.09
	Chromium	Partial Carcass	Dry	0.618	0.533	0.576	14.8
	Copper	Partial Carcass	Dry	3.49	3.25	3.37	7.12
	Iron	Partial Carcass	Dry	457	401	429	13.0
	Magnesium	Partial Carcass	Dry	1730	1620	1680	6.57
	Manganese	Partial Carcass	Dry	32.4	28.6	30.5	12.5
	Molybdenum	Partial Carcass	Dry	< 1.02	< 1.00	0.505	1.98
	Nickel	Partial Carcass	Dry	1.24	1.12	1.18	10.2
	Lead	Partial Carcass	Dry	0.376	0.361	0.368	4.07
	Selenium	Partial Carcass	Dry	2.00	2.03	2.01	1.49
	Strontium	Partial Carcass	Dry	138	125	132	9.89
	Vanadium	Partial Carcass	Dry	1.32	1.32	1.32	0.000
	Zinc	Partial Carcass	Dry	140.	134	137	4.38
4-07-4							
	Mercury	Partial Carcass	Dry	0.161	0.155	0.158	3.80
4-07-5							
	Aluminum	Partial Carcass	Dry	201	210.	206	4.38
	Arsenic	Partial Carcass	Dry	2.79	3.05	2.92	8.90
	Boron	Partial Carcass	Dry	0.758	< 0.425	0.485	112
	Barium	Partial Carcass	Dry	29.7	30.5	30.1	2.66
	Beryllium	Partial Carcass	Dry	< 0.0493	< 0.0425	0.0229	14.8
	Cadmium	Partial Carcass	Dry	< 0.00987	< 0.00850	0.00459	14.9
	Chromium	Partial Carcass	Dry	< 0.493	< 0.425	0.229	14.8
	Copper	Partial Carcass	Dry	3.00	2.93	2.96	2.36
	Iron	Partial Carcass	Dry	294	305	300.	3.67
	Magnesium	Partial Carcass	Dry	1360	1400	1380	2.90
	Manganese	Partial Carcass	Dry	35.1	34.7	34.9	1.15
	Molybdenum	Partial Carcass	Dry	< 0.990	< 0.850	0.460	15.2

Sample Number	Analyte	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average (ppm/%)	Relative Percent Diff.
	Nickel	Partial Carcass	Dry	< 0.493	0.473	0.360	63.0
	Lead	Partial Carcass	Dry	0.562	0.475	0.518	16.8
	Selenium	Partial Carcass	Dry	2.33	2.38	2.36	2.12
	Strontium	Partial Carcass	Dry	155	156	156	0.640
	Vanadium	Partial Carcass	Dry	0.977	0.837	0.907	15.4
	Zinc	Partial Carcass	Dry	125	123	124	1.61
4-08-4							
	Mercury	Partial Carcass	Dry	0.111	0.109	0.110	1.82
7-06-2							
	Mercury	Partial Carcass	Dry	0.273	0.275	0.274	0.730
7-08-4							
	Mercury	Partial Carcass	Dry	0.219	0.214	0.216	2.31

7. Spike Recoveries

Sample Number	Analyte	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
06385810							
	Aluminum	Water	Wet	1.00	0.905	1.10	90.5
	Arsenic	Water	Wet	0.0200	0.0178	4.55	89.0
	Boron	Water	Wet	0.500	0.495	4.31	99.0
	Barium	Water	Wet	0.500	0.499	4.72	99.8
	Beryllium	Water	Wet	0.0100	0.00985	40.0	98.5
	Cadmium	Water	Wet	0.0200	0.0199	76.9	99.7
	Chromium	Water	Wet	0.100	0.0965	40.0	96.5
	Copper	Water	Wet	0.200	0.194	15.4	97.0
	Iron	Water	Wet	2.00	1.94	1.92	97.0
	Mercury	Water	Wet	0.0000500	0.0000450	16.7	90.0
	Magnesium	Water	Wet	10.0	9.32	2.23	93.2
	Manganese	Water	Wet	0.500	0.489	6.67	97.8
	Molybdenum	Water	Wet	0.500	0.475	100.	95.0
	Nickel	Water	Wet	0.100	0.0950	12.5	95.0
	Lead	Water	Wet	0.0200	0.0193	1.67	96.5
	Selenium	Water	Wet	0.0200	0.0182	100.	91.0
	Strontium	Water	Wet	0.200	0.174	0.760	87.0
	Vanadium	Water	Wet	0.100	0.0960	14.3	96.0
	Zinc	Water	Wet	1.00	0.990	14.3	99.0
4-07-4							
	Aluminum	Partial Carcass	Dry	191	184	0.430	96.1
	Arsenic	Partial Carcass	Dry	19.1	19.1	6.19	99.8
	Boron	Partial Carcass	Dry	47.8	53.6	189	112
	Barium	Partial Carcass	Dry	9.57	9.80	0.160	102
	Beryllium	Partial Carcass	Dry	0.957	1.05	37.8	110.
	Cadmium	Partial Carcass	Dry	4.78	5.43	501	114
	Chromium	Partial Carcass	Dry	19.1	21.4	25.4	112
	Copper	Partial Carcass	Dry	19.1	21.8	5.36	114

Sample Number	Analyte	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	Iron	Partial Carcass	Dry	191	202	0.370	106
	Magnesium	Partial Carcass	Dry	957	1030	0.560	108
	Manganese	Partial Carcass	Dry	47.8	54.3	1.68	113
	Molybdenum	Partial Carcass	Dry	9.57	10.7	19.0	112
	Nickel	Partial Carcass	Dry	9.57	10.5	7.59	110.
	Lead	Partial Carcass	Dry	9.57	9.44	17.2	98.7
	Selenium	Partial Carcass	Dry	4.78	4.96	2.31	104
	Strontium	Partial Carcass	Dry	19.1	18.0	0.150	94.0
	Vanadium	Partial Carcass	Dry	19.1	21.2	12.3	111
	Zinc	Partial Carcass	Dry	95.7	109	0.760	114
4-08-6							
	Mercury	Partial Carcass	Dry	0.703	0.739	5.86	105
7-06-3							
	Mercury	Partial Carcass	Dry	0.602	0.621	2.94	103
7-08-1							
	Mercury	Partial Carcass	Dry	0.942	0.978	4.91	104
7-08-2							
	Aluminum	Partial Carcass	Dry	246	291	0.590	118
	Arsenic	Partial Carcass	Dry	24.6	22.0	6.55	89.8
	Boron	Partial Carcass	Dry	61.4	60.7	265	98.8
	Barium	Partial Carcass	Dry	12.3	11.1	0.180	90.4
	Beryllium	Partial Carcass	Dry	1.23	1.33	53.0	108
	Cadmium	Partial Carcass	Dry	6.14	6.58	267	107
	Chromium	Partial Carcass	Dry	24.6	25.8	106	105
	Copper	Partial Carcass	Dry	24.6	26.6	7.70	108
	Iron	Partial Carcass	Dry	246	312	0.430	127
	Magnesium	Partial Carcass	Dry	1230	1360	0.850	111
	Manganese	Partial Carcass	Dry	61.4	65.2	0.980	106
	Molybdenum	Partial Carcass	Dry	12.3	12.3	26.4	100.
	Nickel	Partial Carcass	Dry	12.3	12.7	14.2	104
	Lead	Partial Carcass	Dry	12.3	13.7	17.0	111
	Selenium	Partial Carcass	Dry	6.14	6.78	3.25	110.

Sample Number	Analyte	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	Strontium	Partial Carcass	Dry	24.6	27.0	0.230	110.
	Vanadium	Partial Carcass	Dry	24.6	25.4	20.1	103
	Zinc	Partial Carcass	Dry	123	127	0.860	103
7-08-6							
	Mercury	Partial Carcass	Dry	0.553	0.483	1.55	87.3
	Methyl Mercury	Partial Carcass	Dry	1.55	1.33	4.32	85.5

*** For a spike to be a valid measure of method accuracy, this ratio must be higher than 1.0.

10. QAQC Summary

1. Procedural Blank Summary

Procedural Blank Summary of Blank Equivalent Concentration (BEC) Data

Within a lab sample matrix, there must be three or more Blank results for a given analyte in order to generate a report.

Analyte	Lab Sample Matrix	No. of Records	Basis	Lowest BEC (ppm)	Highest BEC (ppm)	BEC Mean (ppm)	BEC STDEV
Mercury	Animal Tissue	4	Dry	< 0.00430	< 0.00704	0.00280	0.000640

BEC = Blank Equivalent Concentration   STD = Standard Deviation

10.2. Duplicate Summary

Duplicate Summary of Relative Percent Difference (RPD) Data

Within a lab sample matrix and concentration range, there must be three or more Duplicate results for a given analyte in order to generate a report.

Mean concentration greater than 10 times the Limit of Detection						
Analyte	**Lab Sample Matrix**	**No. of Samples**	**Lowest RPD**	**Highest RPD**	**RPD Mean (ppm)**	**RPD STD**
Mercury	Animal Tissue	4	0.73	3.8	2.16	1.27

RPD = Relative Percent Difference STD = Standard Deviation

10.3. Spike Summary

Spike Summary of Percent Recovery (PR) Data

Within a lab sample matrix, there must be three or more Spike results for a given analyte in order to generate a report.

Analyte	Lab Sample Matrix	No. of Samples	Lowest PR	Highest PR	PR Mean	PR STD
Mercury	Animal Tissue	4	87.34	105.09	99.83	8.36

PR = Percent Recovery STD = Standard Deviation

10.4. SRM Summary

Standard Reference Material Summary of Percent Recovery (PR) Data

Within an SRM ID, there must be three or more Recoveries for a given analyte in order to generate a report.

SRM ID: NRCC DOLT-3 SRM Name: Dogfish Liver					
Analyte	**No. of Records**	**Lowest PR**	**Highest PR**	**PR Mean**	**PR STDEV**
Mercury	4	102.37	107.42	105.71	2.26

SRM ID: NRCC DORM-2 SRM Name: Dogfish Muscle					
Analyte	**No. of Records**	**Lowest PR**	**Highest PR**	**PR Mean**	**PR STDEV**
Mercury	4	93.32	104.31	97.58	4.87

PR = Percent Recovery STD = Standard Deviation

11. QA/QC Anomalies

1. Blank Frequency Anomalies

The required number of blank analyses were performed.

11.2. Duplicate Frequency Anomalies

The required number of duplicate analyses were performed.

11.3. Spike Frequency Anomalies

The required number of spike analyses were performed.

11.4. Reference Material Frequency Anomalies

The required number of Standard Reference Material analyses were performed.

11.5. Mass Spec Frequency Anomalies

No Carbamate, OC, or OP data exists in this set of results; therefore, the anomaly test was not performed.

11.6. Limit of Detection Anomalies

Limits of Detection were within the contract requirements.

11.7. Blank Anomalies

Procedural Blank analyses were acceptable.

11.8. Duplicate Anomalies

All duplicate results were within normal limits.

11.9. Spike Anomalies

All spike results were within normal limits.

11.10. S.R.M. Anomalies

All SRM results were within normal limits with the following exceptions.

Analyte	S.R.M. ID	Certified Value	95% Confidence Interval	LOD (ppm/%)	Result (ppm/%)	% Recovery	See QA/QC Note No.
Manganese	NIST 2976	33.0	2.00	0.207	38.6	117	1
Strontium	NIST 2976	93.0	2.00	0.0459	65.2	70.1	2

S.R.M Names

SRM ID	SRM Name
NIST 2976	Mussel Tissue

11.11. QA/QC Notes

QA/QC Note Number and Comments
Sample IDs 7-08-2, 7-08-3, 7-08-5 and 7-08-6 had ratios of greater than 1 for MeHg:Hg in the data report. To express MeHg as Hg you have to divide the MeHg based values by approx. 1.075. In doing this, the ratio values for all samples that were analyzed for MeHg and Hg are acceptable. 1-2 The values are acceptable for Mn and Sr in SRM Nist 2976 and should have no effect on the interpretation of the data. QA/QC Approved: Brenda Montgomery, Inorganic Analytical Chemist

12. Analytical Methods

Below are the analytical methods used by TERL to produce the results included in this report.

Method Codes:	001 005

Lab Matrix	Analyte
Animal Tissue	Aluminum
	Boron
	Barium
	Beryllium
	Chromium
	Copper
	Iron
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Strontium
	Vanadium
	Zinc

Method Code: 001

LABORATORY: Trace Element Research Laboratory

Digestion of biological tissue.

Liquid or solid biological tissue samples are wet digested with nitric acid and converted into acidic digest solutions for analysis by various atomic spectroscopy methods. When possible, tissue is freeze dried in order to minimize loss of analytes and to facilitate subsequent sample preparation steps, and then homogenized to a fine powder by ball-milling in plastic containers. Approximately 0.20 to 0.25 g of powdered tissue is weighed into a Teflon reaction vessel and 3 ml of HNO3 are added. The closed reaction vessel is heated in a 130 C oven until digestion is complete. Samples are then diluted to a final volume of 20 ml with quartz distilled water and stored in 1 oz. polyethylene bottles for later analysis by instrumental techniques.

Method Code: 005

LABORATORY: Trace Element Research Laboratory

Analysis of trace metals by inductively coupled plasma
optical emission spectroscopy (ICP).

Liquid samples are nebulized and the resulting aerosol is transported to the plasma torch. Element-specific atomic-line emission spectra are produced by a inductively coupled argon plasma. The spectra are dispersed by a grating spectrometer, and the intensities of the lines are monitored by photomultiplier tubes or solid state detectors. Samples are quantitated by comparison with external standards. One or more internal standards may be incorporated to compensate for physical effects resulting from viscosity and varying levels of total dissolved solids in the samples. Background correction is required and is measured adjacent to analyte lines on samples during analysis.

Method Codes:	001 016

Lab Matrix	**Analyte**
Animal Tissue	Arsenic
	Cadmium
	Lead
	Selenium

Method Code: 001

LABORATORY: Trace Element Research Laboratory

Digestion of biological tissue.

Liquid or solid biological tissue samples are wet digested with nitric acid and converted into acidic digest solutions for analysis by various atomic spectroscopy methods. When possible, tissue is freeze dried in order to minimize loss of analytes and to facilitate subsequent sample preparation steps, and then homogenized to a fine powder by ball-milling in plastic containers. Approximately 0.20 to 0.25 g of powdered tissue is weighed into a Teflon reaction vessel and 3 ml of HNO3 are added. The closed reaction vessel is heated in a 130 C oven until digestion is complete. Samples are then diluted to a final volume of 20 ml with quartz distilled water and stored in 1 oz. polyethylene bottles for later analysis by instrumental techniques.

Method Code: 016

LABORATORY: Trace Element Research Laboratory

Analysis of trace metals in water samples by inductively
coupled plasma-mass spectroscopy (ICP-MS).

Concentrations of trace elements in water samples are determined with an atomic spectroscopy method that relies on ionization of sample constituents in a high temperature argon plasma and separation of positively-charged ions on the basis of their

mass:charge ratios (m:z) by a quadrupole mass spectrometer. The method offers extremely low detection limits but is subject to interferences from atomic and molecular ions having values within 1 AMU of the target ions. Sample preconcentration and matrix elimination can sometimes eliminate these problems, along with those resulting from high total dissolved solids.

Method Codes:	003 007

Lab Matrix	Analyte
Water	Mercury

Method Code: 003

LABORATORY: Trace Element Research Laboratory

Digestion of water, soil, sediment, and biological tissue
for mercury analysis.

Before samples are analyzed by the CVAAS method in use in this laboratory, the mercury is converted to the Hg2+ form. Mercury is digested by a modified version of EPA method 245.5 and 245.6. Sediment and tissue samples can be analyzed either freeze dried or on a wet basis. Sediment samples are homogenized by mixing before subsampling, while tissue samples are homogenized in the original sample containers either after freeze drying or with a Tekmar Tissumizer and subsampled. Samples are digested with nitric acid, sulfuric acid, potassium permanganate, and potassium persulfate in polypropylene tubes in a water bath at 90-95 C. Before analysis, hydroxylamine hydrochloride is added to reduce excess permanganate and the samples are brought to volume with distilled-deionized water.

Method Code: 007

LABORATORY: Trace Element Research Laboratory

Analysis of mercury by cold-vapor atomic absorption
spectroscopy (CVAAS).

In this procedure, divalent mercury (Hg++) in aqueous samples (digests of water, tissue or sediment samples) is reduced to the elemental state (Hgo) by a strong reducing agent (stannous chloride). Gaseous Hgo enters the sweep gas and is introduced into an atomic absorption cell, where light produced by a mercury vapor lamp is absorbed by the free Hg atoms. Mercury in the sample is determined by comparing light absorption of the sample with that of external calibration standards.

Method Codes:	004 005

Lab Matrix	Analyte
Water	Aluminum
	Boron
	Barium
	Beryllium
	Chromium
	Copper
	Iron
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Strontium
	Vanadium
	Zinc

Method Code: 004

LABORATORY: Trace Element Research Laboratory

Digestion of water samples for "total recoverable" metals
(other than mercury).

Water samples are digested for two hours at 85 degrees Centigrade in polyethylene containers with ultrapure nitric and hydrochloric acids. Acid strength, on a vol:vol basis, is 1% HCl and 0.5% HNO3. Sample aliquots for digestion are taken after vigorous shaking to assure resuspension of solids that may have settled. The original sample must have had preservative added (usually HNO3) in order to ensure that metals do not adhere to the walls of the container.

Method Code: 005

LABORATORY: Trace Element Research Laboratory

Analysis of trace metals by inductively coupled plasma
optical emission spectroscopy (ICP).

Liquid samples are nebulized and the resulting aerosol is transported to the plasma torch. Element-specific atomic-line emission spectra are produced by a inductively coupled argon plasma. The spectra are dispersed by a grating spectrometer, and the intensities of the lines are monitored by photomultiplier tubes or solid state detectors. Samples are quantitated by comparison with external standards. One or more internal standards may be incorporated to compensate for physical effects resulting from viscosity

and varying levels of total dissolved solids in the samples. Background correction is required and is measured adjacent to analyte lines on samples during analysis.

Method Codes:	004 016

Lab Matrix	Analyte
Water	Arsenic
	Cadmium
	Lead
	Selenium

Method Code: 004

LABORATORY: Trace Element Research Laboratory

Digestion of water samples for "total recoverable" metals
(other than mercury).

Water samples are digested for two hours at 85 degrees Centigrade in polyethylene containers with ultrapure nitric and hydrochloric acids. Acid strength, on a vol:vol basis, is 1% HCl and 0.5% HNO3. Sample aliquots for digestion are taken after vigorous shaking to assure resuspension of solids that may have settled. The original sample must have had preservative added (usually HNO3) in order to ensure that metals do not adhere to the walls of the container.

Method Code: 016

LABORATORY: Trace Element Research Laboratory

Analysis of trace metals in water samples by inductively
coupled plasma-mass spectroscopy (ICP-MS).

Concentrations of trace elements in water samples are determined with an atomic spectroscopy method that relies on ionization of sample constituents in a high temperature argon plasma and separation of positively-charged ions on the basis of their mass:charge ratios (m:z) by a quadrupole mass spectrometer. The method offers extremely low detection limits but is subject to interferences from atomic and molecular ions having values within 1 AMU of the target ions. Sample preconcentration and matrix elimination can sometimes eliminate these problems, along with those resulting from high total dissolved solids.

Method Codes:	014

Lab Matrix	Analyte
Animal Tissue	% Moisture

Method Code: 014
LABORATORY: Trace Element Research Laboratory Moisture content of sediment, soil, and tissue samples. Moisture content is determined by weight loss upon freeze-drying, and is expressed as weight percent of the original wet sample. Depending upon sample size, either the whole sample or a representative aliquot is frozen and then dried under vacuum until a constant weight is attained. Samples are prepared and dried using plastic materials, whenever possible, in order to minimize potential contamination artifacts that might impact subsequent trace element analysis.

Method Codes:	024

Lab Matrix	Analyte
Animal Tissue	Mercury

Method Code: 024
LABORATORY: Trace Element Research Laboratory Determination of mercury in tissue and sediment Determination of mercury in tissue and sediment samples by decomposition, trapping, and atomic absorption. Total mercury is determined in wet or dry samples by combustion in a stream of oxygen, trapping on a gold column, release by electrothermal heating, and analysis by atomic absorption. Mercury is reported in ppm on either a wet or dry weight basis.

Method Codes:	026

Lab Matrix	Analyte
Animal Tissue	Methyl Mercury

Method Code: 026
LABORATORY:Trace Element Research Laboratory Determination of methyl mercury in water Determination of methyl mercury in water by distillation, ethylation, trapping, gas chromatography, and atomic fluorescence. Methyl mercury in water is distilled to separate it from interfering species and then ethylated with sodium tetraethyl borate. Methyl ethyl mercury is trapped on a Tenax column and then separated on an isothermal GC column. Following pyrolysis of the separated species, Hg is detected by atomic fluorescence.

Appendix 3B. Organic Analytical Results for Rio Grande Silvery Minnow Health Study Catalog 2020128 by TDI Brooks International, Inc., College Station, Texas.

Analytical Results Report TOC

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1. ECDMS Analytical Results Report 4/12/2010

Catalog Number	Purchase Order Number	Lab ID	Catalog Submitter	ECDMS User ID
2020128	94420-09-Y005	TDI	Lusk, Joel - Albuquerque, NM	r2alfo

Catalog Title	Rio Grande Silvery Minnow Health Study
Lab Name:	TDI - Brooks International, Inc.

Notes, Symbols and Abbreviations Used
Based on the report options selected the report should be **printed in landscape mode**
Notes, Symbols and Abbreviations Used The following may appear before a reported result (e.g. < 1234). < - Less than symbol indicates that the actual result is less than the reported detection limit. > - Greater than symbol indicates that the actual result is greater than the reported result.
All results are reported as 3 significant digits.
All results are reported as parts per million (ppm), or percent, unless otherwise noted.

1. Integrity Report

Lab Receipt Date	09/03/2009	Lab Approval Date	09/03/2009

Catalog Problems
No problems reported
Problem Resolution

2. Bulk Data

Sample Number	Sample Matrix	Sample Weight (grams)	Percent Lipid	Percent Moisture
1-08-1	Partial Carcass	31.9	4.07	76.4
1-08-2	Partial Carcass	52.6	4.30	73.8
1-08-3	Partial Carcass	50.3	4.95	72.6
1-08-4	Partial Carcass	47.1	6.56	74.1
1-08-6	Partial Carcass	55.9	7.46	73.3
10-06-1	Partial Carcass	38.5	7.70	73.3
10-06-2	Partial Carcass	77.8	5.37	74.6
10-06-3	Partial Carcass	79	6.56	70.0
10-06-4	Partial Carcass	122	7.75	71.3
10-06-5	Partial Carcass	110.2	7.85	69.9
10-07-1	Partial Carcass	25.7	5.25	71.7
10-07-2	Partial Carcass	26.7	6.90	71.4
10-07-3	Partial Carcass	43.3	8.20	70.6
10-07-4	Partial Carcass	39.8	5.68	76.4
10-07-5	Partial Carcass	46.9	5.77	73.7
10-07-6	Partial Carcass	29	6.00	74.5
4-08-1	Partial Carcass	33.5	7.51	76.2
4-08-2	Partial Carcass	47.2	6.11	74.3
4-08-3	Partial Carcass	189.9	7.73	72.4
4-08-4	Partial Carcass	134.7	5.49	73.3
4-08-6	Partial Carcass	32.4	5.57	74.8
7-06-1	Partial Carcass	79.6	5.47	73.9
7-06-2	Partial Carcass	83.6	6.80	74.1
7-06-3	Partial Carcass	32.9	5.93	74.2
7-06-4	Partial Carcass	59	10.8	69.0
7-06-5	Partial Carcass	64.5	7.73	72.1
7-06-6	Partial Carcass	40.3	8.00	73.5
06385810	Water			

4. Contaminant Concentrations

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
1,2,3,4,6,7,8-HpCDD						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
1,2,3,4,6,7,8-HpCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
1,2,3,4,7,8,9-HpCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
1,2,3,4,7,8-HxCDD						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
1,2,3,4,7,8-HxCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
1,2,3,4-Tetrachlorobenzene						
	*10-06-1	Partial Carcass	< 0.000565	0.000565	< 0.000151	0.000151
	*10-06-2	Partial Carcass	< 0.000592	0.000592	< 0.000151	0.000151
	*10-06-3	Partial Carcass	< 0.000502	0.000502	< 0.000151	0.000151
	*10-06-4	Partial Carcass	< 0.000525	0.000525	< 0.000151	0.000151
	*10-06-5	Partial Carcass	< 0.000501	0.000501	< 0.000151	0.000151
	*10-07-1	Partial Carcass	< 0.000532	0.000532	< 0.000151	0.000151
	*10-07-2	Partial Carcass	< 0.000528	0.000528	< 0.000151	0.000151
	*10-07-3	Partial Carcass	< 0.000513	0.000513	< 0.000151	0.000151
	*10-07-4	Partial Carcass	< 0.000639	0.000639	< 0.000151	0.000151
	*10-07-5	Partial Carcass	< 0.000573	0.000573	< 0.000151	0.000151

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-6	Partial Carcass	< 0.000590	0.000590	< 0.000151	0.000151
	*4-08-6	Partial Carcass	< 0.000597	0.000597	< 0.000151	0.000151
1,2,3,6,7,8-HxCDD						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
1,2,3,6,7,8-HxCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
1,2,3,7,8,9-HxCDD						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
1,2,3,7,8,9-HxCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
1,2,3,7,8-PeCDD						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
1,2,3,7,8-PeCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
1,2,4,5-Tetrachlorobenzene						
	*10-06-1	Partial Carcass	< 0.00101	0.00101	< 0.000269	0.000269

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-06-2	Partial Carcass	< 0.00106	0.00106	< 0.000269	0.000269
	*10-06-3	Partial Carcass	< 0.000898	0.000898	< 0.000269	0.000269
	*10-06-4	Partial Carcass	< 0.000938	0.000938	< 0.000269	0.000269
	*10-06-5	Partial Carcass	< 0.000895	0.000895	< 0.000269	0.000269
	*10-07-1	Partial Carcass	< 0.000951	0.000951	< 0.000269	0.000269
	*10-07-2	Partial Carcass	< 0.000943	0.000943	< 0.000269	0.000269
	*10-07-3	Partial Carcass	< 0.000917	0.000917	< 0.000269	0.000269
	*10-07-4	Partial Carcass	< 0.00114	0.00114	< 0.000269	0.000269
	*10-07-5	Partial Carcass	< 0.00102	0.00102	< 0.000269	0.000269
	*10-07-6	Partial Carcass	< 0.00106	0.00106	< 0.000269	0.000269
	*4-08-6	Partial Carcass	< 0.00107	0.00107	< 0.000269	0.000269
1,6,7-Trimethyl-naphthalene						
	1-08-1	Partial Carcass	< 0.00191	0.00191	< 0.000451	0.000451
	1-08-2	Partial Carcass	< 0.00170	0.00170	< 0.000446	0.000446
	1-08-3	Partial Carcass	< 0.00163	0.00163	< 0.000447	0.000447
	1-08-4	Partial Carcass	< 0.00173	0.00173	< 0.000450	0.000450
	1-08-6	Partial Carcass	< 0.00164	0.00164	< 0.000438	0.000438
1-methylnaphthalene						
	1-08-1	Partial Carcass	0.0110	0.00319	0.00260	0.000755
	1-08-2	Partial Carcass	0.0141	0.00285	0.00370	0.000747
	1-08-3	Partial Carcass	0.0124	0.00274	0.00340	0.000749
	1-08-4	Partial Carcass	0.0139	0.00291	0.00360	0.000754
	1-08-6	Partial Carcass	0.00787	0.00275	0.00210	0.000735
1-methylphenanthrene						
	1-08-1	Partial Carcass	< 0.00216	0.00216	< 0.000511	0.000511
	1-08-2	Partial Carcass	0.0298	0.00193	0.00780	0.000506
	1-08-3	Partial Carcass	0.00658	0.00185	0.00180	0.000507
	1-08-4	Partial Carcass	< 0.00197	0.00197	< 0.000510	0.000510
	1-08-6	Partial Carcass	0.0176	0.00187	0.00470	0.000498

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
2,3,4,6,7,8-HxCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
2,3,4,7,8-PeCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
2,3,7,8-TCDD						
	10-06-1	Partial Carcass	< 0.00000686	0.00000686	< 0.00000183	0.00000183
	10-06-2	Partial Carcass	< 0.00000743	0.00000743	< 0.00000189	0.00000189
	10-06-3	Partial Carcass	< 0.00000653	0.00000653	< 0.00000196	0.00000196
	10-06-4	Partial Carcass	< 0.00000690	0.00000690	< 0.00000198	0.00000198
	10-07-1	Partial Carcass	< 0.00000702	0.00000702	< 0.00000199	0.00000199
	10-07-2	Partial Carcass	< 0.00000690	0.00000690	< 0.00000197	0.00000197
	10-07-3	Partial Carcass	< 0.00000664	0.00000664	< 0.00000195	0.00000195
	10-07-4	Partial Carcass	< 0.00000797	0.00000797	< 0.00000188	0.00000188
2,3,7,8-TCDF						
	10-06-1	Partial Carcass	< 0.00000686	0.00000686	< 0.00000183	0.00000183

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-2	Partial Carcass	< 0.00000743	0.00000743	< 0.00000189	0.00000189
	10-06-3	Partial Carcass	< 0.00000653	0.00000653	< 0.00000196	0.00000196
	10-06-4	Partial Carcass	< 0.00000690	0.00000690	< 0.00000198	0.00000198
	10-07-1	Partial Carcass	< 0.00000702	0.00000702	< 0.00000199	0.00000199
	10-07-2	Partial Carcass	< 0.00000690	0.00000690	< 0.00000197	0.00000197
	10-07-3	Partial Carcass	< 0.00000664	0.00000664	< 0.00000195	0.00000195
	10-07-4	Partial Carcass	< 0.00000797	0.00000797	< 0.00000188	0.00000188
2,6-dimethylnaphthalene						
	1-08-1	Partial Carcass	0.00296	0.00278	0.000700	0.000658
	1-08-2	Partial Carcass	0.00382	0.00249	0.00100	0.000651
	1-08-3	Partial Carcass	0.00475	0.00238	0.00130	0.000652
	1-08-4	Partial Carcass	0.00386	0.00253	0.00100	0.000656
	1-08-6	Partial Carcass	< 0.00240	0.00240	< 0.000640	0.000640
2-methylnaphthalene						
	1-08-1	Partial Carcass	0.0216	0.00345	0.00510	0.000816
	1-08-2	Partial Carcass	0.0260	0.00308	0.00680	0.000808
	1-08-3	Partial Carcass	0.0216	0.00296	0.00590	0.000809
	1-08-4	Partial Carcass	0.0220	0.00314	0.00570	0.000814
	1-08-6	Partial Carcass	0.0142	0.00298	0.00380	0.000794
Aldrin						
	*10-06-1	Partial Carcass	< 0.000458	0.000458	< 0.000122	0.000122
	*10-06-2	Partial Carcass	< 0.000481	0.000481	< 0.000122	0.000122
	*10-06-3	Partial Carcass	< 0.000408	0.000408	< 0.000122	0.000122
	*10-06-4	Partial Carcass	< 0.000426	0.000426	< 0.000122	0.000122
	*10-06-5	Partial Carcass	< 0.000406	0.000406	< 0.000122	0.000122
	*10-07-1	Partial Carcass	< 0.000432	0.000432	< 0.000122	0.000122
	*10-07-2	Partial Carcass	< 0.000428	0.000428	< 0.000122	0.000122
	*10-07-3	Partial Carcass	< 0.000416	0.000416	< 0.000122	0.000122
	*10-07-4	Partial Carcass	< 0.000518	0.000518	< 0.000122	0.000122

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-5	Partial Carcass	< 0.000465	0.000465	< 0.000122	0.000122
	*10-07-6	Partial Carcass	< 0.000479	0.000479	< 0.000122	0.000122
	*4-08-6	Partial Carcass	< 0.000484	0.000484	< 0.000122	0.000122
BDE# 1						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 10						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 100						
	4-08-1	Partial Carcass	0.00420	0.00156	0.00100	0.000370

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-2	Partial Carcass	0.0121	0.00141	0.00310	0.000363
	4-08-3	Partial Carcass	0.0323	0.00132	0.00890	0.000364
	4-08-4	Partial Carcass	0.0604	0.00141	0.0161	0.000376
	4-08-6	Partial Carcass	0.0139	0.00142	0.00350	0.000360
	7-06-1	Partial Carcass	0.0233	0.00139	0.00610	0.000364
	7-06-2	Partial Carcass	0.0263	0.00142	0.00680	0.000367
	7-06-3	Partial Carcass	0.104	0.00144	0.0269	0.000370
	7-06-4	Partial Carcass	0.144	0.00114	0.0447	0.000355
	7-06-5	Partial Carcass	0.0555	0.00128	0.0155	0.000358
	7-06-6	Partial Carcass	0.0343	0.00130	0.00910	0.000345
BDE# 11						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 116						
	4-08-1	Partial Carcass	< 0.000797	0.000797	< 0.000190	0.000190
	4-08-2	Partial Carcass	< 0.000724	0.000724	< 0.000186	0.000186
	4-08-3	Partial Carcass	< 0.000676	0.000676	< 0.000186	0.000186
	4-08-4	Partial Carcass	< 0.000722	0.000722	< 0.000192	0.000192
	4-08-6	Partial Carcass	< 0.000730	0.000730	< 0.000184	0.000184
	7-06-1	Partial Carcass	< 0.000713	0.000713	< 0.000186	0.000186

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-2	Partial Carcass	< 0.000726	0.000726	< 0.000188	0.000188
	7-06-3	Partial Carcass	< 0.000736	0.000736	< 0.000190	0.000190
	7-06-4	Partial Carcass	< 0.000587	0.000587	< 0.000182	0.000182
	7-06-5	Partial Carcass	< 0.000657	0.000657	< 0.000183	0.000183
	7-06-6	Partial Carcass	< 0.000667	0.000667	< 0.000177	0.000177
BDE# 118						
	4-08-1	Partial Carcass	< 0.000797	0.000797	< 0.000190	0.000190
	4-08-2	Partial Carcass	< 0.000724	0.000724	< 0.000186	0.000186
	4-08-3	Partial Carcass	< 0.000676	0.000676	< 0.000186	0.000186
	4-08-4	Partial Carcass	< 0.000722	0.000722	< 0.000192	0.000192
	4-08-6	Partial Carcass	< 0.000730	0.000730	< 0.000184	0.000184
	7-06-1	Partial Carcass	< 0.000713	0.000713	< 0.000186	0.000186
	7-06-2	Partial Carcass	< 0.000726	0.000726	< 0.000188	0.000188
	7-06-3	Partial Carcass	< 0.000736	0.000736	< 0.000190	0.000190
	7-06-4	Partial Carcass	< 0.000587	0.000587	< 0.000182	0.000182
	7-06-5	Partial Carcass	< 0.000657	0.000657	< 0.000183	0.000183
	7-06-6	Partial Carcass	< 0.000667	0.000667	< 0.000177	0.000177
BDE# 119						
	4-08-1	Partial Carcass	< 0.000797	0.000797	< 0.000190	0.000190
	4-08-2	Partial Carcass	< 0.000724	0.000724	< 0.000186	0.000186
	4-08-3	Partial Carcass	0.00109	0.000676	0.000300	0.000186
	4-08-4	Partial Carcass	0.00300	0.000722	0.000800	0.000192
	4-08-6	Partial Carcass	< 0.000730	0.000730	< 0.000184	0.000184
	7-06-1	Partial Carcass	< 0.000713	0.000713	< 0.000186	0.000186
	7-06-2	Partial Carcass	0.000772	0.000726	0.000200	0.000188
	7-06-3	Partial Carcass	0.00543	0.000736	0.00140	0.000190
	7-06-4	Partial Carcass	0.00645	0.000587	0.00200	0.000182
	7-06-5	Partial Carcass	0.00287	0.000657	0.000800	0.000183
	7-06-6	Partial Carcass	0.00188	0.000667	0.000500	0.000177

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
BDE# 12						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 126						
	4-08-1	Partial Carcass	< 0.000797	0.000797	< 0.000190	0.000190
	4-08-2	Partial Carcass	< 0.000724	0.000724	< 0.000186	0.000186
	4-08-3	Partial Carcass	0.000725	0.000676	0.000200	0.000186
	4-08-4	Partial Carcass	0.00112	0.000722	0.000300	0.000192
	4-08-6	Partial Carcass	< 0.000730	0.000730	< 0.000184	0.000184
	7-06-1	Partial Carcass	< 0.000713	0.000713	< 0.000186	0.000186
	7-06-2	Partial Carcass	< 0.000726	0.000726	< 0.000188	0.000188
	7-06-3	Partial Carcass	0.00155	0.000736	0.000400	0.000190
	7-06-4	Partial Carcass	0.00258	0.000587	0.000800	0.000182
	7-06-5	Partial Carcass	< 0.000657	0.000657	< 0.000183	0.000183
	7-06-6	Partial Carcass	< 0.000667	0.000667	< 0.000177	0.000177
BDE# 13						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 138						
	4-08-1	Partial Carcass	0.000840	0.000593	0.000200	0.000141
	4-08-2	Partial Carcass	< 0.000538	0.000538	< 0.000138	0.000138
	4-08-3	Partial Carcass	< 0.000503	0.000503	< 0.000139	0.000139
	4-08-4	Partial Carcass	< 0.000537	0.000537	< 0.000143	0.000143
	4-08-6	Partial Carcass	< 0.000543	0.000543	< 0.000137	0.000137
	7-06-1	Partial Carcass	< 0.000531	0.000531	< 0.000139	0.000139
	7-06-2	Partial Carcass	< 0.000540	0.000540	< 0.000140	0.000140
	7-06-3	Partial Carcass	< 0.000548	0.000548	< 0.000141	0.000141
	7-06-4	Partial Carcass	< 0.000436	0.000436	< 0.000135	0.000135
	7-06-5	Partial Carcass	< 0.000488	0.000488	< 0.000136	0.000136
	7-06-6	Partial Carcass	< 0.000496	0.000496	< 0.000132	0.000132
BDE# 15						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	0.000750	0.000681	0.000200	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	0.00272	0.000695	0.000700	0.000179
	7-06-4	Partial Carcass	0.00258	0.000553	0.000800	0.000172

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-5	Partial Carcass	0.00108	0.000620	0.000300	0.000173
	7-06-6	Partial Carcass	0.000754	0.000629	0.000200	0.000167
BDE# 153						
	4-08-1	Partial Carcass	0.000840	0.000643	0.000200	0.000153
	4-08-2	Partial Carcass	0.00156	0.000584	0.000400	0.000150
	4-08-3	Partial Carcass	0.00471	0.000546	0.00130	0.000151
	4-08-4	Partial Carcass	0.00825	0.000583	0.00220	0.000155
	4-08-6	Partial Carcass	0.00198	0.000589	0.000500	0.000149
	7-06-1	Partial Carcass	0.00191	0.000576	0.000500	0.000151
	7-06-2	Partial Carcass	0.00232	0.000586	0.000600	0.000152
	7-06-3	Partial Carcass	0.0128	0.000594	0.00330	0.000153
	7-06-4	Partial Carcass	0.0135	0.000474	0.00420	0.000147
	7-06-5	Partial Carcass	0.00358	0.000530	0.00100	0.000148
	7-06-6	Partial Carcass	0.00264	0.000538	0.000700	0.000143
BDE# 154						
	4-08-1	Partial Carcass	0.00168	0.000736	0.000400	0.000175
	4-08-2	Partial Carcass	0.00389	0.000668	0.00100	0.000172
	4-08-3	Partial Carcass	0.00979	0.000624	0.00270	0.000172
	4-08-4	Partial Carcass	0.0184	0.000666	0.00490	0.000178
	4-08-6	Partial Carcass	0.00475	0.000674	0.00120	0.000170
	7-06-1	Partial Carcass	0.00612	0.000659	0.00160	0.000172
	7-06-2	Partial Carcass	0.00734	0.000670	0.00190	0.000173
	7-06-3	Partial Carcass	0.0272	0.000680	0.00700	0.000175
	7-06-4	Partial Carcass	0.0413	0.000542	0.0128	0.000168
	7-06-5	Partial Carcass	0.0150	0.000606	0.00420	0.000169
	7-06-6	Partial Carcass	0.00980	0.000616	0.00260	0.000163
BDE# 155						
	4-08-1	Partial Carcass	< 0.000593	0.000593	< 0.000141	0.000141
	4-08-2	Partial Carcass	< 0.000538	0.000538	< 0.000138	0.000138

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-3	Partial Carcass	< 0.000503	0.000503	< 0.000139	0.000139
	4-08-4	Partial Carcass	< 0.000537	0.000537	< 0.000143	0.000143
	4-08-6	Partial Carcass	< 0.000543	0.000543	< 0.000137	0.000137
	7-06-1	Partial Carcass	< 0.000531	0.000531	< 0.000139	0.000139
	7-06-2	Partial Carcass	< 0.000540	0.000540	< 0.000140	0.000140
	7-06-3	Partial Carcass	< 0.000548	0.000548	< 0.000141	0.000141
	7-06-4	Partial Carcass	< 0.000436	0.000436	< 0.000135	0.000135
	7-06-5	Partial Carcass	< 0.000488	0.000488	< 0.000136	0.000136
	7-06-6	Partial Carcass	< 0.000496	0.000496	< 0.000132	0.000132
BDE# 166						
	4-08-1	Partial Carcass	< 0.000593	0.000593	< 0.000141	0.000141
	4-08-2	Partial Carcass	< 0.000538	0.000538	< 0.000138	0.000138
	4-08-3	Partial Carcass	< 0.000503	0.000503	< 0.000139	0.000139
	4-08-4	Partial Carcass	< 0.000537	0.000537	< 0.000143	0.000143
	4-08-6	Partial Carcass	< 0.000543	0.000543	< 0.000137	0.000137
	7-06-1	Partial Carcass	< 0.000531	0.000531	< 0.000139	0.000139
	7-06-2	Partial Carcass	< 0.000540	0.000540	< 0.000140	0.000140
	7-06-3	Partial Carcass	< 0.000548	0.000548	< 0.000141	0.000141
	7-06-4	Partial Carcass	< 0.000436	0.000436	< 0.000135	0.000135
	7-06-5	Partial Carcass	< 0.000488	0.000488	< 0.000136	0.000136
	7-06-6	Partial Carcass	< 0.000496	0.000496	< 0.000132	0.000132
BDE# 17						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-3	Partial Carcass	0.00233	0.000695	0.000600	0.000179
	7-06-4	Partial Carcass	0.00323	0.000553	0.00100	0.000172
	7-06-5	Partial Carcass	0.00108	0.000620	0.000300	0.000173
	7-06-6	Partial Carcass	0.000754	0.000629	0.000200	0.000167
BDE# 181						
	4-08-1	Partial Carcass	< 0.000550	0.000550	< 0.000131	0.000131
	4-08-2	Partial Carcass	< 0.000500	0.000500	< 0.000128	0.000128
	4-08-3	Partial Carcass	< 0.000466	0.000466	< 0.000129	0.000129
	4-08-4	Partial Carcass	< 0.000498	0.000498	< 0.000133	0.000133
	4-08-6	Partial Carcass	< 0.000504	0.000504	< 0.000127	0.000127
	7-06-1	Partial Carcass	< 0.000492	0.000492	< 0.000129	0.000129
	7-06-2	Partial Carcass	< 0.000501	0.000501	< 0.000130	0.000130
	7-06-3	Partial Carcass	< 0.000508	0.000508	< 0.000131	0.000131
	7-06-4	Partial Carcass	< 0.000405	0.000405	< 0.000126	0.000126
	7-06-5	Partial Carcass	< 0.000453	0.000453	< 0.000127	0.000127
	7-06-6	Partial Carcass	< 0.000460	0.000460	< 0.000122	0.000122
BDE# 183						
	4-08-1	Partial Carcass	0.000840	0.000550	0.000200	0.000131
	4-08-2	Partial Carcass	0.000778	0.000500	0.000200	0.000128
	4-08-3	Partial Carcass	< 0.000466	0.000466	< 0.000129	0.000129
	4-08-4	Partial Carcass	0.00112	0.000498	0.000300	0.000133
	4-08-6	Partial Carcass	< 0.000504	0.000504	< 0.000127	0.000127
	7-06-1	Partial Carcass	< 0.000492	0.000492	< 0.000129	0.000129
	7-06-2	Partial Carcass	< 0.000501	0.000501	< 0.000130	0.000130
	7-06-3	Partial Carcass	< 0.000508	0.000508	< 0.000131	0.000131
	7-06-4	Partial Carcass	< 0.000405	0.000405	< 0.000126	0.000126
	7-06-5	Partial Carcass	< 0.000453	0.000453	< 0.000127	0.000127
	7-06-6	Partial Carcass	< 0.000460	0.000460	< 0.000122	0.000122
BDE# 190						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-1	Partial Carcass	0.00210	0.000417	0.000500	0.0000990
	4-08-2	Partial Carcass	0.00156	0.000378	0.000400	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970
	4-08-4	Partial Carcass	0.000750	0.000377	0.000200	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960
	7-06-1	Partial Carcass	< 0.000373	0.000373	< 0.0000970	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990
	7-06-4	Partial Carcass	< 0.000307	0.000307	< 0.0000950	0.0000950
	7-06-5	Partial Carcass	< 0.000343	0.000343	< 0.0000960	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 194						
	4-08-1	Partial Carcass	< 0.000417	0.000417	< 0.0000990	0.0000990
	4-08-2	Partial Carcass	< 0.000378	0.000378	< 0.0000970	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970
	4-08-4	Partial Carcass	< 0.000377	0.000377	< 0.000101	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960
	7-06-1	Partial Carcass	< 0.000373	0.000373	< 0.0000970	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990
	7-06-4	Partial Carcass	< 0.000307	0.000307	< 0.0000950	0.0000950
	7-06-5	Partial Carcass	< 0.000343	0.000343	< 0.0000960	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 195						
	4-08-1	Partial Carcass	< 0.000417	0.000417	< 0.0000990	0.0000990
	4-08-2	Partial Carcass	< 0.000378	0.000378	< 0.0000970	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970
	4-08-4	Partial Carcass	< 0.000377	0.000377	< 0.000101	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-1	Partial Carcass	< 0.000373	0.000373	< 0.0000970	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990
	7-06-4	Partial Carcass	< 0.000307	0.000307	< 0.0000950	0.0000950
	7-06-5	Partial Carcass	< 0.000343	0.000343	< 0.0000960	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 196						
	4-08-1	Partial Carcass	< 0.000417	0.000417	< 0.0000990	0.0000990
	4-08-2	Partial Carcass	< 0.000378	0.000378	< 0.0000970	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970
	4-08-4	Partial Carcass	< 0.000377	0.000377	< 0.000101	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960
	7-06-1	Partial Carcass	< 0.000373	0.000373	< 0.0000970	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990
	7-06-4	Partial Carcass	< 0.000307	0.000307	< 0.0000950	0.0000950
	7-06-5	Partial Carcass	< 0.000343	0.000343	< 0.0000960	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 197						
	4-08-1	Partial Carcass	< 0.000417	0.000417	< 0.0000990	0.0000990
	4-08-2	Partial Carcass	< 0.000378	0.000378	< 0.0000970	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970
	4-08-4	Partial Carcass	< 0.000377	0.000377	< 0.000101	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960
	7-06-1	Partial Carcass	< 0.000373	0.000373	< 0.0000970	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990
	7-06-4	Partial Carcass	< 0.000307	0.000307	< 0.0000950	0.0000950
	7-06-5	Partial Carcass	< 0.000343	0.000343	< 0.0000960	0.0000960

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 198/199/203/200						
	4-08-1	Partial Carcass	< 0.000417	0.000417	< 0.0000990	0.0000990
	4-08-2	Partial Carcass	< 0.000378	0.000378	< 0.0000970	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970
	4-08-4	Partial Carcass	< 0.000377	0.000377	< 0.000101	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960
	7-06-1	Partial Carcass	< 0.000373	0.000373	< 0.0000970	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990
	7-06-4	Partial Carcass	< 0.000307	0.000307	< 0.0000950	0.0000950
	7-06-5	Partial Carcass	< 0.000343	0.000343	< 0.0000960	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 2						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 201						
	4-08-1	Partial Carcass	< 0.000417	0.000417	< 0.0000990	0.0000990
	4-08-2	Partial Carcass	< 0.000378	0.000378	< 0.0000970	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-4	Partial Carcass	< 0.000377	0.000377	< 0.000101	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960
	7-06-1	Partial Carcass	< 0.000373	0.000373	< 0.0000970	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990
	7-06-4	Partial Carcass	< 0.000307	0.000307	< 0.0000950	0.0000950
	7-06-5	Partial Carcass	< 0.000343	0.000343	< 0.0000960	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 202						
	4-08-1	Partial Carcass	< 0.000417	0.000417	< 0.0000990	0.0000990
	4-08-2	Partial Carcass	< 0.000378	0.000378	< 0.0000970	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970
	4-08-4	Partial Carcass	< 0.000377	0.000377	< 0.000101	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960
	7-06-1	Partial Carcass	< 0.000373	0.000373	< 0.0000970	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990
	7-06-4	Partial Carcass	< 0.000307	0.000307	< 0.0000950	0.0000950
	7-06-5	Partial Carcass	< 0.000343	0.000343	< 0.0000960	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 204						
	4-08-1	Partial Carcass	< 0.000417	0.000417	< 0.0000990	0.0000990
	4-08-2	Partial Carcass	< 0.000378	0.000378	< 0.0000970	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970
	4-08-4	Partial Carcass	< 0.000377	0.000377	< 0.000101	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960
	7-06-1	Partial Carcass	< 0.000373	0.000373	< 0.0000970	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-4	Partial Carcass	< 0.000307	0.000307	< 0.0000950	0.0000950
	7-06-5	Partial Carcass	< 0.000343	0.000343	< 0.0000960	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 205						
	4-08-1	Partial Carcass	0.00210	0.000417	0.000500	0.0000990
	4-08-2	Partial Carcass	0.00194	0.000378	0.000500	0.0000970
	4-08-3	Partial Carcass	0.00145	0.000353	0.000400	0.0000970
	4-08-4	Partial Carcass	0.00225	0.000377	0.000600	0.000101
	4-08-6	Partial Carcass	0.00277	0.000382	0.000700	0.0000960
	7-06-1	Partial Carcass	0.00153	0.000373	0.000400	0.0000970
	7-06-2	Partial Carcass	0.00193	0.000379	0.000500	0.0000980
	7-06-3	Partial Carcass	0.00233	0.000385	0.000600	0.0000990
	7-06-4	Partial Carcass	0.00129	0.000307	0.000400	0.0000950
	7-06-5	Partial Carcass	0.00179	0.000343	0.000500	0.0000960
	7-06-6	Partial Carcass	0.00188	0.000349	0.000500	0.0000920
BDE# 206						
	4-08-1	Partial Carcass	0.00294	0.000417	0.000700	0.0000990
	4-08-2	Partial Carcass	0.00233	0.000378	0.000600	0.0000970
	4-08-3	Partial Carcass	< 0.000353	0.000353	< 0.0000970	0.0000970
	4-08-4	Partial Carcass	0.00225	0.000377	0.000600	0.000101
	4-08-6	Partial Carcass	< 0.000382	0.000382	< 0.0000960	0.0000960
	7-06-1	Partial Carcass	0.00230	0.000373	0.000600	0.0000970
	7-06-2	Partial Carcass	< 0.000379	0.000379	< 0.0000980	0.0000980
	7-06-3	Partial Carcass	< 0.000385	0.000385	< 0.0000990	0.0000990
	7-06-4	Partial Carcass	0.00129	0.000307	0.000400	0.0000950
	7-06-5	Partial Carcass	0.00179	0.000343	0.000500	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 207						
	4-08-1	Partial Carcass	0.00336	0.000417	0.000800	0.0000990

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-2	Partial Carcass	0.00311	0.000378	0.000800	0.0000970
	4-08-3	Partial Carcass	0.00254	0.000353	0.000700	0.0000970
	4-08-4	Partial Carcass	0.00262	0.000377	0.000700	0.000101
	4-08-6	Partial Carcass	0.00356	0.000382	0.000900	0.0000960
	7-06-1	Partial Carcass	0.00268	0.000373	0.000700	0.0000970
	7-06-2	Partial Carcass	0.00270	0.000379	0.000700	0.0000980
	7-06-3	Partial Carcass	0.00233	0.000385	0.000600	0.0000990
	7-06-4	Partial Carcass	0.00161	0.000307	0.000500	0.0000950
	7-06-5	Partial Carcass	0.00287	0.000343	0.000800	0.0000960
	7-06-6	Partial Carcass	0.00226	0.000349	0.000600	0.0000920
BDE# 208						
	4-08-1	Partial Carcass	< 0.000417	0.000417	< 0.0000990	0.0000990
	4-08-2	Partial Carcass	0.00156	0.000378	0.000400	0.0000970
	4-08-3	Partial Carcass	0.00181	0.000353	0.000500	0.0000970
	4-08-4	Partial Carcass	0.00150	0.000377	0.000400	0.000101
	4-08-6	Partial Carcass	0.00238	0.000382	0.000600	0.0000960
	7-06-1	Partial Carcass	0.00153	0.000373	0.000400	0.0000970
	7-06-2	Partial Carcass	0.00116	0.000379	0.000300	0.0000980
	7-06-3	Partial Carcass	0.00194	0.000385	0.000500	0.0000990
	7-06-4	Partial Carcass	0.000968	0.000307	0.000300	0.0000950
	7-06-5	Partial Carcass	0.00143	0.000343	0.000400	0.0000960
	7-06-6	Partial Carcass	< 0.000349	0.000349	< 0.0000920	0.0000920
BDE# 209						
	4-08-1	Partial Carcass	< 0.00619	0.00619	< 0.00147	0.00147
	4-08-2	Partial Carcass	< 0.00562	0.00562	< 0.00144	0.00144
	4-08-3	Partial Carcass	< 0.00525	0.00525	< 0.00145	0.00145
	4-08-4	Partial Carcass	< 0.00560	0.00560	< 0.00149	0.00149
	4-08-6	Partial Carcass	< 0.00567	0.00567	< 0.00143	0.00143
	7-06-1	Partial Carcass	< 0.00554	0.00554	< 0.00145	0.00145

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-2	Partial Carcass	< 0.00563	0.00563	< 0.00146	0.00146
	7-06-3	Partial Carcass	< 0.00572	0.00572	< 0.00147	0.00147
	7-06-4	Partial Carcass	< 0.00455	0.00455	< 0.00141	0.00141
	7-06-5	Partial Carcass	< 0.00510	0.00510	< 0.00142	0.00142
	7-06-6	Partial Carcass	< 0.00518	0.00518	< 0.00137	0.00137
BDE# 25						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	0.000645	0.000553	0.000200	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 28						
	4-08-1	Partial Carcass	0.00126	0.000805	0.000300	0.000192
	4-08-2	Partial Carcass	0.00350	0.000731	0.000900	0.000188
	4-08-3	Partial Carcass	0.00616	0.000683	0.00170	0.000188
	4-08-4	Partial Carcass	0.00937	0.000729	0.00250	0.000194
	4-08-6	Partial Carcass	0.00238	0.000738	0.000600	0.000186
	7-06-1	Partial Carcass	0.0103	0.000721	0.00270	0.000188
	7-06-2	Partial Carcass	0.00850	0.000733	0.00220	0.000190
	7-06-3	Partial Carcass	0.0198	0.000744	0.00510	0.000192
	7-06-4	Partial Carcass	0.0274	0.000593	0.00850	0.000184
	7-06-5	Partial Carcass	0.0129	0.000663	0.00360	0.000185
	7-06-6	Partial Carcass	0.00792	0.000674	0.00210	0.000179

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
BDE# 3						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	0.00218	0.000638	0.000600	0.000176
	4-08-4	Partial Carcass	0.00262	0.000681	0.000700	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	0.0128	0.000695	0.00330	0.000179
	7-06-4	Partial Carcass	0.00516	0.000553	0.00160	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 30						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 32						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 33						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 35						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 37						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	0.000776	0.000695	0.000200	0.000179
	7-06-4	Partial Carcass	0.00161	0.000553	0.000500	0.000172
	7-06-5	Partial Carcass	0.00108	0.000620	0.000300	0.000173
	7-06-6	Partial Carcass	0.00188	0.000629	0.000500	0.000167
BDE# 47						
	4-08-1	Partial Carcass	0.0252	0.000876	0.00600	0.000209
	4-08-2	Partial Carcass	0.0856	0.000796	0.0220	0.000205
	4-08-3	Partial Carcass	0.272	0.000743	0.0751	0.000205
	4-08-4	Partial Carcass	0.484	0.000793	0.129	0.000212
	4-08-6	Partial Carcass	0.105	0.000803	0.0266	0.000203
	7-06-1	Partial Carcass	0.186	0.000784	0.0487	0.000205
	7-06-2	Partial Carcass	0.195	0.000798	0.0506	0.000207
	7-06-3	Partial Carcass	1.03	0.000809	0.266	0.000209
	7-06-4	Partial Carcass	1.24	0.000645	0.385	0.000200
	7-06-5	Partial Carcass	0.455	0.000722	0.127	0.000201
	7-06-6	Partial Carcass	0.265	0.000733	0.0704	0.000194
BDE# 49/71						
	4-08-1	Partial Carcass	< 0.000644	0.000644	< 0.000153	0.000153
	4-08-2	Partial Carcass	0.00350	0.000585	0.000900	0.000150

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-3	Partial Carcass	0.00725	0.000546	0.00200	0.000151
	4-08-4	Partial Carcass	0.0120	0.000583	0.00320	0.000155
	4-08-6	Partial Carcass	0.00396	0.000590	0.00100	0.000149
	7-06-1	Partial Carcass	0.00765	0.000576	0.00200	0.000151
	7-06-2	Partial Carcass	0.00811	0.000586	0.00210	0.000152
	7-06-3	Partial Carcass	0.0221	0.000595	0.00570	0.000153
	7-06-4	Partial Carcass	0.0403	0.000474	0.0125	0.000147
	7-06-5	Partial Carcass	0.0233	0.000530	0.00650	0.000148
	7-06-6	Partial Carcass	0.0151	0.000539	0.00400	0.000143
BDE# 66						
	4-08-1	Partial Carcass	< 0.000481	0.000481	< 0.000114	0.000114
	4-08-2	Partial Carcass	< 0.000436	0.000436	< 0.000112	0.000112
	4-08-3	Partial Carcass	< 0.000408	0.000408	< 0.000112	0.000112
	4-08-4	Partial Carcass	< 0.000435	0.000435	< 0.000116	0.000116
	4-08-6	Partial Carcass	< 0.000440	0.000440	< 0.000111	0.000111
	7-06-1	Partial Carcass	< 0.000430	0.000430	< 0.000112	0.000112
	7-06-2	Partial Carcass	< 0.000438	0.000438	< 0.000113	0.000113
	7-06-3	Partial Carcass	< 0.000444	0.000444	< 0.000114	0.000114
	7-06-4	Partial Carcass	< 0.000354	0.000354	< 0.000110	0.000110
	7-06-5	Partial Carcass	< 0.000396	0.000396	< 0.000111	0.000111
	7-06-6	Partial Carcass	< 0.000402	0.000402	< 0.000107	0.000107
BDE# 7						
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 75						
	4-08-1	Partial Carcass	< 0.000876	0.000876	< 0.000209	0.000209
	4-08-2	Partial Carcass	< 0.000796	0.000796	< 0.000205	0.000205
	4-08-3	Partial Carcass	< 0.000743	0.000743	< 0.000205	0.000205
	4-08-4	Partial Carcass	< 0.000793	0.000793	< 0.000212	0.000212
	4-08-6	Partial Carcass	< 0.000803	0.000803	< 0.000203	0.000203
	7-06-1	Partial Carcass	< 0.000784	0.000784	< 0.000205	0.000205
	7-06-2	Partial Carcass	< 0.000798	0.000798	< 0.000207	0.000207
	7-06-3	Partial Carcass	< 0.000809	0.000809	< 0.000209	0.000209
	7-06-4	Partial Carcass	< 0.000645	0.000645	< 0.000200	0.000200
	7-06-5	Partial Carcass	0.00143	0.000722	0.000400	0.000201
	7-06-6	Partial Carcass	< 0.000733	0.000733	< 0.000194	0.000194
BDE# 77						
	4-08-1	Partial Carcass	< 0.000876	0.000876	< 0.000209	0.000209
	4-08-2	Partial Carcass	0.00117	0.000796	0.000300	0.000205
	4-08-3	Partial Carcass	< 0.000743	0.000743	< 0.000205	0.000205
	4-08-4	Partial Carcass	0.00188	0.000793	0.000500	0.000212
	4-08-6	Partial Carcass	< 0.000803	0.000803	< 0.000203	0.000203
	7-06-1	Partial Carcass	0.00153	0.000784	0.000400	0.000205
	7-06-2	Partial Carcass	0.00270	0.000798	0.000700	0.000207
	7-06-3	Partial Carcass	< 0.000809	0.000809	< 0.000209	0.000209
	7-06-4	Partial Carcass	< 0.000645	0.000645	< 0.000200	0.000200
	7-06-5	Partial Carcass	< 0.000722	0.000722	< 0.000201	0.000201
	7-06-6	Partial Carcass	0.00377	0.000733	0.00100	0.000194
BDE# 8						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-1	Partial Carcass	< 0.000752	0.000752	< 0.000179	0.000179
	4-08-2	Partial Carcass	< 0.000683	0.000683	< 0.000176	0.000176
	4-08-3	Partial Carcass	< 0.000638	0.000638	< 0.000176	0.000176
	4-08-4	Partial Carcass	< 0.000681	0.000681	< 0.000182	0.000182
	4-08-6	Partial Carcass	< 0.000689	0.000689	< 0.000174	0.000174
	7-06-1	Partial Carcass	< 0.000673	0.000673	< 0.000176	0.000176
	7-06-2	Partial Carcass	< 0.000685	0.000685	< 0.000177	0.000177
	7-06-3	Partial Carcass	< 0.000695	0.000695	< 0.000179	0.000179
	7-06-4	Partial Carcass	< 0.000553	0.000553	< 0.000172	0.000172
	7-06-5	Partial Carcass	< 0.000620	0.000620	< 0.000173	0.000173
	7-06-6	Partial Carcass	< 0.000629	0.000629	< 0.000167	0.000167
BDE# 85						
	4-08-1	Partial Carcass	< 0.00164	0.00164	< 0.000391	0.000391
	4-08-2	Partial Carcass	< 0.00149	0.00149	< 0.000383	0.000383
	4-08-3	Partial Carcass	< 0.00139	0.00139	< 0.000384	0.000384
	4-08-4	Partial Carcass	0.00150	0.00148	0.000400	0.000396
	4-08-6	Partial Carcass	< 0.00150	0.00150	< 0.000380	0.000380
	7-06-1	Partial Carcass	< 0.00147	0.00147	< 0.000384	0.000384
	7-06-2	Partial Carcass	< 0.00149	0.00149	< 0.000387	0.000387
	7-06-3	Partial Carcass	0.00194	0.00152	0.000500	0.000391
	7-06-4	Partial Carcass	0.00355	0.00121	0.00110	0.000374
	7-06-5	Partial Carcass	< 0.00135	0.00135	< 0.000377	0.000377
	7-06-6	Partial Carcass	< 0.00137	0.00137	< 0.000364	0.000364
BDE# 99						
	4-08-1	Partial Carcass	< 0.000797	0.000797	< 0.000190	0.000190
	4-08-2	Partial Carcass	< 0.000724	0.000724	< 0.000186	0.000186
	4-08-3	Partial Carcass	< 0.000676	0.000676	< 0.000186	0.000186
	4-08-4	Partial Carcass	< 0.000722	0.000722	< 0.000192	0.000192
	4-08-6	Partial Carcass	< 0.000730	0.000730	< 0.000184	0.000184

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	7-06-1	Partial Carcass	< 0.000713	0.000713	< 0.000186	0.000186
	7-06-2	Partial Carcass	< 0.000726	0.000726	< 0.000188	0.000188
	7-06-3	Partial Carcass	< 0.000736	0.000736	< 0.000190	0.000190
	7-06-4	Partial Carcass	< 0.000587	0.000587	< 0.000182	0.000182
	7-06-5	Partial Carcass	< 0.000657	0.000657	< 0.000183	0.000183
	7-06-6	Partial Carcass	< 0.000667	0.000667	< 0.000177	0.000177
BDE-TOTAL						
	4-08-1	Partial Carcass	0.0462	0.00729	0.0110	0.00174
	4-08-2	Partial Carcass	0.123	0.00662	0.0315	0.00170
	4-08-3	Partial Carcass	0.343	0.00618	0.0946	0.00171
	4-08-4	Partial Carcass	0.614	0.00660	0.164	0.00176
	4-08-6	Partial Carcass	0.141	0.00668	0.0357	0.00169
	7-06-1	Partial Carcass	0.246	0.00653	0.0643	0.00171
	7-06-2	Partial Carcass	0.258	0.00664	0.0667	0.00172
	7-06-3	Partial Carcass	1.25	0.00674	0.323	0.00174
	7-06-4	Partial Carcass	1.54	0.00537	0.477	0.00166
	7-06-5	Partial Carcass	0.582	0.00601	0.162	0.00168
	7-06-6	Partial Carcass	0.348	0.00610	0.0924	0.00162
BHC (Total)						
	*10-06-1	Partial Carcass	< 0.00135	0.00135	< 0.000359	0.000359
	*10-06-2	Partial Carcass	< 0.00141	0.00141	< 0.000359	0.000359
	*10-06-3	Partial Carcass	< 0.00120	0.00120	< 0.000359	0.000359
	*10-06-4	Partial Carcass	< 0.00125	0.00125	< 0.000359	0.000359
	*10-06-5	Partial Carcass	< 0.00120	0.00120	< 0.000359	0.000359
	*10-07-1	Partial Carcass	< 0.00127	0.00127	< 0.000359	0.000359
	*10-07-2	Partial Carcass	< 0.00126	0.00126	< 0.000359	0.000359
	*10-07-3	Partial Carcass	0.00900	0.00122	0.00264	0.000359
	*10-07-4	Partial Carcass	< 0.00152	0.00152	< 0.000359	0.000359
	*10-07-5	Partial Carcass	< 0.00136	0.00136	< 0.000359	0.000359

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-6	Partial Carcass	< 0.00141	0.00141	< 0.000359	0.000359
	*4-08-6	Partial Carcass	< 0.00142	0.00142	< 0.000359	0.000359
Benzo(a)anthracene						
	1-08-1	Partial Carcass	< 0.00160	0.00160	< 0.000378	0.000378
	1-08-2	Partial Carcass	< 0.00143	0.00143	< 0.000374	0.000374
	1-08-3	Partial Carcass	< 0.00137	0.00137	< 0.000374	0.000374
	1-08-4	Partial Carcass	< 0.00145	0.00145	< 0.000377	0.000377
	1-08-6	Partial Carcass	< 0.00138	0.00138	< 0.000367	0.000367
C1-Fluoranthenes & Pyrenes						
	1-08-1	Partial Carcass	< 0.00541	0.00541	< 0.00128	0.00128
	1-08-2	Partial Carcass	< 0.00483	0.00483	< 0.00127	0.00127
	1-08-3	Partial Carcass	< 0.00464	0.00464	< 0.00127	0.00127
	1-08-4	Partial Carcass	< 0.00492	0.00492	< 0.00128	0.00128
	1-08-6	Partial Carcass	< 0.00466	0.00466	< 0.00124	0.00124
C1-Phenanthrenes & Anthracenes						
	1-08-1	Partial Carcass	< 0.00252	0.00252	< 0.000597	0.000597
	1-08-2	Partial Carcass	0.0302	0.00226	0.00790	0.000591
	1-08-3	Partial Carcass	0.00950	0.00216	0.00260	0.000592
	1-08-4	Partial Carcass	< 0.00230	0.00230	< 0.000596	0.000596
	1-08-6	Partial Carcass	0.0199	0.00218	0.00530	0.000581
C1-chrysenes						
	1-08-1	Partial Carcass	< 0.00397	0.00397	< 0.000938	0.000938
	1-08-2	Partial Carcass	< 0.00354	0.00354	< 0.000928	0.000928
	1-08-3	Partial Carcass	< 0.00340	0.00340	< 0.000930	0.000930
	1-08-4	Partial Carcass	< 0.00361	0.00361	< 0.000936	0.000936
	1-08-6	Partial Carcass	< 0.00342	0.00342	< 0.000912	0.000912
C1-dibenzothiophenes						
	1-08-1	Partial Carcass	< 0.00288	0.00288	< 0.000682	0.000682
	1-08-2	Partial Carcass	< 0.00258	0.00258	< 0.000675	0.000675

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-3	Partial Carcass	0.0113	0.00247	0.00310	0.000677
	1-08-4	Partial Carcass	0.0158	0.00262	0.00410	0.000681
	1-08-6	Partial Carcass	0.00600	0.00249	0.00160	0.000664
C1-fluorenes						
	1-08-1	Partial Carcass	0.00719	0.00350	0.00170	0.000828
	1-08-2	Partial Carcass	0.00993	0.00313	0.00260	0.000820
	1-08-3	Partial Carcass	< 0.00300	0.00300	< 0.000821	0.000821
	1-08-4	Partial Carcass	< 0.00319	0.00319	< 0.000826	0.000826
	1-08-6	Partial Carcass	< 0.00302	0.00302	< 0.000806	0.000806
C1-naphthalenes						
	1-08-1	Partial Carcass	0.0212	0.00664	0.00500	0.00157
	1-08-2	Partial Carcass	0.0260	0.00594	0.00680	0.00156
	1-08-3	Partial Carcass	0.0219	0.00570	0.00600	0.00156
	1-08-4	Partial Carcass	0.0231	0.00605	0.00600	0.00157
	1-08-6	Partial Carcass	0.0142	0.00573	0.00380	0.00153
C2-Phenanthrenes & Anthracenes						
	1-08-1	Partial Carcass	< 0.00252	0.00252	< 0.000597	0.000597
	1-08-2	Partial Carcass	< 0.00226	0.00226	< 0.000591	0.000591
	1-08-3	Partial Carcass	< 0.00216	0.00216	< 0.000592	0.000592
	1-08-4	Partial Carcass	< 0.00230	0.00230	< 0.000596	0.000596
	1-08-6	Partial Carcass	< 0.00218	0.00218	< 0.000581	0.000581
C2-chrysenes						
	1-08-1	Partial Carcass	< 0.00397	0.00397	< 0.000938	0.000938
	1-08-2	Partial Carcass	< 0.00354	0.00354	< 0.000928	0.000928
	1-08-3	Partial Carcass	< 0.00340	0.00340	< 0.000930	0.000930
	1-08-4	Partial Carcass	< 0.00361	0.00361	< 0.000936	0.000936
	1-08-6	Partial Carcass	< 0.00342	0.00342	< 0.000912	0.000912
C2-dibenzothiophenes						
	1-08-1	Partial Carcass	< 0.00288	0.00288	< 0.000682	0.000682

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-2	Partial Carcass	< 0.00258	0.00258	< 0.000675	0.000675
	1-08-3	Partial Carcass	< 0.00247	0.00247	< 0.000677	0.000677
	1-08-4	Partial Carcass	< 0.00262	0.00262	< 0.000681	0.000681
	1-08-6	Partial Carcass	< 0.00249	0.00249	< 0.000664	0.000664
C2-fluorenes						
	1-08-1	Partial Carcass	< 0.00350	0.00350	< 0.000828	0.000828
	1-08-2	Partial Carcass	< 0.00313	0.00313	< 0.000820	0.000820
	1-08-3	Partial Carcass	< 0.00300	0.00300	< 0.000821	0.000821
	1-08-4	Partial Carcass	< 0.00319	0.00319	< 0.000826	0.000826
	1-08-6	Partial Carcass	< 0.00302	0.00302	< 0.000806	0.000806
C2-naphthalenes						
	1-08-1	Partial Carcass	0.00973	0.00845	0.00230	0.00200
	1-08-2	Partial Carcass	0.0141	0.00755	0.00370	0.00198
	1-08-3	Partial Carcass	0.0139	0.00724	0.00380	0.00198
	1-08-4	Partial Carcass	0.0139	0.00769	0.00360	0.00199
	1-08-6	Partial Carcass	0.0101	0.00729	0.00270	0.00194
C3-Phenanthrenes & Anthracenes						
	1-08-1	Partial Carcass	< 0.00252	0.00252	< 0.000597	0.000597
	1-08-2	Partial Carcass	< 0.00226	0.00226	< 0.000591	0.000591
	1-08-3	Partial Carcass	< 0.00216	0.00216	< 0.000592	0.000592
	1-08-4	Partial Carcass	< 0.00230	0.00230	< 0.000596	0.000596
	1-08-6	Partial Carcass	< 0.00218	0.00218	< 0.000581	0.000581
C3-chrysenes						
	1-08-1	Partial Carcass	< 0.00397	0.00397	< 0.000938	0.000938
	1-08-2	Partial Carcass	< 0.00354	0.00354	< 0.000928	0.000928
	1-08-3	Partial Carcass	< 0.00340	0.00340	< 0.000930	0.000930
	1-08-4	Partial Carcass	< 0.00361	0.00361	< 0.000936	0.000936
	1-08-6	Partial Carcass	< 0.00342	0.00342	< 0.000912	0.000912
C3-dibenzothiophenes						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-1	Partial Carcass	< 0.00288	0.00288	< 0.000682	0.000682
	1-08-2	Partial Carcass	< 0.00258	0.00258	< 0.000675	0.000675
	1-08-3	Partial Carcass	< 0.00247	0.00247	< 0.000677	0.000677
	1-08-4	Partial Carcass	< 0.00262	0.00262	< 0.000681	0.000681
	1-08-6	Partial Carcass	< 0.00249	0.00249	< 0.000664	0.000664
C3-fluorenes						
	1-08-1	Partial Carcass	< 0.00350	0.00350	< 0.000828	0.000828
	1-08-2	Partial Carcass	< 0.00313	0.00313	< 0.000820	0.000820
	1-08-3	Partial Carcass	< 0.00300	0.00300	< 0.000821	0.000821
	1-08-4	Partial Carcass	< 0.00319	0.00319	< 0.000826	0.000826
	1-08-6	Partial Carcass	< 0.00302	0.00302	< 0.000806	0.000806
C3-naphthalenes						
	1-08-1	Partial Carcass	< 0.00845	0.00845	< 0.00200	0.00200
	1-08-2	Partial Carcass	< 0.00755	0.00755	< 0.00198	0.00198
	1-08-3	Partial Carcass	0.00950	0.00724	0.00260	0.00198
	1-08-4	Partial Carcass	0.0112	0.00769	0.00290	0.00199
	1-08-6	Partial Carcass	< 0.00729	0.00729	< 0.00194	0.00194
C4-Phenanthrenes & Anthracenes						
	1-08-1	Partial Carcass	< 0.00252	0.00252	< 0.000597	0.000597
	1-08-2	Partial Carcass	< 0.00226	0.00226	< 0.000591	0.000591
	1-08-3	Partial Carcass	< 0.00216	0.00216	< 0.000592	0.000592
	1-08-4	Partial Carcass	< 0.00230	0.00230	< 0.000596	0.000596
	1-08-6	Partial Carcass	< 0.00218	0.00218	< 0.000581	0.000581
C4-chrysenes						
	1-08-1	Partial Carcass	< 0.00397	0.00397	< 0.000938	0.000938
	1-08-2	Partial Carcass	< 0.00354	0.00354	< 0.000928	0.000928
	1-08-3	Partial Carcass	< 0.00340	0.00340	< 0.000930	0.000930
	1-08-4	Partial Carcass	< 0.00361	0.00361	< 0.000936	0.000936
	1-08-6	Partial Carcass	< 0.00342	0.00342	< 0.000912	0.000912

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
C4-naphthalenes						
	1-08-1	Partial Carcass	< 0.00845	0.00845	< 0.00200	0.00200
	1-08-2	Partial Carcass	< 0.00755	0.00755	< 0.00198	0.00198
	1-08-3	Partial Carcass	< 0.00724	0.00724	< 0.00198	0.00198
	1-08-4	Partial Carcass	< 0.00769	0.00769	< 0.00199	0.00199
	1-08-6	Partial Carcass	< 0.00729	0.00729	< 0.00194	0.00194
Cl4-PCDD						
	10-06-1	Partial Carcass	< 0.00000686	0.00000686	< 0.00000183	0.00000183
	10-06-2	Partial Carcass	< 0.00000743	0.00000743	< 0.00000189	0.00000189
	10-06-3	Partial Carcass	< 0.00000653	0.00000653	< 0.00000196	0.00000196
	10-06-4	Partial Carcass	< 0.00000690	0.00000690	< 0.00000198	0.00000198
	10-07-1	Partial Carcass	< 0.00000702	0.00000702	< 0.00000199	0.00000199
	10-07-2	Partial Carcass	< 0.00000690	0.00000690	< 0.00000197	0.00000197
	10-07-3	Partial Carcass	< 0.00000664	0.00000664	< 0.00000195	0.00000195
	10-07-4	Partial Carcass	< 0.00000797	0.00000797	< 0.00000188	0.00000188
Cl4-PCDF						
	10-06-1	Partial Carcass	< 0.00000686	0.00000686	< 0.00000183	0.00000183
	10-06-2	Partial Carcass	< 0.00000743	0.00000743	< 0.00000189	0.00000189
	10-06-3	Partial Carcass	< 0.00000653	0.00000653	< 0.00000196	0.00000196
	10-06-4	Partial Carcass	< 0.00000690	0.00000690	< 0.00000198	0.00000198
	10-07-1	Partial Carcass	< 0.00000702	0.00000702	< 0.00000199	0.00000199
	10-07-2	Partial Carcass	< 0.00000690	0.00000690	< 0.00000197	0.00000197
	10-07-3	Partial Carcass	< 0.00000664	0.00000664	< 0.00000195	0.00000195
	10-07-4	Partial Carcass	< 0.00000797	0.00000797	< 0.00000188	0.00000188
Cl5-PCDD						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
Cl5-PCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
Cl6-PCDD						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
Cl6-PCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
Cl7-PCDD						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
Cl7-PCDF						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
DDMU						
	*10-06-1	Partial Carcass	0.00264	0.000481	0.000703	0.000128
	*10-06-2	Partial Carcass	0.00168	0.000504	0.000427	0.000128
	*10-06-3	Partial Carcass	0.00213	0.000428	0.000638	0.000128
	*10-06-4	Partial Carcass	0.00263	0.000447	0.000754	0.000128
	*10-06-5	Partial Carcass	0.000735	0.000426	0.000221	0.000128
	*10-07-1	Partial Carcass	< 0.000453	0.000453	< 0.000128	0.000128
	*10-07-2	Partial Carcass	< 0.000449	0.000449	< 0.000128	0.000128
	*10-07-3	Partial Carcass	< 0.000437	0.000437	< 0.000128	0.000128

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-4	Partial Carcass	0.00258	0.000544	0.000609	0.000128
	*10-07-5	Partial Carcass	0.00129	0.000487	0.000340	0.000128
	*10-07-6	Partial Carcass	0.00425	0.000502	0.00108	0.000128
	*4-08-6	Partial Carcass	0.00253	0.000508	0.000639	0.000128
Dibenz(a,h)anthracene						
	1-08-1	Partial Carcass	< 0.00180	0.00180	< 0.000426	0.000426
	1-08-2	Partial Carcass	< 0.00161	0.00161	< 0.000422	0.000422
	1-08-3	Partial Carcass	< 0.00154	0.00154	< 0.000423	0.000423
	1-08-4	Partial Carcass	< 0.00164	0.00164	< 0.000425	0.000425
	1-08-6	Partial Carcass	< 0.00156	0.00156	< 0.000415	0.000415
HCB						
	*10-06-1	Partial Carcass	0.00220	0.000846	0.000586	0.000226
	*10-06-2	Partial Carcass	0.000988	0.000887	0.000251	0.000226
	*10-06-3	Partial Carcass	0.00238	0.000752	0.000714	0.000226
	*10-06-4	Partial Carcass	0.00154	0.000786	0.000442	0.000226
	*10-06-5	Partial Carcass	0.00132	0.000750	0.000398	0.000226
	*10-07-1	Partial Carcass	< 0.000796	0.000796	< 0.000226	0.000226
	*10-07-2	Partial Carcass	0.00102	0.000789	0.000290	0.000226
	*10-07-3	Partial Carcass	0.00274	0.000768	0.000805	0.000226
	*10-07-4	Partial Carcass	0.00154	0.000957	0.000363	0.000226
	*10-07-5	Partial Carcass	< 0.000857	0.000857	< 0.000226	0.000226
	*10-07-6	Partial Carcass	0.00121	0.000883	0.000308	0.000226
	*4-08-6	Partial Carcass	0.00155	0.000893	0.000391	0.000226
Heptachlor						
	*10-06-1	Partial Carcass	< 0.000498	0.000498	< 0.000133	0.000133
	*10-06-2	Partial Carcass	< 0.000522	0.000522	< 0.000133	0.000133
	*10-06-3	Partial Carcass	< 0.000443	0.000443	< 0.000133	0.000133
	*10-06-4	Partial Carcass	< 0.000463	0.000463	< 0.000133	0.000133
	*10-06-5	Partial Carcass	< 0.000442	0.000442	< 0.000133	0.000133

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-1	Partial Carcass	< 0.000469	0.000469	< 0.000133	0.000133
	*10-07-2	Partial Carcass	< 0.000465	0.000465	< 0.000133	0.000133
	*10-07-3	Partial Carcass	< 0.000452	0.000452	< 0.000133	0.000133
	*10-07-4	Partial Carcass	< 0.000563	0.000563	< 0.000133	0.000133
	*10-07-5	Partial Carcass	< 0.000505	0.000505	< 0.000133	0.000133
	*10-07-6	Partial Carcass	< 0.000520	0.000520	< 0.000133	0.000133
	*4-08-6	Partial Carcass	< 0.000526	0.000526	< 0.000133	0.000133
OCDD						
	10-06-1	Partial Carcass	< 0.0000686	0.0000686	< 0.0000183	0.0000183
	10-06-2	Partial Carcass	< 0.0000743	0.0000743	< 0.0000189	0.0000189
	10-06-3	Partial Carcass	< 0.0000653	0.0000653	< 0.0000196	0.0000196
	10-06-4	Partial Carcass	< 0.0000690	0.0000690	< 0.0000198	0.0000198
	10-07-1	Partial Carcass	< 0.0000702	0.0000702	< 0.0000199	0.0000199
	10-07-2	Partial Carcass	< 0.0000690	0.0000690	< 0.0000197	0.0000197
	10-07-3	Partial Carcass	< 0.0000664	0.0000664	< 0.0000195	0.0000195
	10-07-4	Partial Carcass	< 0.0000797	0.0000797	< 0.0000188	0.0000188
OCDF						
	10-06-1	Partial Carcass	< 0.0000686	0.0000686	< 0.0000183	0.0000183
	10-06-2	Partial Carcass	< 0.0000743	0.0000743	< 0.0000189	0.0000189
	10-06-3	Partial Carcass	< 0.0000653	0.0000653	< 0.0000196	0.0000196
	10-06-4	Partial Carcass	< 0.0000690	0.0000690	< 0.0000198	0.0000198
	10-07-1	Partial Carcass	< 0.0000702	0.0000702	< 0.0000199	0.0000199
	10-07-2	Partial Carcass	< 0.0000690	0.0000690	< 0.0000197	0.0000197
	10-07-3	Partial Carcass	< 0.0000664	0.0000664	< 0.0000195	0.0000195
	10-07-4	Partial Carcass	< 0.0000797	0.0000797	< 0.0000188	0.0000188
PCB# 1						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 10						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-06-5	Partial Carcass	< 0.0000271	0.0000271	< 0.00000815	0.00000815
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
	10-07-5	Partial Carcass	< 0.0000304	0.0000304	< 0.00000801	0.00000801
	10-07-6	Partial Carcass	< 0.0000304	0.0000304	< 0.00000777	0.00000777
	4-08-6	Partial Carcass	< 0.0000298	0.0000298	< 0.00000753	0.00000753
	06385810	Water			< 0.0000000649	0.0000000649
PCB# 103						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 104						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 105						
	10-06-1	Partial Carcass	0.000465	0.000138	0.000124	0.0000367
	10-06-2	Partial Carcass	0.000252	0.000148	0.0000642	0.0000377
	10-06-3	Partial Carcass	0.000373	0.000131	0.000112	0.0000392
	10-06-4	Partial Carcass	0.000676	0.000138	0.000194	0.0000395
	10-06-5	Partial Carcass	0.000416	0.000108	0.000125	0.0000326

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-1	Partial Carcass	0.000218	0.000140	0.0000617	0.0000398
	10-07-2	Partial Carcass	0.000431	0.000138	0.000123	0.0000393
	10-07-3	Partial Carcass	0.00214	0.000133	0.000628	0.0000390
	10-07-4	Partial Carcass	0.00151	0.000160	0.000355	0.0000377
	10-07-5	Partial Carcass	0.000483	0.000122	0.000127	0.0000320
	10-07-6	Partial Carcass	0.000205	0.000122	0.0000524	0.0000311
	4-08-6	Partial Carcass	0.000305	0.000119	0.0000770	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 106						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 107						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 108/124						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 11						
	10-06-1	Partial Carcass	0.00230	0.000138	0.000613	0.0000367
	10-06-2	Partial Carcass	0.00250	0.000148	0.000635	0.0000377
	10-06-3	Partial Carcass	0.00220	0.000131	0.000659	0.0000392
	10-06-4	Partial Carcass	0.00239	0.000138	0.000687	0.0000395
	10-06-5	Partial Carcass	0.00190	0.000108	0.000571	0.0000326
	10-07-1	Partial Carcass	0.00239	0.000140	0.000676	0.0000398
	10-07-2	Partial Carcass	0.00284	0.000138	0.000810	0.0000393

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-3	Partial Carcass	0.00247	0.000133	0.000725	0.0000390
	10-07-4	Partial Carcass	0.00277	0.000160	0.000653	0.0000377
	10-07-5	Partial Carcass	0.00248	0.000122	0.000652	0.0000320
	10-07-6	Partial Carcass	0.00233	0.000122	0.000594	0.0000311
	4-08-6	Partial Carcass	0.00209	0.000119	0.000527	0.0000301
	06385810	Water			0.00000330	0.000000260
PCB# 110/115						
	10-06-1	Partial Carcass	0.00129	0.000686	0.000344	0.000183
	10-06-2	Partial Carcass	0.00100	0.000743	0.000255	0.000189
	10-06-3	Partial Carcass	0.00145	0.000653	0.000434	0.000196
	10-06-4	Partial Carcass	0.00252	0.000690	0.000723	0.000198
	10-06-5	Partial Carcass	0.00141	0.000542	0.000423	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	0.00128	0.000690	0.000367	0.000197
	10-07-3	Partial Carcass	0.00664	0.000664	0.00195	0.000195
	10-07-4	Partial Carcass	0.00475	0.000797	0.00112	0.000188
	10-07-5	Partial Carcass	0.00168	0.000608	0.000441	0.000160
	10-07-6	Partial Carcass	0.000736	0.000607	0.000188	0.000155
	4-08-6	Partial Carcass	0.00120	0.000598	0.000303	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 111						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 112						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 114						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 117						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 118						
	10-06-1	Partial Carcass	0.00138	0.000344	0.000367	0.0000917
	10-06-2	Partial Carcass	0.000696	0.000371	0.000177	0.0000943
	10-06-3	Partial Carcass	0.00106	0.000327	0.000319	0.0000980
	10-06-4	Partial Carcass	0.00188	0.000344	0.000540	0.0000988
	10-06-5	Partial Carcass	0.00112	0.000271	0.000337	0.0000815
	10-07-1	Partial Carcass	0.000512	0.000351	0.000145	0.0000994
	10-07-2	Partial Carcass	0.00117	0.000344	0.000333	0.0000983
	10-07-3	Partial Carcass	0.00565	0.000332	0.00166	0.0000976
	10-07-4	Partial Carcass	0.00419	0.000399	0.000987	0.0000942
	10-07-5	Partial Carcass	0.00132	0.000304	0.000347	0.0000801

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-6	Partial Carcass	0.000572	0.000304	0.000146	0.0000777
	4-08-6	Partial Carcass	0.000931	0.000298	0.000235	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 12/13						
	10-06-1	Partial Carcass	< 0.0000686	0.0000686	< 0.0000183	0.0000183
	10-06-2	Partial Carcass	< 0.0000743	0.0000743	< 0.0000189	0.0000189
	10-06-3	Partial Carcass	< 0.0000653	0.0000653	< 0.0000196	0.0000196
	10-06-4	Partial Carcass	< 0.0000690	0.0000690	< 0.0000198	0.0000198
	10-06-5	Partial Carcass	< 0.0000542	0.0000542	< 0.0000163	0.0000163
	10-07-1	Partial Carcass	< 0.0000702	0.0000702	< 0.0000199	0.0000199
	10-07-2	Partial Carcass	< 0.0000690	0.0000690	< 0.0000197	0.0000197
	10-07-3	Partial Carcass	< 0.0000664	0.0000664	< 0.0000195	0.0000195
	10-07-4	Partial Carcass	< 0.0000797	0.0000797	< 0.0000188	0.0000188
	10-07-5	Partial Carcass	< 0.0000608	0.0000608	< 0.0000160	0.0000160
	10-07-6	Partial Carcass	< 0.0000607	0.0000607	< 0.0000155	0.0000155
	4-08-6	Partial Carcass	< 0.0000598	0.0000598	< 0.0000151	0.0000151
	06385810	Water			< 0.000000130	0.000000130
PCB# 120						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 121						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 122						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	06385810	Water			< 0.000000649	0.000000649
PCB# 123						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 126						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
PCB# 127						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 128/166						
	10-06-1	Partial Carcass	0.000397	0.000344	0.000106	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	0.000383	0.000327	0.000115	0.0000980
	10-06-4	Partial Carcass	0.000731	0.000344	0.000210	0.0000988
	10-06-5	Partial Carcass	0.000449	0.000271	0.000135	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.00152	0.000332	0.000446	0.0000976
	10-07-4	Partial Carcass	0.00124	0.000399	0.000293	0.0000942
	10-07-5	Partial Carcass	0.000441	0.000304	0.000116	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	0.000304	0.000298	0.0000767	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 129/138/163						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-1	Partial Carcass	0.00330	0.000344	0.000879	0.0000917
	10-06-2	Partial Carcass	0.00349	0.000371	0.000887	0.0000943
	10-06-3	Partial Carcass	0.00433	0.000327	0.00130	0.0000980
	10-06-4	Partial Carcass	0.00825	0.000344	0.00237	0.0000988
	10-06-5	Partial Carcass	0.00452	0.000271	0.00136	0.0000815
	10-07-1	Partial Carcass	0.000935	0.000351	0.000265	0.0000994
	10-07-2	Partial Carcass	0.00228	0.000344	0.000650	0.0000983
	10-07-3	Partial Carcass	0.0119	0.000332	0.00350	0.0000976
	10-07-4	Partial Carcass	0.0103	0.000399	0.00242	0.0000942
	10-07-5	Partial Carcass	0.00395	0.000304	0.00104	0.0000801
	10-07-6	Partial Carcass	0.00135	0.000304	0.000345	0.0000777
	4-08-6	Partial Carcass	0.00305	0.000298	0.000769	0.0000753
	06385810	Water			0.000000893	0.000000649
PCB# 130						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	0.000359	0.000344	0.000103	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000630	0.000332	0.000185	0.0000976
	10-07-4	Partial Carcass	0.000526	0.000399	0.000124	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 131						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 132						
	10-06-1	Partial Carcass	0.000547	0.000344	0.000146	0.0000917
	10-06-2	Partial Carcass	0.000853	0.000371	0.000217	0.0000943
	10-06-3	Partial Carcass	0.00102	0.000327	0.000307	0.0000980
	10-06-4	Partial Carcass	0.00184	0.000344	0.000529	0.0000988
	10-06-5	Partial Carcass	0.000964	0.000271	0.000290	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	0.000578	0.000344	0.000165	0.0000983
	10-07-3	Partial Carcass	0.00300	0.000332	0.000881	0.0000976
	10-07-4	Partial Carcass	0.00238	0.000399	0.000562	0.0000942
	10-07-5	Partial Carcass	0.000935	0.000304	0.000246	0.0000801
	10-07-6	Partial Carcass	0.000346	0.000304	0.0000884	0.0000777
	4-08-6	Partial Carcass	0.000689	0.000298	0.000174	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 133						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 134						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000416	0.000332	0.000122	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 135/151						
	10-06-1	Partial Carcass	0.000615	0.000344	0.000164	0.0000917
	10-06-2	Partial Carcass	0.00101	0.000371	0.000258	0.0000943
	10-06-3	Partial Carcass	0.00114	0.000327	0.000343	0.0000980

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-4	Partial Carcass	0.00202	0.000344	0.000579	0.0000988
	10-06-5	Partial Carcass	0.000954	0.000271	0.000287	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	0.000427	0.000344	0.000122	0.0000983
	10-07-3	Partial Carcass	0.00229	0.000332	0.000671	0.0000976
	10-07-4	Partial Carcass	0.00183	0.000399	0.000432	0.0000942
	10-07-5	Partial Carcass	0.000805	0.000304	0.000212	0.0000801
	10-07-6	Partial Carcass	0.000305	0.000304	0.0000778	0.0000777
	4-08-6	Partial Carcass	0.000717	0.000298	0.000181	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 136						
	10-06-1	Partial Carcass	0.000147	0.000138	0.0000391	0.0000367
	10-06-2	Partial Carcass	0.000285	0.000148	0.0000724	0.0000377
	10-06-3	Partial Carcass	0.000316	0.000131	0.0000948	0.0000392
	10-06-4	Partial Carcass	0.000529	0.000138	0.000152	0.0000395
	10-06-5	Partial Carcass	0.000247	0.000108	0.0000744	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	0.000153	0.000138	0.0000438	0.0000393
	10-07-3	Partial Carcass	0.000725	0.000133	0.000213	0.0000390
	10-07-4	Partial Carcass	0.000530	0.000160	0.000125	0.0000377
	10-07-5	Partial Carcass	0.000233	0.000122	0.0000612	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	0.000201	0.000119	0.0000508	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 137						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 139/140						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 14						
	10-06-1	Partial Carcass	< 0.0000686	0.0000686	< 0.0000183	0.0000183
	10-06-2	Partial Carcass	< 0.0000743	0.0000743	< 0.0000189	0.0000189
	10-06-3	Partial Carcass	< 0.0000653	0.0000653	< 0.0000196	0.0000196
	10-06-4	Partial Carcass	< 0.0000690	0.0000690	< 0.0000198	0.0000198
	10-06-5	Partial Carcass	< 0.0000542	0.0000542	< 0.0000163	0.0000163

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-1	Partial Carcass	< 0.0000702	0.0000702	< 0.0000199	0.0000199
	10-07-2	Partial Carcass	< 0.0000690	0.0000690	< 0.0000197	0.0000197
	10-07-3	Partial Carcass	< 0.0000664	0.0000664	< 0.0000195	0.0000195
	10-07-4	Partial Carcass	< 0.0000797	0.0000797	< 0.0000188	0.0000188
	10-07-5	Partial Carcass	< 0.0000608	0.0000608	< 0.0000160	0.0000160
	10-07-6	Partial Carcass	< 0.0000607	0.0000607	< 0.0000155	0.0000155
	4-08-6	Partial Carcass	< 0.0000598	0.0000598	< 0.0000151	0.0000151
	06385810	Water			< 0.000000130	0.000000130
PCB# 141						
	10-06-1	Partial Carcass	0.000351	0.000138	0.0000937	0.0000367
	10-06-2	Partial Carcass	0.000861	0.000148	0.000219	0.0000377
	10-06-3	Partial Carcass	0.00103	0.000131	0.000309	0.0000392
	10-06-4	Partial Carcass	0.00180	0.000138	0.000516	0.0000395
	10-06-5	Partial Carcass	0.000838	0.000108	0.000252	0.0000326
	10-07-1	Partial Carcass	0.000158	0.000140	0.0000448	0.0000398
	10-07-2	Partial Carcass	0.000396	0.000138	0.000113	0.0000393
	10-07-3	Partial Carcass	0.00221	0.000133	0.000649	0.0000390
	10-07-4	Partial Carcass	0.00191	0.000160	0.000450	0.0000377
	10-07-5	Partial Carcass	0.000748	0.000122	0.000197	0.0000320
	10-07-6	Partial Carcass	0.000228	0.000122	0.0000582	0.0000311
	4-08-6	Partial Carcass	0.000606	0.000119	0.000153	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 142						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 143						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 144						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-3	Partial Carcass	0.000371	0.000332	0.000109	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 145						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 146						
	10-06-1	Partial Carcass	0.000709	0.000344	0.000189	0.0000917
	10-06-2	Partial Carcass	0.000519	0.000371	0.000132	0.0000943
	10-06-3	Partial Carcass	0.000607	0.000327	0.000182	0.0000980
	10-06-4	Partial Carcass	0.00119	0.000344	0.000343	0.0000988
	10-06-5	Partial Carcass	0.000652	0.000271	0.000196	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.00144	0.000332	0.000424	0.0000976

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-4	Partial Carcass	0.00131	0.000399	0.000310	0.0000942
	10-07-5	Partial Carcass	0.000524	0.000304	0.000138	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	0.000436	0.000298	0.000110	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 147/149						
	10-06-1	Partial Carcass	0.00171	0.000344	0.000456	0.0000917
	10-06-2	Partial Carcass	0.00277	0.000371	0.000705	0.0000943
	10-06-3	Partial Carcass	0.00322	0.000327	0.000966	0.0000980
	10-06-4	Partial Carcass	0.00592	0.000344	0.00170	0.0000988
	10-06-5	Partial Carcass	0.00280	0.000271	0.000843	0.0000815
	10-07-1	Partial Carcass	0.000561	0.000351	0.000159	0.0000994
	10-07-2	Partial Carcass	0.00137	0.000344	0.000390	0.0000983
	10-07-3	Partial Carcass	0.00712	0.000332	0.00209	0.0000976
	10-07-4	Partial Carcass	0.00602	0.000399	0.00142	0.0000942
	10-07-5	Partial Carcass	0.00245	0.000304	0.000645	0.0000801
	10-07-6	Partial Carcass	0.000866	0.000304	0.000221	0.0000777
	4-08-6	Partial Carcass	0.00207	0.000298	0.000522	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 148						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 15						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 150						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 152						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 153/168						
	10-06-1	Partial Carcass	0.00364	0.000344	0.000970	0.0000917
	10-06-2	Partial Carcass	0.00401	0.000371	0.00102	0.0000943
	10-06-3	Partial Carcass	0.00480	0.000327	0.00144	0.0000980
	10-06-4	Partial Carcass	0.00902	0.000344	0.00259	0.0000988
	10-06-5	Partial Carcass	0.00475	0.000271	0.00143	0.0000815
	10-07-1	Partial Carcass	0.000875	0.000351	0.000248	0.0000994
	10-07-2	Partial Carcass	0.00200	0.000344	0.000571	0.0000983
	10-07-3	Partial Carcass	0.0104	0.000332	0.00305	0.0000976
	10-07-4	Partial Carcass	0.00954	0.000399	0.00225	0.0000942
	10-07-5	Partial Carcass	0.00380	0.000304	0.00100	0.0000801
	10-07-6	Partial Carcass	0.00137	0.000304	0.000351	0.0000777

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-6	Partial Carcass	0.00321	0.000298	0.000810	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 154						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 155						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	06385810	Water			< 0.00000130	0.00000130
PCB# 156/157						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	0.000623	0.000344	0.000179	0.0000988
	10-06-5	Partial Carcass	0.000349	0.000271	0.000105	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.00129	0.000332	0.000378	0.0000976
	10-07-4	Partial Carcass	0.00106	0.000399	0.000249	0.0000942
	10-07-5	Partial Carcass	0.000351	0.000304	0.0000923	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 158						
	10-06-1	Partial Carcass	0.000182	0.000138	0.0000486	0.0000367
	10-06-2	Partial Carcass	0.000289	0.000148	0.0000734	0.0000377
	10-06-3	Partial Carcass	0.000367	0.000131	0.000110	0.0000392
	10-06-4	Partial Carcass	0.000721	0.000138	0.000207	0.0000395
	10-06-5	Partial Carcass	0.000379	0.000108	0.000114	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	0.000227	0.000138	0.0000648	0.0000393
	10-07-3	Partial Carcass	0.00115	0.000133	0.000337	0.0000390
	10-07-4	Partial Carcass	0.000963	0.000160	0.000227	0.0000377
	10-07-5	Partial Carcass	0.000353	0.000122	0.0000930	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	0.000259	0.000119	0.0000654	0.0000301
	06385810	Water			< 0.000000260	0.000000260

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
PCB# 159						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 16						
	10-06-1	Partial Carcass	0.000157	0.0000686	0.0000420	0.0000183
	10-06-2	Partial Carcass	0.000133	0.0000743	0.0000338	0.0000189
	10-06-3	Partial Carcass	0.000153	0.0000653	0.0000458	0.0000196
	10-06-4	Partial Carcass	0.000176	0.0000690	0.0000505	0.0000198
	10-06-5	Partial Carcass	0.000100	0.0000542	0.0000302	0.0000163
	10-07-1	Partial Carcass	0.000173	0.0000702	0.0000490	0.0000199
	10-07-2	Partial Carcass	0.000135	0.0000690	0.0000385	0.0000197
	10-07-3	Partial Carcass	0.000156	0.0000664	0.0000459	0.0000195
	10-07-4	Partial Carcass	0.000146	0.0000797	0.0000345	0.0000188
	10-07-5	Partial Carcass	0.000119	0.0000608	0.0000314	0.0000160
	10-07-6	Partial Carcass	0.000112	0.0000607	0.0000285	0.0000155
	4-08-6	Partial Carcass	0.0000915	0.0000598	0.0000231	0.0000151
	06385810	Water			0.000000210	0.000000130
PCB# 160						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 161						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 162						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 164						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	0.000522	0.000344	0.000150	0.0000988
	10-06-5	Partial Carcass	0.000287	0.000271	0.0000862	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000729	0.000332	0.000214	0.0000976
	10-07-4	Partial Carcass	0.000619	0.000399	0.000146	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 165						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 167						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000470	0.000332	0.000138	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 169						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 17						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	0.000153	0.000138	0.0000438	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	0.000137	0.000133	0.0000403	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 170						
	10-06-1	Partial Carcass	0.000615	0.000344	0.000164	0.0000917
	10-06-2	Partial Carcass	0.00136	0.000371	0.000346	0.0000943
	10-06-3	Partial Carcass	0.00170	0.000327	0.000511	0.0000980
	10-06-4	Partial Carcass	0.00327	0.000344	0.000940	0.0000988

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-5	Partial Carcass	0.00157	0.000271	0.000471	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	0.000445	0.000344	0.000127	0.0000983
	10-07-3	Partial Carcass	0.00329	0.000332	0.000967	0.0000976
	10-07-4	Partial Carcass	0.00325	0.000399	0.000766	0.0000942
	10-07-5	Partial Carcass	0.00115	0.000304	0.000303	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	0.000962	0.000298	0.000243	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 171/173						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	0.00103	0.000690	0.000297	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	0.00101	0.000664	0.000296	0.000195
	10-07-4	Partial Carcass	0.000941	0.000797	0.000222	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 172						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	0.000693	0.000690	0.000199	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 174						
	10-06-1	Partial Carcass	0.000502	0.000344	0.000134	0.0000917
	10-06-2	Partial Carcass	0.00145	0.000371	0.000368	0.0000943
	10-06-3	Partial Carcass	0.00180	0.000327	0.000539	0.0000980
	10-06-4	Partial Carcass	0.00327	0.000344	0.000938	0.0000988
	10-06-5	Partial Carcass	0.00158	0.000271	0.000476	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	0.000417	0.000344	0.000119	0.0000983
	10-07-3	Partial Carcass	0.00305	0.000332	0.000895	0.0000976
	10-07-4	Partial Carcass	0.00285	0.000399	0.000671	0.0000942
	10-07-5	Partial Carcass	0.00118	0.000304	0.000311	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	0.00102	0.000298	0.000258	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 175						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 176						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 177						
	10-06-1	Partial Carcass	0.000367	0.000344	0.0000979	0.0000917
	10-06-2	Partial Carcass	0.000672	0.000371	0.000171	0.0000943
	10-06-3	Partial Carcass	0.000813	0.000327	0.000244	0.0000980
	10-06-4	Partial Carcass	0.00176	0.000344	0.000504	0.0000988
	10-06-5	Partial Carcass	0.000795	0.000271	0.000239	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-3	Partial Carcass	0.00148	0.000332	0.000435	0.0000976
	10-07-4	Partial Carcass	0.00162	0.000399	0.000383	0.0000942
	10-07-5	Partial Carcass	0.000604	0.000304	0.000159	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	0.000487	0.000298	0.000123	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 178						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	0.000627	0.000344	0.000180	0.0000988
	10-06-5	Partial Carcass	0.000321	0.000271	0.0000967	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000511	0.000332	0.000150	0.0000976
	10-07-4	Partial Carcass	0.000509	0.000399	0.000120	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 179						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	0.000425	0.000371	0.000108	0.0000943
	10-06-3	Partial Carcass	0.000487	0.000327	0.000146	0.0000980
	10-06-4	Partial Carcass	0.000878	0.000344	0.000252	0.0000988
	10-06-5	Partial Carcass	0.000422	0.000271	0.000127	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000773	0.000332	0.000227	0.0000976

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-4	Partial Carcass	0.000670	0.000399	0.000158	0.0000942
	10-07-5	Partial Carcass	0.000310	0.000304	0.0000815	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 18/30						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 180/193						
	10-06-1	Partial Carcass	0.00166	0.000344	0.000444	0.0000917
	10-06-2	Partial Carcass	0.00386	0.000371	0.000981	0.0000943
	10-06-3	Partial Carcass	0.00467	0.000327	0.00140	0.0000980
	10-06-4	Partial Carcass	0.00927	0.000344	0.00266	0.0000988
	10-06-5	Partial Carcass	0.00439	0.000271	0.00132	0.0000815
	10-07-1	Partial Carcass	0.000784	0.000351	0.000222	0.0000994
	10-07-2	Partial Carcass	0.00115	0.000344	0.000329	0.0000983
	10-07-3	Partial Carcass	0.00824	0.000332	0.00242	0.0000976
	10-07-4	Partial Carcass	0.00835	0.000399	0.00197	0.0000942

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-5	Partial Carcass	0.00312	0.000304	0.000821	0.0000801
	10-07-6	Partial Carcass	0.000705	0.000304	0.000180	0.0000777
	4-08-6	Partial Carcass	0.00270	0.000298	0.000682	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 181						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 182						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 183						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	0.000987	0.000743	0.000251	0.000189
	10-06-3	Partial Carcass	0.00116	0.000653	0.000348	0.000196
	10-06-4	Partial Carcass	0.00225	0.000690	0.000647	0.000198
	10-06-5	Partial Carcass	0.00108	0.000542	0.000324	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	0.00198	0.000664	0.000582	0.000195
	10-07-4	Partial Carcass	0.00202	0.000797	0.000476	0.000188
	10-07-5	Partial Carcass	0.000790	0.000608	0.000208	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	0.000685	0.000598	0.000173	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 184						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 185						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 186						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	06385810	Water			< 0.00000130	0.00000130
PCB# 187						
	10-06-1	Partial Carcass	0.00143	0.000344	0.000382	0.0000917
	10-06-2	Partial Carcass	0.00185	0.000371	0.000470	0.0000943
	10-06-3	Partial Carcass	0.00218	0.000327	0.000655	0.0000980
	10-06-4	Partial Carcass	0.00432	0.000344	0.00124	0.0000988
	10-06-5	Partial Carcass	0.00223	0.000271	0.000670	0.0000815
	10-07-1	Partial Carcass	0.000392	0.000351	0.000111	0.0000994
	10-07-2	Partial Carcass	0.000550	0.000344	0.000157	0.0000983
	10-07-3	Partial Carcass	0.00347	0.000332	0.00102	0.0000976
	10-07-4	Partial Carcass	0.00364	0.000399	0.000858	0.0000942
	10-07-5	Partial Carcass	0.00146	0.000304	0.000384	0.0000801
	10-07-6	Partial Carcass	0.000431	0.000304	0.000110	0.0000777
	4-08-6	Partial Carcass	0.00134	0.000298	0.000338	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 188						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
PCB# 189						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 19						
	10-06-1	Partial Carcass	0.000106	0.0000686	0.0000284	0.0000183
	10-06-2	Partial Carcass	< 0.0000743	0.0000743	< 0.0000189	0.0000189
	10-06-3	Partial Carcass	< 0.0000653	0.0000653	< 0.0000196	0.0000196
	10-06-4	Partial Carcass	< 0.0000690	0.0000690	< 0.0000198	0.0000198
	10-06-5	Partial Carcass	< 0.0000542	0.0000542	< 0.0000163	0.0000163
	10-07-1	Partial Carcass	0.0000995	0.0000702	0.0000282	0.0000199
	10-07-2	Partial Carcass	< 0.0000690	0.0000690	< 0.0000197	0.0000197
	10-07-3	Partial Carcass	< 0.0000664	0.0000664	< 0.0000195	0.0000195
	10-07-4	Partial Carcass	< 0.0000797	0.0000797	< 0.0000188	0.0000188
	10-07-5	Partial Carcass	< 0.0000608	0.0000608	< 0.0000160	0.0000160
	10-07-6	Partial Carcass	< 0.0000607	0.0000607	< 0.0000155	0.0000155
	4-08-6	Partial Carcass	< 0.0000598	0.0000598	< 0.0000151	0.0000151
	06385810	Water			< 0.000000130	0.000000130
PCB# 190						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	0.000383	0.000327	0.000115	0.0000980
	10-06-4	Partial Carcass	0.000724	0.000344	0.000208	0.0000988
	10-06-5	Partial Carcass	0.000376	0.000271	0.000113	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000664	0.000332	0.000195	0.0000976
	10-07-4	Partial Carcass	0.000700	0.000399	0.000165	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 191						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 192						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 194						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	0.000378	0.000371	0.0000962	0.0000943
	10-06-3	Partial Carcass	0.000543	0.000327	0.000163	0.0000980
	10-06-4	Partial Carcass	0.000996	0.000344	0.000286	0.0000988
	10-06-5	Partial Carcass	0.000419	0.000271	0.000126	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000845	0.000332	0.000248	0.0000976
	10-07-4	Partial Carcass	0.00110	0.000399	0.000260	0.0000942
	10-07-5	Partial Carcass	0.000335	0.000304	0.0000883	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 195						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 196						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	0.000770	0.000690	0.000221	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 197						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 198/199						
	10-06-1	Partial Carcass	0.000547	0.000344	0.000146	0.0000917
	10-06-2	Partial Carcass	0.000680	0.000371	0.000173	0.0000943
	10-06-3	Partial Carcass	0.000840	0.000327	0.000252	0.0000980
	10-06-4	Partial Carcass	0.00167	0.000344	0.000480	0.0000988
	10-06-5	Partial Carcass	0.000911	0.000271	0.000274	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.00137	0.000332	0.000403	0.0000976
	10-07-4	Partial Carcass	0.00152	0.000399	0.000358	0.0000942
	10-07-5	Partial Carcass	0.000581	0.000304	0.000153	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	0.000495	0.000298	0.000125	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 2						
	10-06-1	Partial Carcass	0.0000115	0.00000686	0.00000308	0.00000183
	10-06-2	Partial Carcass	0.0000112	0.00000743	0.00000286	0.00000189
	10-06-3	Partial Carcass	0.0000121	0.00000653	0.00000363	0.00000196
	10-06-4	Partial Carcass	0.0000140	0.00000690	0.00000401	0.00000198

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-5	Partial Carcass	0.00000894	0.00000542	0.00000269	0.00000163
	10-07-1	Partial Carcass	0.0000118	0.00000702	0.00000335	0.00000199
	10-07-2	Partial Carcass	0.0000163	0.00000690	0.00000467	0.00000197
	10-07-3	Partial Carcass	0.0000132	0.00000664	0.00000387	0.00000195
	10-07-4	Partial Carcass	0.0000168	0.00000797	0.00000397	0.00000188
	10-07-5	Partial Carcass	0.0000119	0.00000608	0.00000314	0.00000160
	10-07-6	Partial Carcass	0.0000113	0.00000607	0.00000289	0.00000155
	4-08-6	Partial Carcass	0.00000966	0.00000598	0.00000244	0.00000151
	06385810	Water			0.0000000264	0.0000000130
PCB# 20/28						
	10-06-1	Partial Carcass	0.000465	0.000344	0.000124	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	0.000540	0.000327	0.000162	0.0000980
	10-06-4	Partial Carcass	0.000724	0.000344	0.000208	0.0000988
	10-06-5	Partial Carcass	0.000300	0.000271	0.0000903	0.0000815
	10-07-1	Partial Carcass	0.000582	0.000351	0.000165	0.0000994
	10-07-2	Partial Carcass	0.000508	0.000344	0.000145	0.0000983
	10-07-3	Partial Carcass	0.000896	0.000332	0.000263	0.0000976
	10-07-4	Partial Carcass	0.000450	0.000399	0.000106	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	0.000331	0.000298	0.0000835	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 200						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 201						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 202						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 203						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	0.00113	0.000690	0.000323	0.000198
	10-06-5	Partial Carcass	0.000602	0.000542	0.000181	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	0.000903	0.000664	0.000265	0.000195
	10-07-4	Partial Carcass	0.00103	0.000797	0.000242	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 204						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 205						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 206						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 207						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 208						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 209						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 21/33						
	10-06-1	Partial Carcass	0.000248	0.000138	0.0000661	0.0000367
	10-06-2	Partial Carcass	0.000252	0.000148	0.0000641	0.0000377
	10-06-3	Partial Carcass	0.000257	0.000131	0.0000771	0.0000392
	10-06-4	Partial Carcass	0.000304	0.000138	0.0000873	0.0000395
	10-06-5	Partial Carcass	0.000164	0.000108	0.0000494	0.0000326
	10-07-1	Partial Carcass	0.000257	0.000140	0.0000727	0.0000398
	10-07-2	Partial Carcass	0.000207	0.000138	0.0000591	0.0000393
	10-07-3	Partial Carcass	0.000262	0.000133	0.0000770	0.0000390
	10-07-4	Partial Carcass	0.000227	0.000160	0.0000535	0.0000377
	10-07-5	Partial Carcass	0.000180	0.000122	0.0000473	0.0000320

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-6	Partial Carcass	0.000154	0.000122	0.0000392	0.0000311
	4-08-6	Partial Carcass	0.000135	0.000119	0.0000342	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 22						
	10-06-1	Partial Carcass	0.000252	0.000138	0.0000673	0.0000367
	10-06-2	Partial Carcass	0.000203	0.000148	0.0000516	0.0000377
	10-06-3	Partial Carcass	0.000271	0.000131	0.0000814	0.0000392
	10-06-4	Partial Carcass	0.000390	0.000138	0.000112	0.0000395
	10-06-5	Partial Carcass	0.000164	0.000108	0.0000493	0.0000326
	10-07-1	Partial Carcass	0.000279	0.000140	0.0000790	0.0000398
	10-07-2	Partial Carcass	0.000159	0.000138	0.0000454	0.0000393
	10-07-3	Partial Carcass	0.000324	0.000133	0.0000952	0.0000390
	10-07-4	Partial Carcass	0.000207	0.000160	0.0000487	0.0000377
	10-07-5	Partial Carcass	0.000144	0.000122	0.0000380	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	0.000125	0.000119	0.0000316	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 23						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 24						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 25						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	06385810	Water			< 0.000000260	0.000000260
PCB# 26/29						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 27						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
PCB# 3						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 31						
	10-06-1	Partial Carcass	0.000454	0.000344	0.000121	0.0000917
	10-06-2	Partial Carcass	0.000387	0.000371	0.0000985	0.0000943
	10-06-3	Partial Carcass	0.000517	0.000327	0.000155	0.0000980
	10-06-4	Partial Carcass	0.000665	0.000344	0.000191	0.0000988
	10-06-5	Partial Carcass	0.000311	0.000271	0.0000934	0.0000815
	10-07-1	Partial Carcass	0.000480	0.000351	0.000136	0.0000994
	10-07-2	Partial Carcass	0.000361	0.000344	0.000103	0.0000983
	10-07-3	Partial Carcass	0.000599	0.000332	0.000176	0.0000976
	10-07-4	Partial Carcass	0.000405	0.000399	0.0000954	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 32						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 34						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 35						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 36						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 37						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 38						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 39						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 4						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 40/41/70						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 42						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	0.000193	0.000138	0.0000553	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	0.000224	0.000133	0.0000657	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 43/73						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 44/47/65						
	10-06-1	Partial Carcass	0.000517	0.000344	0.000138	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	0.000520	0.000327	0.000156	0.0000980
	10-06-4	Partial Carcass	0.000759	0.000344	0.000218	0.0000988
	10-06-5	Partial Carcass	0.000376	0.000271	0.000113	0.0000815
	10-07-1	Partial Carcass	0.000434	0.000351	0.000123	0.0000994
	10-07-2	Partial Carcass	0.000392	0.000344	0.000112	0.0000983
	10-07-3	Partial Carcass	0.00119	0.000332	0.000348	0.0000976
	10-07-4	Partial Carcass	0.000683	0.000399	0.000161	0.0000942
	10-07-5	Partial Carcass	0.000350	0.000304	0.0000920	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	0.000301	0.000298	0.0000761	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 45/51						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 46						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 48						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 49/69						
	10-06-1	Partial Carcass	0.000346	0.000344	0.0000922	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	0.000509	0.000344	0.000146	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000749	0.000332	0.000220	0.0000976
	10-07-4	Partial Carcass	0.000428	0.000399	0.000101	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 5						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-06-5	Partial Carcass	< 0.0000271	0.0000271	< 0.00000815	0.00000815
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
	10-07-5	Partial Carcass	< 0.0000304	0.0000304	< 0.00000801	0.00000801
	10-07-6	Partial Carcass	< 0.0000304	0.0000304	< 0.00000777	0.00000777
	4-08-6	Partial Carcass	< 0.0000298	0.0000298	< 0.00000753	0.00000753
	06385810	Water			< 0.0000000649	0.0000000649
PCB# 50/53						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 52						
	10-06-1	Partial Carcass	0.000686	0.000344	0.000183	0.0000917
	10-06-2	Partial Carcass	0.000483	0.000371	0.000123	0.0000943
	10-06-3	Partial Carcass	0.000760	0.000327	0.000228	0.0000980
	10-06-4	Partial Carcass	0.00103	0.000344	0.000296	0.0000988
	10-06-5	Partial Carcass	0.000515	0.000271	0.000155	0.0000815
	10-07-1	Partial Carcass	0.000537	0.000351	0.000152	0.0000994
	10-07-2	Partial Carcass	0.000623	0.000344	0.000178	0.0000983
	10-07-3	Partial Carcass	0.00235	0.000332	0.000691	0.0000976
	10-07-4	Partial Carcass	0.00124	0.000399	0.000292	0.0000942

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-5	Partial Carcass	0.000570	0.000304	0.000150	0.0000801
	10-07-6	Partial Carcass	0.000356	0.000304	0.0000908	0.0000777
	4-08-6	Partial Carcass	0.000459	0.000298	0.000116	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 54						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 55						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 56						
	10-06-1	Partial Carcass	0.000154	0.000138	0.0000411	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	0.000193	0.000131	0.0000580	0.0000392
	10-06-4	Partial Carcass	0.000333	0.000138	0.0000955	0.0000395
	10-06-5	Partial Carcass	0.000137	0.000108	0.0000413	0.0000326
	10-07-1	Partial Carcass	0.000160	0.000140	0.0000454	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	0.000422	0.000133	0.000124	0.0000390
	10-07-4	Partial Carcass	0.000251	0.000160	0.0000593	0.0000377
	10-07-5	Partial Carcass	0.000122	0.000122	0.0000321	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 57						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 58						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 59/62/75						
	10-06-1	Partial Carcass	< 0.000138	0.000138	< 0.0000367	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	< 0.000131	0.000131	< 0.0000392	0.0000392
	10-06-4	Partial Carcass	< 0.000138	0.000138	< 0.0000395	0.0000395
	10-06-5	Partial Carcass	< 0.000108	0.000108	< 0.0000326	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	< 0.000138	0.000138	< 0.0000393	0.0000393
	10-07-3	Partial Carcass	< 0.000133	0.000133	< 0.0000390	0.0000390
	10-07-4	Partial Carcass	< 0.000160	0.000160	< 0.0000377	0.0000377
	10-07-5	Partial Carcass	< 0.000122	0.000122	< 0.0000320	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	< 0.000119	0.000119	< 0.0000301	0.0000301

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	06385810	Water			< 0.000000260	0.000000260
PCB# 6						
	10-06-1	Partial Carcass	0.0000607	0.0000344	0.0000162	0.00000917
	10-06-2	Partial Carcass	0.0000456	0.0000371	0.0000116	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-06-5	Partial Carcass	< 0.0000271	0.0000271	< 0.00000815	0.00000815
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	0.0000484	0.0000332	0.0000142	0.00000976
	10-07-4	Partial Carcass	0.0000505	0.0000399	0.0000119	0.00000942
	10-07-5	Partial Carcass	0.0000456	0.0000304	0.0000120	0.00000801
	10-07-6	Partial Carcass	0.0000462	0.0000304	0.0000118	0.00000777
	4-08-6	Partial Carcass	< 0.0000298	0.0000298	< 0.00000753	0.00000753
	06385810	Water			0.0000000769	0.0000000649
PCB# 60						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
PCB# 63						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 64						
	10-06-1	Partial Carcass	0.000207	0.000138	0.0000552	0.0000367
	10-06-2	Partial Carcass	0.000154	0.000148	0.0000391	0.0000377
	10-06-3	Partial Carcass	0.000255	0.000131	0.0000766	0.0000392
	10-06-4	Partial Carcass	0.000418	0.000138	0.000120	0.0000395
	10-06-5	Partial Carcass	0.000177	0.000108	0.0000532	0.0000326
	10-07-1	Partial Carcass	0.000218	0.000140	0.0000617	0.0000398
	10-07-2	Partial Carcass	0.000162	0.000138	0.0000462	0.0000393
	10-07-3	Partial Carcass	0.000552	0.000133	0.000162	0.0000390
	10-07-4	Partial Carcass	0.000322	0.000160	0.0000760	0.0000377
	10-07-5	Partial Carcass	0.000155	0.000122	0.0000409	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	0.000133	0.000119	0.0000337	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 66						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-1	Partial Carcass	0.000401	0.000344	0.000107	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	0.000393	0.000327	0.000118	0.0000980
	10-06-4	Partial Carcass	0.000648	0.000344	0.000186	0.0000988
	10-06-5	Partial Carcass	0.000292	0.000271	0.0000877	0.0000815
	10-07-1	Partial Carcass	0.000455	0.000351	0.000129	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.00101	0.000332	0.000296	0.0000976
	10-07-4	Partial Carcass	0.000585	0.000399	0.000138	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 67						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 68						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 7						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-06-5	Partial Carcass	< 0.0000271	0.0000271	< 0.00000815	0.00000815
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
	10-07-5	Partial Carcass	< 0.0000304	0.0000304	< 0.00000801	0.00000801
	10-07-6	Partial Carcass	< 0.0000304	0.0000304	< 0.00000777	0.00000777
	4-08-6	Partial Carcass	< 0.0000298	0.0000298	< 0.00000753	0.00000753
	06385810	Water			< 0.0000000649	0.0000000649
PCB# 70/61/74/76						
	10-06-1	Partial Carcass	0.000799	0.000344	0.000213	0.0000917
	10-06-2	Partial Carcass	0.000531	0.000371	0.000135	0.0000943

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-3	Partial Carcass	0.000820	0.000327	0.000246	0.0000980
	10-06-4	Partial Carcass	0.00133	0.000344	0.000383	0.0000988
	10-06-5	Partial Carcass	0.000602	0.000271	0.000181	0.0000815
	10-07-1	Partial Carcass	0.000805	0.000351	0.000228	0.0000994
	10-07-2	Partial Carcass	0.000669	0.000344	0.000191	0.0000983
	10-07-3	Partial Carcass	0.00264	0.000332	0.000776	0.0000976
	10-07-4	Partial Carcass	0.00147	0.000399	0.000347	0.0000942
	10-07-5	Partial Carcass	0.000616	0.000304	0.000162	0.0000801
	10-07-6	Partial Carcass	0.000327	0.000304	0.0000834	0.0000777
	4-08-6	Partial Carcass	0.000467	0.000298	0.000118	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 72						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 77						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 78						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 79						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 8						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 80						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 81						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 82						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000463	0.000332	0.000136	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 83/99						
	10-06-1	Partial Carcass	0.00105	0.000344	0.000281	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	0.000570	0.000327	0.000171	0.0000980
	10-06-4	Partial Carcass	0.000975	0.000344	0.000280	0.0000988
	10-06-5	Partial Carcass	0.000598	0.000271	0.000180	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	0.000599	0.000344	0.000171	0.0000983
	10-07-3	Partial Carcass	0.00281	0.000332	0.000826	0.0000976
	10-07-4	Partial Carcass	0.00195	0.000399	0.000460	0.0000942
	10-07-5	Partial Carcass	0.000661	0.000304	0.000174	0.0000801
	10-07-6	Partial Carcass	0.000370	0.000304	0.0000944	0.0000777
	4-08-6	Partial Carcass	0.000511	0.000298	0.000129	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 84						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-3	Partial Carcass	0.000937	0.000332	0.000275	0.0000976
	10-07-4	Partial Carcass	0.000594	0.000399	0.000140	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 85/116						
	10-06-1	Partial Carcass	0.000191	0.000138	0.0000509	0.0000367
	10-06-2	Partial Carcass	< 0.000148	0.000148	< 0.0000377	0.0000377
	10-06-3	Partial Carcass	0.000157	0.000131	0.0000471	0.0000392
	10-06-4	Partial Carcass	0.000279	0.000138	0.0000801	0.0000395
	10-06-5	Partial Carcass	0.000164	0.000108	0.0000492	0.0000326
	10-07-1	Partial Carcass	< 0.000140	0.000140	< 0.0000398	0.0000398
	10-07-2	Partial Carcass	0.000162	0.000138	0.0000462	0.0000393
	10-07-3	Partial Carcass	0.000804	0.000133	0.000236	0.0000390
	10-07-4	Partial Carcass	0.000547	0.000160	0.000129	0.0000377
	10-07-5	Partial Carcass	0.000196	0.000122	0.0000517	0.0000320
	10-07-6	Partial Carcass	< 0.000122	0.000122	< 0.0000311	0.0000311
	4-08-6	Partial Carcass	0.000123	0.000119	0.0000311	0.0000301
	06385810	Water			< 0.000000260	0.000000260
PCB# 86/87/97/109/119/125						
	10-06-1	Partial Carcass	0.000776	0.000344	0.000207	0.0000917
	10-06-2	Partial Carcass	0.000511	0.000371	0.000130	0.0000943
	10-06-3	Partial Carcass	0.000743	0.000327	0.000223	0.0000980
	10-06-4	Partial Carcass	0.00118	0.000344	0.000339	0.0000988
	10-06-5	Partial Carcass	0.000701	0.000271	0.000211	0.0000815
	10-07-1	Partial Carcass	0.000385	0.000351	0.000109	0.0000994
	10-07-2	Partial Carcass	0.000781	0.000344	0.000223	0.0000983
	10-07-3	Partial Carcass	0.00371	0.000332	0.00109	0.0000976

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-4	Partial Carcass	0.00250	0.000399	0.000590	0.0000942
	10-07-5	Partial Carcass	0.000881	0.000304	0.000232	0.0000801
	10-07-6	Partial Carcass	0.000423	0.000304	0.000108	0.0000777
	4-08-6	Partial Carcass	0.000614	0.000298	0.000155	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 88/91						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.000548	0.000332	0.000161	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 89						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 9						
	10-06-1	Partial Carcass	< 0.0000344	0.0000344	< 0.00000917	0.00000917
	10-06-2	Partial Carcass	< 0.0000371	0.0000371	< 0.00000943	0.00000943
	10-06-3	Partial Carcass	< 0.0000327	0.0000327	< 0.00000980	0.00000980
	10-06-4	Partial Carcass	< 0.0000344	0.0000344	< 0.00000988	0.00000988
	10-06-5	Partial Carcass	< 0.0000271	0.0000271	< 0.00000815	0.00000815
	10-07-1	Partial Carcass	< 0.0000351	0.0000351	< 0.00000994	0.00000994
	10-07-2	Partial Carcass	< 0.0000344	0.0000344	< 0.00000983	0.00000983
	10-07-3	Partial Carcass	< 0.0000332	0.0000332	< 0.00000976	0.00000976
	10-07-4	Partial Carcass	< 0.0000399	0.0000399	< 0.00000942	0.00000942
	10-07-5	Partial Carcass	< 0.0000304	0.0000304	< 0.00000801	0.00000801
	10-07-6	Partial Carcass	< 0.0000304	0.0000304	< 0.00000777	0.00000777
	4-08-6	Partial Carcass	< 0.0000298	0.0000298	< 0.00000753	0.00000753
	06385810	Water			< 0.0000000649	0.0000000649
PCB# 90/101/113						
	10-06-1	Partial Carcass	0.00160	0.000686	0.000428	0.000183
	10-06-2	Partial Carcass	0.00147	0.000743	0.000373	0.000189
	10-06-3	Partial Carcass	0.00184	0.000653	0.000551	0.000196
	10-06-4	Partial Carcass	0.00296	0.000690	0.000849	0.000198
	10-06-5	Partial Carcass	0.00154	0.000542	0.000463	0.000163
	10-07-1	Partial Carcass	< 0.000702	0.000702	< 0.000199	0.000199
	10-07-2	Partial Carcass	0.00138	0.000690	0.000393	0.000197
	10-07-3	Partial Carcass	0.00674	0.000664	0.00198	0.000195
	10-07-4	Partial Carcass	0.00483	0.000797	0.00114	0.000188
	10-07-5	Partial Carcass	0.00172	0.000608	0.000452	0.000160

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-07-6	Partial Carcass	0.000846	0.000607	0.000216	0.000155
	4-08-6	Partial Carcass	0.00137	0.000598	0.000346	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB# 92						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	0.000421	0.000344	0.000121	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	0.00104	0.000332	0.000304	0.0000976
	10-07-4	Partial Carcass	0.000708	0.000399	0.000167	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 94						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 95						
	10-06-1	Partial Carcass	0.000675	0.000344	0.000180	0.0000917
	10-06-2	Partial Carcass	0.000727	0.000371	0.000185	0.0000943
	10-06-3	Partial Carcass	0.000900	0.000327	0.000270	0.0000980
	10-06-4	Partial Carcass	0.00131	0.000344	0.000375	0.0000988
	10-06-5	Partial Carcass	0.000622	0.000271	0.000187	0.0000815
	10-07-1	Partial Carcass	0.000364	0.000351	0.000103	0.0000994
	10-07-2	Partial Carcass	0.000700	0.000344	0.000200	0.0000983
	10-07-3	Partial Carcass	0.00307	0.000332	0.000900	0.0000976
	10-07-4	Partial Carcass	0.00196	0.000399	0.000461	0.0000942
	10-07-5	Partial Carcass	0.000802	0.000304	0.000211	0.0000801
	10-07-6	Partial Carcass	0.000423	0.000304	0.000108	0.0000777
	4-08-6	Partial Carcass	0.000681	0.000298	0.000172	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 96						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	06385810	Water			< 0.000000649	0.000000649
PCB# 98/100						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649
PCB# 98/102						
	10-06-1	Partial Carcass	< 0.000344	0.000344	< 0.0000917	0.0000917
	10-06-2	Partial Carcass	< 0.000371	0.000371	< 0.0000943	0.0000943
	10-06-3	Partial Carcass	< 0.000327	0.000327	< 0.0000980	0.0000980
	10-06-4	Partial Carcass	< 0.000344	0.000344	< 0.0000988	0.0000988
	10-06-5	Partial Carcass	< 0.000271	0.000271	< 0.0000815	0.0000815
	10-07-1	Partial Carcass	< 0.000351	0.000351	< 0.0000994	0.0000994
	10-07-2	Partial Carcass	< 0.000344	0.000344	< 0.0000983	0.0000983
	10-07-3	Partial Carcass	< 0.000332	0.000332	< 0.0000976	0.0000976
	10-07-4	Partial Carcass	< 0.000399	0.000399	< 0.0000942	0.0000942
	10-07-5	Partial Carcass	< 0.000304	0.000304	< 0.0000801	0.0000801
	10-07-6	Partial Carcass	< 0.000304	0.000304	< 0.0000777	0.0000777
	4-08-6	Partial Carcass	< 0.000298	0.000298	< 0.0000753	0.0000753
	06385810	Water			< 0.000000649	0.000000649

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
PCB-1242						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	0.00202	0.000702	0.000571	0.000199
	10-07-2	Partial Carcass	< 0.000690	0.000690	< 0.000197	0.000197
	10-07-3	Partial Carcass	< 0.000664	0.000664	< 0.000195	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	0.00186	0.000607	0.000475	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			0.00000180	0.00000130
PCB-1248						
	10-06-1	Partial Carcass	< 0.000686	0.000686	< 0.000183	0.000183
	10-06-2	Partial Carcass	< 0.000743	0.000743	< 0.000189	0.000189
	10-06-3	Partial Carcass	< 0.000653	0.000653	< 0.000196	0.000196
	10-06-4	Partial Carcass	< 0.000690	0.000690	< 0.000198	0.000198
	10-06-5	Partial Carcass	< 0.000542	0.000542	< 0.000163	0.000163
	10-07-1	Partial Carcass	0.00403	0.000702	0.00114	0.000199
	10-07-2	Partial Carcass	0.00883	0.000690	0.00252	0.000197
	10-07-3	Partial Carcass	0.0260	0.000664	0.00764	0.000195
	10-07-4	Partial Carcass	< 0.000797	0.000797	< 0.000188	0.000188
	10-07-5	Partial Carcass	< 0.000608	0.000608	< 0.000160	0.000160
	10-07-6	Partial Carcass	0.00372	0.000607	0.000950	0.000155
	4-08-6	Partial Carcass	< 0.000598	0.000598	< 0.000151	0.000151
	06385810	Water			0.00000360	0.00000130
PCB-1254						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-1	Partial Carcass	0.0157	0.000686	0.00420	0.000183
	10-06-2	Partial Carcass	0.0131	0.000743	0.00333	0.000189
	10-06-3	Partial Carcass	0.0162	0.000653	0.00486	0.000196
	10-06-4	Partial Carcass	0.0288	0.000690	0.00828	0.000198
	10-06-5	Partial Carcass	0.0150	0.000542	0.00450	0.000163
	10-07-1	Partial Carcass	0.00907	0.000702	0.00257	0.000199
	10-07-2	Partial Carcass	0.0177	0.000690	0.00505	0.000197
	10-07-3	Partial Carcass	0.0911	0.000664	0.0267	0.000195
	10-07-4	Partial Carcass	0.0651	0.000797	0.0154	0.000188
	10-07-5	Partial Carcass	0.0220	0.000608	0.00580	0.000160
	10-07-6	Partial Carcass	0.0130	0.000607	0.00332	0.000155
	4-08-6	Partial Carcass	0.0125	0.000598	0.00316	0.000151
	06385810	Water			0.0000126	0.00000130
PCB-1260						
	10-06-1	Partial Carcass	0.0236	0.000686	0.00630	0.000183
	10-06-2	Partial Carcass	0.0305	0.000743	0.00777	0.000189
	10-06-3	Partial Carcass	0.0378	0.000653	0.0113	0.000196
	10-06-4	Partial Carcass	0.0673	0.000690	0.0193	0.000198
	10-06-5	Partial Carcass	0.0349	0.000542	0.0105	0.000163
	10-07-1	Partial Carcass	0.00504	0.000702	0.00143	0.000199
	10-07-2	Partial Carcass	0.00294	0.000690	0.000841	0.000197
	10-07-3	Partial Carcass	0.0130	0.000664	0.00382	0.000195
	10-07-4	Partial Carcass	0.0434	0.000797	0.0102	0.000188
	10-07-5	Partial Carcass	0.0220	0.000608	0.00580	0.000160
	10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	4-08-6	Partial Carcass	0.0233	0.000598	0.00588	0.000151
	06385810	Water			< 0.00000130	0.00000130
PCB-TOTAL						
	10-06-1	Partial Carcass	0.0394	0.000686	0.0105	0.000183

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	10-06-2	Partial Carcass	0.0436	0.000743	0.0111	0.000189
	10-06-3	Partial Carcass	0.0540	0.000653	0.0162	0.000196
	10-06-4	Partial Carcass	0.0961	0.000690	0.0276	0.000198
	10-06-5	Partial Carcass	0.0499	0.000542	0.0150	0.000163
	10-07-1	Partial Carcass	0.0202	0.000702	0.00571	0.000199
	10-07-2	Partial Carcass	0.0294	0.000690	0.00841	0.000197
	10-07-3	Partial Carcass	0.130	0.000664	0.0382	0.000195
	10-07-4	Partial Carcass	0.109	0.000797	0.0256	0.000188
	10-07-5	Partial Carcass	0.0441	0.000608	0.0116	0.000160
	10-07-6	Partial Carcass	0.0186	0.000607	0.00475	0.000155
	4-08-6	Partial Carcass	0.0358	0.000598	0.00904	0.000151
	06385810	Water			0.0000180	0.00000130
Pentachlorobenzene						
	*10-06-1	Partial Carcass	0.00976	0.000418	0.00260	0.000111
	*10-06-2	Partial Carcass	0.0102	0.000438	0.00259	0.000111
	*10-06-3	Partial Carcass	0.00910	0.000372	0.00273	0.000111
	*10-06-4	Partial Carcass	0.0109	0.000388	0.00313	0.000111
	*10-06-5	Partial Carcass	0.0126	0.000371	0.00379	0.000111
	*10-07-1	Partial Carcass	0.00880	0.000394	0.00249	0.000111
	*10-07-2	Partial Carcass	0.00764	0.000390	0.00218	0.000111
	*10-07-3	Partial Carcass	0.0107	0.000380	0.00315	0.000111
	*10-07-4	Partial Carcass	0.0121	0.000473	0.00286	0.000111
	*10-07-5	Partial Carcass	0.00944	0.000424	0.00249	0.000111
	*10-07-6	Partial Carcass	0.0118	0.000437	0.00301	0.000111
	*4-08-6	Partial Carcass	0.0119	0.000442	0.00300	0.000111
Total DDT's						
	*10-06-1	Partial Carcass	0.0548	0.00308	0.0146	0.000822
	*10-06-2	Partial Carcass	0.0671	0.00323	0.0171	0.000822
	*10-06-3	Partial Carcass	0.0756	0.00274	0.0227	0.000822

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-06-4	Partial Carcass	0.107	0.00286	0.0307	0.000822
	*10-06-5	Partial Carcass	0.0579	0.00273	0.0174	0.000822
	*10-07-1	Partial Carcass	0.0311	0.00290	0.00880	0.000822
	*10-07-2	Partial Carcass	0.0326	0.00288	0.00932	0.000822
	*10-07-3	Partial Carcass	0.0723	0.00280	0.0212	0.000822
	*10-07-4	Partial Carcass	0.121	0.00349	0.0284	0.000822
	*10-07-5	Partial Carcass	0.0438	0.00312	0.0115	0.000822
	*10-07-6	Partial Carcass	0.0609	0.00322	0.0155	0.000822
	*4-08-6	Partial Carcass	0.0514	0.00326	0.0130	0.000822
acenaphthalene						
	1-08-1	Partial Carcass	0.00212	0.00170	0.000500	0.000402
	1-08-2	Partial Carcass	0.00153	0.00152	0.000400	0.000398
	1-08-3	Partial Carcass	0.00366	0.00146	0.00100	0.000399
	1-08-4	Partial Carcass	0.00501	0.00155	0.00130	0.000401
	1-08-6	Partial Carcass	0.00262	0.00147	0.000700	0.000391
acenaphthene						
	1-08-1	Partial Carcass	< 0.00175	0.00175	< 0.000414	0.000414
	1-08-2	Partial Carcass	< 0.00156	0.00156	< 0.000410	0.000410
	1-08-3	Partial Carcass	0.00256	0.00150	0.000700	0.000411
	1-08-4	Partial Carcass	0.00270	0.00159	0.000700	0.000413
	1-08-6	Partial Carcass	0.00188	0.00151	0.000500	0.000403
alpha BHC						
	*10-06-1	Partial Carcass	< 0.000785	0.000785	< 0.000209	0.000209
	*10-06-2	Partial Carcass	< 0.000823	0.000823	< 0.000209	0.000209
	*10-06-3	Partial Carcass	< 0.000698	0.000698	< 0.000209	0.000209
	*10-06-4	Partial Carcass	< 0.000729	0.000729	< 0.000209	0.000209
	*10-06-5	Partial Carcass	< 0.000696	0.000696	< 0.000209	0.000209
	*10-07-1	Partial Carcass	< 0.000739	0.000739	< 0.000209	0.000209
	*10-07-2	Partial Carcass	< 0.000733	0.000733	< 0.000209	0.000209

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-3	Partial Carcass	< 0.000713	0.000713	< 0.000209	0.000209
	*10-07-4	Partial Carcass	< 0.000888	0.000888	< 0.000209	0.000209
	*10-07-5	Partial Carcass	< 0.000795	0.000795	< 0.000209	0.000209
	*10-07-6	Partial Carcass	< 0.000820	0.000820	< 0.000209	0.000209
	*4-08-6	Partial Carcass	< 0.000829	0.000829	< 0.000209	0.000209
alpha chlordane						
	*10-06-1	Partial Carcass	0.00642	0.000709	0.00171	0.000189
	*10-06-2	Partial Carcass	0.00998	0.000743	0.00254	0.000189
	*10-06-3	Partial Carcass	0.0189	0.000630	0.00566	0.000189
	*10-06-4	Partial Carcass	0.0226	0.000658	0.00649	0.000189
	*10-06-5	Partial Carcass	0.0105	0.000628	0.00317	0.000189
	*10-07-1	Partial Carcass	0.000951	0.000667	0.000269	0.000189
	*10-07-2	Partial Carcass	0.00477	0.000661	0.00136	0.000189
	*10-07-3	Partial Carcass	0.0320	0.000644	0.00938	0.000189
	*10-07-4	Partial Carcass	0.0286	0.000801	0.00675	0.000189
	*10-07-5	Partial Carcass	0.0123	0.000718	0.00323	0.000189
	*10-07-6	Partial Carcass	0.00164	0.000740	0.000419	0.000189
	*4-08-6	Partial Carcass	0.00862	0.000748	0.00218	0.000189
anthracene						
	1-08-1	Partial Carcass	0.00127	0.00103	0.000300	0.000244
	1-08-2	Partial Carcass	0.00114	0.000921	0.000300	0.000241
	1-08-3	Partial Carcass	0.00146	0.000883	0.000400	0.000242
	1-08-4	Partial Carcass	0.00193	0.000937	0.000500	0.000243
	1-08-6	Partial Carcass	0.00112	0.000889	0.000300	0.000237
benzo(a)pyrene						
	1-08-1	Partial Carcass	< 0.00191	0.00191	< 0.000451	0.000451
	1-08-2	Partial Carcass	< 0.00170	0.00170	< 0.000446	0.000446
	1-08-3	Partial Carcass	< 0.00163	0.00163	< 0.000447	0.000447
	1-08-4	Partial Carcass	< 0.00173	0.00173	< 0.000450	0.000450

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-6	Partial Carcass	< 0.00164	0.00164	< 0.000438	0.000438
benzo(b)fluoranthene						
	1-08-1	Partial Carcass	0.00338	0.00139	0.000800	0.000329
	1-08-2	Partial Carcass	0.00153	0.00124	0.000400	0.000326
	1-08-3	Partial Carcass	0.00256	0.00119	0.000700	0.000326
	1-08-4	Partial Carcass	0.00501	0.00127	0.00130	0.000328
	1-08-6	Partial Carcass	< 0.00120	0.00120	< 0.000320	0.000320
benzo(e)pyrene						
	1-08-1	Partial Carcass	< 0.00201	0.00201	< 0.000475	0.000475
	1-08-2	Partial Carcass	< 0.00180	0.00180	< 0.000470	0.000470
	1-08-3	Partial Carcass	< 0.00172	0.00172	< 0.000471	0.000471
	1-08-4	Partial Carcass	0.00231	0.00183	0.000600	0.000474
	1-08-6	Partial Carcass	< 0.00173	0.00173	< 0.000462	0.000462
benzo(g,h,i)perylene						
	1-08-1	Partial Carcass	< 0.00227	0.00227	< 0.000536	0.000536
	1-08-2	Partial Carcass	< 0.00202	0.00202	< 0.000530	0.000530
	1-08-3	Partial Carcass	< 0.00194	0.00194	< 0.000532	0.000532
	1-08-4	Partial Carcass	< 0.00206	0.00206	< 0.000535	0.000535
	1-08-6	Partial Carcass	< 0.00196	0.00196	< 0.000521	0.000521
benzo(k)fluoranthene						
	1-08-1	Partial Carcass	< 0.00175	0.00175	< 0.000414	0.000414
	1-08-2	Partial Carcass	< 0.00156	0.00156	< 0.000410	0.000410
	1-08-3	Partial Carcass	< 0.00150	0.00150	< 0.000411	0.000411
	1-08-4	Partial Carcass	< 0.00159	0.00159	< 0.000413	0.000413
	1-08-6	Partial Carcass	< 0.00151	0.00151	< 0.000403	0.000403
beta BHC						
	*10-06-1	Partial Carcass	< 0.000841	0.000841	< 0.000224	0.000224
	*10-06-2	Partial Carcass	< 0.000882	0.000882	< 0.000224	0.000224
	*10-06-3	Partial Carcass	< 0.000748	0.000748	< 0.000224	0.000224

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-06-4	Partial Carcass	< 0.000781	0.000781	< 0.000224	0.000224
	*10-06-5	Partial Carcass	< 0.000746	0.000746	< 0.000224	0.000224
	*10-07-1	Partial Carcass	< 0.000792	0.000792	< 0.000224	0.000224
	*10-07-2	Partial Carcass	< 0.000785	0.000785	< 0.000224	0.000224
	*10-07-3	Partial Carcass	< 0.000764	0.000764	< 0.000224	0.000224
	*10-07-4	Partial Carcass	< 0.000951	0.000951	< 0.000224	0.000224
	*10-07-5	Partial Carcass	< 0.000852	0.000852	< 0.000224	0.000224
	*10-07-6	Partial Carcass	< 0.000879	0.000879	< 0.000224	0.000224
	*4-08-6	Partial Carcass	< 0.000888	0.000888	< 0.000224	0.000224
biphenyl						
	1-08-1	Partial Carcass	0.00465	0.00314	0.00110	0.000743
	1-08-2	Partial Carcass	0.00687	0.00281	0.00180	0.000735
	1-08-3	Partial Carcass	0.0205	0.00269	0.00560	0.000737
	1-08-4	Partial Carcass	0.0108	0.00286	0.00280	0.000741
	1-08-6	Partial Carcass	0.00637	0.00271	0.00170	0.000723
chlorpyrifos						
	*10-06-1	Partial Carcass	< 0.00104	0.00104	< 0.000277	0.000277
	*10-06-2	Partial Carcass	< 0.00109	0.00109	< 0.000277	0.000277
	*10-06-3	Partial Carcass	< 0.000923	0.000923	< 0.000277	0.000277
	*10-06-4	Partial Carcass	< 0.000965	0.000965	< 0.000277	0.000277
	*10-06-5	Partial Carcass	< 0.000921	0.000921	< 0.000277	0.000277
	*10-07-1	Partial Carcass	< 0.000978	0.000978	< 0.000277	0.000277
	*10-07-2	Partial Carcass	< 0.000969	0.000969	< 0.000277	0.000277
	*10-07-3	Partial Carcass	< 0.000943	0.000943	< 0.000277	0.000277
	*10-07-4	Partial Carcass	< 0.00118	0.00118	< 0.000277	0.000277
	*10-07-5	Partial Carcass	< 0.00105	0.00105	< 0.000277	0.000277
	*10-07-6	Partial Carcass	< 0.00108	0.00108	< 0.000277	0.000277
	*4-08-6	Partial Carcass	< 0.00110	0.00110	< 0.000277	0.000277
chrysene						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-1	Partial Carcass	0.00212	0.00201	0.000500	0.000475
	1-08-2	Partial Carcass	0.00191	0.00180	0.000500	0.000470
	1-08-3	Partial Carcass	0.00183	0.00172	0.000500	0.000471
	1-08-4	Partial Carcass	0.00347	0.00183	0.000900	0.000474
	1-08-6	Partial Carcass	< 0.00173	0.00173	< 0.000462	0.000462
cis-nonachlor						
	*10-06-1	Partial Carcass	0.00365	0.000526	0.000973	0.000140
	*10-06-2	Partial Carcass	0.00455	0.000551	0.00116	0.000140
	*10-06-3	Partial Carcass	0.00736	0.000467	0.00221	0.000140
	*10-06-4	Partial Carcass	0.00965	0.000488	0.00277	0.000140
	*10-06-5	Partial Carcass	0.00529	0.000466	0.00159	0.000140
	*10-07-1	Partial Carcass	0.000555	0.000495	0.000157	0.000140
	*10-07-2	Partial Carcass	0.00230	0.000491	0.000656	0.000140
	*10-07-3	Partial Carcass	0.0117	0.000478	0.00344	0.000140
	*10-07-4	Partial Carcass	0.0143	0.000595	0.00337	0.000140
	*10-07-5	Partial Carcass	0.00661	0.000533	0.00174	0.000140
	*10-07-6	Partial Carcass	0.00101	0.000549	0.000259	0.000140
	*4-08-6	Partial Carcass	0.00387	0.000555	0.000977	0.000140
delta BHC						
	*10-06-1	Partial Carcass	< 0.000409	0.000409	< 0.000109	0.000109
	*10-06-2	Partial Carcass	< 0.000429	0.000429	< 0.000109	0.000109
	*10-06-3	Partial Carcass	< 0.000363	0.000363	< 0.000109	0.000109
	*10-06-4	Partial Carcass	< 0.000380	0.000380	< 0.000109	0.000109
	*10-06-5	Partial Carcass	< 0.000362	0.000362	< 0.000109	0.000109
	*10-07-1	Partial Carcass	< 0.000385	0.000385	< 0.000109	0.000109
	*10-07-2	Partial Carcass	< 0.000382	0.000382	< 0.000109	0.000109
	*10-07-3	Partial Carcass	< 0.000371	0.000371	< 0.000109	0.000109
	*10-07-4	Partial Carcass	< 0.000462	0.000462	< 0.000109	0.000109
	*10-07-5	Partial Carcass	< 0.000414	0.000414	< 0.000109	0.000109

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-6	Partial Carcass	< 0.000427	0.000427	< 0.000109	0.000109
	*4-08-6	Partial Carcass	< 0.000432	0.000432	< 0.000109	0.000109
dibenzothiophene						
	1-08-1	Partial Carcass	< 0.00144	0.00144	< 0.000341	0.000341
	1-08-2	Partial Carcass	0.00153	0.00129	0.000400	0.000338
	1-08-3	Partial Carcass	0.00146	0.00124	0.000400	0.000338
	1-08-4	Partial Carcass	0.00193	0.00131	0.000500	0.000340
	1-08-6	Partial Carcass	< 0.00124	0.00124	< 0.000332	0.000332
dieldrin						
	*10-06-1	Partial Carcass	0.00273	0.000707	0.000727	0.000189
	*10-06-2	Partial Carcass	0.00336	0.000741	0.000855	0.000189
	*10-06-3	Partial Carcass	0.0138	0.000629	0.00415	0.000189
	*10-06-4	Partial Carcass	0.0133	0.000657	0.00382	0.000189
	*10-06-5	Partial Carcass	0.00926	0.000627	0.00278	0.000189
	*10-07-1	Partial Carcass	< 0.000666	0.000666	< 0.000189	0.000189
	*10-07-2	Partial Carcass	0.00155	0.000660	0.000442	0.000189
	*10-07-3	Partial Carcass	0.00970	0.000642	0.00285	0.000189
	*10-07-4	Partial Carcass	0.0104	0.000800	0.00246	0.000189
	*10-07-5	Partial Carcass	0.00519	0.000717	0.00137	0.000189
	*10-07-6	Partial Carcass	0.00164	0.000739	0.000419	0.000189
	*4-08-6	Partial Carcass	0.00537	0.000747	0.00136	0.000189
endosulfan I						
	*10-06-1	Partial Carcass	0.00597	0.000569	0.00159	0.000152
	*10-06-2	Partial Carcass	0.00652	0.000596	0.00166	0.000152
	*10-06-3	Partial Carcass	0.00831	0.000506	0.00249	0.000152
	*10-06-4	Partial Carcass	0.0120	0.000528	0.00345	0.000152
	*10-06-5	Partial Carcass	0.00782	0.000504	0.00235	0.000152
	*10-07-1	Partial Carcass	0.00123	0.000536	0.000347	0.000152
	*10-07-2	Partial Carcass	0.00225	0.000531	0.000642	0.000152

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-3	Partial Carcass	0.0142	0.000517	0.00418	0.000152
	*10-07-4	Partial Carcass	0.0172	0.000643	0.00405	0.000152
	*10-07-5	Partial Carcass	0.00815	0.000576	0.00214	0.000152
	*10-07-6	Partial Carcass	0.00226	0.000594	0.000577	0.000152
	*4-08-6	Partial Carcass	0.00502	0.000601	0.00127	0.000152
endosulfan II						
	*10-06-1	Partial Carcass	0.000879	0.000557	0.000234	0.000148
	*10-06-2	Partial Carcass	< 0.000584	0.000584	< 0.000148	0.000148
	*10-06-3	Partial Carcass	< 0.000495	0.000495	< 0.000148	0.000148
	*10-06-4	Partial Carcass	< 0.000517	0.000517	< 0.000148	0.000148
	*10-06-5	Partial Carcass	0.00216	0.000494	0.000648	0.000148
	*10-07-1	Partial Carcass	< 0.000524	0.000524	< 0.000148	0.000148
	*10-07-2	Partial Carcass	< 0.000520	0.000520	< 0.000148	0.000148
	*10-07-3	Partial Carcass	0.00106	0.000506	0.000312	0.000148
	*10-07-4	Partial Carcass	< 0.000630	0.000630	< 0.000148	0.000148
	*10-07-5	Partial Carcass	< 0.000564	0.000564	< 0.000148	0.000148
	*10-07-6	Partial Carcass	< 0.000582	0.000582	< 0.000148	0.000148
	*4-08-6	Partial Carcass	< 0.000588	0.000588	< 0.000148	0.000148
endosulfan sulfate						
	*10-06-1	Partial Carcass	0.00528	0.000579	0.00141	0.000154
	*10-06-2	Partial Carcass	0.00944	0.000607	0.00240	0.000154
	*10-06-3	Partial Carcass	0.0145	0.000515	0.00434	0.000154
	*10-06-4	Partial Carcass	0.0160	0.000538	0.00460	0.000154
	*10-06-5	Partial Carcass	0.00945	0.000513	0.00284	0.000154
	*10-07-1	Partial Carcass	0.00150	0.000545	0.000427	0.000154
	*10-07-2	Partial Carcass	0.00384	0.000541	0.00110	0.000154
	*10-07-3	Partial Carcass	0.0110	0.000526	0.00322	0.000154
	*10-07-4	Partial Carcass	0.0183	0.000655	0.00432	0.000154
	*10-07-5	Partial Carcass	0.00753	0.000587	0.00198	0.000154

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-6	Partial Carcass	0.00188	0.000605	0.000481	0.000154
	*4-08-6	Partial Carcass	0.00604	0.000612	0.00152	0.000154
endrin						
	*10-06-1	Partial Carcass	< 0.000759	0.000759	< 0.000202	0.000202
	*10-06-2	Partial Carcass	< 0.000795	0.000795	< 0.000202	0.000202
	*10-06-3	Partial Carcass	< 0.000675	0.000675	< 0.000202	0.000202
	*10-06-4	Partial Carcass	< 0.000705	0.000705	< 0.000202	0.000202
	*10-06-5	Partial Carcass	< 0.000673	0.000673	< 0.000202	0.000202
	*10-07-1	Partial Carcass	< 0.000714	0.000714	< 0.000202	0.000202
	*10-07-2	Partial Carcass	< 0.000708	0.000708	< 0.000202	0.000202
	*10-07-3	Partial Carcass	< 0.000689	0.000689	< 0.000202	0.000202
	*10-07-4	Partial Carcass	< 0.000858	0.000858	< 0.000202	0.000202
	*10-07-5	Partial Carcass	< 0.000769	0.000769	< 0.000202	0.000202
	*10-07-6	Partial Carcass	< 0.000793	0.000793	< 0.000202	0.000202
	*4-08-6	Partial Carcass	< 0.000801	0.000801	< 0.000202	0.000202
fluoranthene						
	1-08-1	Partial Carcass	0.00423	0.00129	0.00100	0.000304
	1-08-2	Partial Carcass	0.00687	0.00115	0.00180	0.000301
	1-08-3	Partial Carcass	0.00439	0.00110	0.00120	0.000302
	1-08-4	Partial Carcass	0.0108	0.00117	0.00280	0.000304
	1-08-6	Partial Carcass	0.00188	0.00111	0.000500	0.000296
fluorene						
	1-08-1	Partial Carcass	0.00508	0.00175	0.00120	0.000414
	1-08-2	Partial Carcass	0.00573	0.00156	0.00150	0.000410
	1-08-3	Partial Carcass	0.00804	0.00150	0.00220	0.000411
	1-08-4	Partial Carcass	0.00733	0.00159	0.00190	0.000413
	1-08-6	Partial Carcass	0.00525	0.00151	0.00140	0.000403
gamma BHC						
	*10-06-1	Partial Carcass	< 0.000351	0.000351	< 0.0000940	0.0000940

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-06-2	Partial Carcass	< 0.000368	0.000368	< 0.0000940	0.0000940
	*10-06-3	Partial Carcass	< 0.000312	0.000312	< 0.0000940	0.0000940
	*10-06-4	Partial Carcass	< 0.000326	0.000326	< 0.0000940	0.0000940
	*10-06-5	Partial Carcass	< 0.000311	0.000311	< 0.0000940	0.0000940
	*10-07-1	Partial Carcass	< 0.000330	0.000330	< 0.0000940	0.0000940
	*10-07-2	Partial Carcass	< 0.000327	0.000327	< 0.0000940	0.0000940
	*10-07-3	Partial Carcass	0.00900	0.000318	0.00264	0.0000940
	*10-07-4	Partial Carcass	0.000497	0.000397	0.000117	0.0000940
	*10-07-5	Partial Carcass	< 0.000355	0.000355	< 0.0000940	0.0000940
	*10-07-6	Partial Carcass	< 0.000366	0.000366	< 0.0000940	0.0000940
	*4-08-6	Partial Carcass	< 0.000370	0.000370	< 0.0000940	0.0000940
gamma chlordane						
	*10-06-1	Partial Carcass	0.00321	0.000581	0.000856	0.000155
	*10-06-2	Partial Carcass	0.00484	0.000609	0.00123	0.000155
	*10-06-3	Partial Carcass	0.0107	0.000516	0.00322	0.000155
	*10-06-4	Partial Carcass	0.0114	0.000539	0.00328	0.000155
	*10-06-5	Partial Carcass	0.00500	0.000515	0.00150	0.000155
	*10-07-1	Partial Carcass	< 0.000547	0.000547	< 0.000155	0.000155
	*10-07-2	Partial Carcass	0.00331	0.000542	0.000946	0.000155
	*10-07-3	Partial Carcass	0.0186	0.000528	0.00546	0.000155
	*10-07-4	Partial Carcass	0.0138	0.000657	0.00324	0.000155
	*10-07-5	Partial Carcass	0.00601	0.000588	0.00158	0.000155
	*10-07-6	Partial Carcass	0.000676	0.000607	0.000173	0.000155
	*4-08-6	Partial Carcass	0.00449	0.000613	0.00113	0.000155
heptachlor epoxide						
	*10-06-1	Partial Carcass	0.000703	0.000598	0.000188	0.000160
	*10-06-2	Partial Carcass	< 0.000627	0.000627	< 0.000160	0.000160
	*10-06-3	Partial Carcass	0.00102	0.000532	0.000306	0.000160
	*10-06-4	Partial Carcass	0.00150	0.000556	0.000429	0.000160

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-06-5	Partial Carcass	0.00108	0.000531	0.000324	0.000160
	*10-07-1	Partial Carcass	< 0.000563	0.000563	< 0.000160	0.000160
	*10-07-2	Partial Carcass	< 0.000559	0.000559	< 0.000160	0.000160
	*10-07-3	Partial Carcass	0.00106	0.000544	0.000312	0.000160
	*10-07-4	Partial Carcass	< 0.000677	0.000677	< 0.000160	0.000160
	*10-07-5	Partial Carcass	0.000941	0.000606	0.000248	0.000160
	*10-07-6	Partial Carcass	< 0.000625	0.000625	< 0.000160	0.000160
	*4-08-6	Partial Carcass	< 0.000632	0.000632	< 0.000160	0.000160
indeno(1,2,3-cd)pyrene						
	1-08-1	Partial Carcass	< 0.00294	0.00294	< 0.000694	0.000694
	1-08-2	Partial Carcass	< 0.00262	0.00262	< 0.000687	0.000687
	1-08-3	Partial Carcass	< 0.00252	0.00252	< 0.000689	0.000689
	1-08-4	Partial Carcass	< 0.00267	0.00267	< 0.000693	0.000693
	1-08-6	Partial Carcass	< 0.00253	0.00253	< 0.000675	0.000675
mirex						
	*10-06-1	Partial Carcass	< 0.000462	0.000462	< 0.000123	0.000123
	*10-06-2	Partial Carcass	< 0.000485	0.000485	< 0.000123	0.000123
	*10-06-3	Partial Carcass	< 0.000411	0.000411	< 0.000123	0.000123
	*10-06-4	Partial Carcass	0.000453	0.000430	0.000130	0.000123
	*10-06-5	Partial Carcass	< 0.000410	0.000410	< 0.000123	0.000123
	*10-07-1	Partial Carcass	< 0.000435	0.000435	< 0.000123	0.000123
	*10-07-2	Partial Carcass	< 0.000432	0.000432	< 0.000123	0.000123
	*10-07-3	Partial Carcass	< 0.000420	0.000420	< 0.000123	0.000123
	*10-07-4	Partial Carcass	< 0.000523	0.000523	< 0.000123	0.000123
	*10-07-5	Partial Carcass	< 0.000469	0.000469	< 0.000123	0.000123
	*10-07-6	Partial Carcass	< 0.000483	0.000483	< 0.000123	0.000123
	*4-08-6	Partial Carcass	< 0.000488	0.000488	< 0.000123	0.000123
n-decane						
	1-08-1	Partial Carcass	0.841	0.0548	0.199	0.0130

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-2	Partial Carcass	0.183	0.0490	0.0479	0.0128
	1-08-3	Partial Carcass	0.241	0.0470	0.0660	0.0128
	1-08-4	Partial Carcass	0.268	0.0499	0.0695	0.0129
	1-08-6	Partial Carcass	0.338	0.0473	0.0901	0.0126
n-docosane						
	1-08-1	Partial Carcass	< 0.0693	0.0693	< 0.0164	0.0164
	1-08-2	Partial Carcass	< 0.0619	0.0619	< 0.0162	0.0162
	1-08-3	Partial Carcass	3.25	0.0594	0.889	0.0163
	1-08-4	Partial Carcass	< 0.0631	0.0631	< 0.0164	0.0164
	1-08-6	Partial Carcass	< 0.0598	0.0598	< 0.0159	0.0159
n-dodecane						
	1-08-1	Partial Carcass	0.0966	0.0401	0.0228	0.00948
	1-08-2	Partial Carcass	0.125	0.0358	0.0327	0.00939
	1-08-3	Partial Carcass	0.208	0.0344	0.0569	0.00940
	1-08-4	Partial Carcass	0.203	0.0365	0.0526	0.00946
	1-08-6	Partial Carcass	< 0.0346	0.0346	< 0.00922	0.00922
n-dotriacontane						
	1-08-1	Partial Carcass	< 0.0631	0.0631	< 0.0149	0.0149
	1-08-2	Partial Carcass	< 0.0564	0.0564	< 0.0148	0.0148
	1-08-3	Partial Carcass	< 0.0541	0.0541	< 0.0148	0.0148
	1-08-4	Partial Carcass	< 0.0574	0.0574	< 0.0149	0.0149
	1-08-6	Partial Carcass	< 0.0544	0.0544	< 0.0145	0.0145
n-eicosane						
	*1-08-1	Partial Carcass	5.13	0.0706	1.21	0.0167
	1-08-2	Partial Carcass	< 0.0631	0.0631	< 0.0165	0.0165
	1-08-3	Partial Carcass	0.675	0.0605	0.185	0.0166
	1-08-4	Partial Carcass	1.26	0.0642	0.327	0.0167
	1-08-6	Partial Carcass	< 0.0609	0.0609	< 0.0162	0.0162
n-heneicosane						

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-1	Partial Carcass	0.297	0.0742	0.0702	0.0175
	1-08-2	Partial Carcass	< 0.0663	0.0663	< 0.0174	0.0174
	1-08-3	Partial Carcass	5.28	0.0636	1.45	0.0174
	1-08-4	Partial Carcass	0.397	0.0675	0.103	0.0175
	1-08-6	Partial Carcass	< 0.0640	0.0640	< 0.0171	0.0171
n-hentriacontane						
	1-08-1	Partial Carcass	0.468	0.0645	0.111	0.0152
	1-08-2	Partial Carcass	< 0.0576	0.0576	< 0.0151	0.0151
	1-08-3	Partial Carcass	21.4	0.0553	5.85	0.0151
	1-08-4	Partial Carcass	< 0.0587	0.0587	< 0.0152	0.0152
	1-08-6	Partial Carcass	< 0.0556	0.0556	< 0.0148	0.0148
n-heptacosane						
	1-08-1	Partial Carcass	1.24	0.0615	0.294	0.0145
	1-08-2	Partial Carcass	0.388	0.0550	0.102	0.0144
	1-08-3	Partial Carcass	1.69	0.0527	0.463	0.0144
	*1-08-4	Partial Carcass	4.65	0.0560	1.21	0.0145
	1-08-6	Partial Carcass	0.494	0.0530	0.132	0.0141
n-heptadecane						
	1-08-1	Partial Carcass	11.5	0.0564	2.73	0.0133
	*1-08-2	Partial Carcass	24.8	0.0504	6.49	0.0132
	*1-08-3	Partial Carcass	28.0	0.0484	7.66	0.0132
	1-08-4	Partial Carcass	15.9	0.0514	4.12	0.0133
	*1-08-6	Partial Carcass	66.1	0.0487	17.6	0.0130
n-hexacosane						
	1-08-1	Partial Carcass	0.914	0.0630	0.216	0.0149
	1-08-2	Partial Carcass	0.346	0.0563	0.0907	0.0148
	1-08-3	Partial Carcass	1.14	0.0540	0.312	0.0148
	1-08-4	Partial Carcass	2.10	0.0573	0.545	0.0149
	1-08-6	Partial Carcass	2.13	0.0544	0.567	0.0145

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
n-hexadecane						
	1-08-1	Partial Carcass	1.15	0.0694	0.271	0.0164
	1-08-2	Partial Carcass	1.29	0.0620	0.337	0.0162
	1-08-3	Partial Carcass	2.85	0.0595	0.780	0.0163
	1-08-4	Partial Carcass	3.27	0.0631	0.849	0.0164
	1-08-6	Partial Carcass	1.94	0.0598	0.517	0.0160
n-nonacosane						
	1-08-1	Partial Carcass	0.248	0.0564	0.0587	0.0133
	1-08-2	Partial Carcass	< 0.0504	0.0504	< 0.0132	0.0132
	*1-08-3	Partial Carcass	25.2	0.0484	6.88	0.0132
	*1-08-4	Partial Carcass	31.9	0.0514	8.26	0.0133
	1-08-6	Partial Carcass	< 0.0487	0.0487	< 0.0130	0.0130
n-nonadecane						
	1-08-1	Partial Carcass	0.925	0.0578	0.219	0.0137
	1-08-2	Partial Carcass	1.60	0.0517	0.419	0.0135
	*1-08-3	Partial Carcass	19.4	0.0495	5.32	0.0136
	1-08-4	Partial Carcass	0.668	0.0526	0.173	0.0136
	1-08-6	Partial Carcass	3.09	0.0499	0.825	0.0133
n-octacosane						
	1-08-1	Partial Carcass	0.223	0.0610	0.0528	0.0144
	1-08-2	Partial Carcass	< 0.0545	0.0545	< 0.0143	0.0143
	1-08-3	Partial Carcass	0.689	0.0523	0.188	0.0143
	1-08-4	Partial Carcass	< 0.0555	0.0555	< 0.0144	0.0144
	1-08-6	Partial Carcass	< 0.0526	0.0526	< 0.0140	0.0140
n-octadecane						
	*1-08-1	Partial Carcass	11.6	0.0681	2.75	0.0161
	*1-08-2	Partial Carcass	12.8	0.0608	3.36	0.0159
	*1-08-3	Partial Carcass	25.3	0.0584	6.92	0.0160
	*1-08-4	Partial Carcass	18.5	0.0620	4.79	0.0161

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*1-08-6	Partial Carcass	17.5	0.0587	4.66	0.0157
n-pentacosane						
	1-08-1	Partial Carcass	5.20	0.0712	1.23	0.0168
	1-08-2	Partial Carcass	1.25	0.0636	0.327	0.0167
	1-08-3	Partial Carcass	3.09	0.0610	0.846	0.0167
	1-08-4	Partial Carcass	1.67	0.0648	0.434	0.0168
	1-08-6	Partial Carcass	1.32	0.0614	0.353	0.0164
n-pentadecane						
	*1-08-1	Partial Carcass	13.3	0.0878	3.15	0.0208
	*1-08-2	Partial Carcass	21.4	0.0785	5.61	0.0205
	*1-08-3	Partial Carcass	40.9	0.0753	11.2	0.0206
	*1-08-4	Partial Carcass	25.8	0.0799	6.69	0.0207
	*1-08-6	Partial Carcass	10.8	0.0757	2.87	0.0202
n-tetracosane						
	1-08-1	Partial Carcass	2.38	0.0560	0.562	0.0132
	1-08-2	Partial Carcass	0.807	0.0500	0.211	0.0131
	1-08-3	Partial Carcass	0.245	0.0480	0.0671	0.0131
	1-08-4	Partial Carcass	0.348	0.0510	0.0902	0.0132
	1-08-6	Partial Carcass	0.502	0.0483	0.134	0.0129
n-tetradecane						
	1-08-1	Partial Carcass	0.430	0.0696	0.102	0.0164
	1-08-2	Partial Carcass	0.506	0.0622	0.132	0.0163
	1-08-3	Partial Carcass	1.25	0.0596	0.343	0.0163
	1-08-4	Partial Carcass	0.334	0.0633	0.0867	0.0164
	1-08-6	Partial Carcass	0.512	0.0600	0.137	0.0160
n-tetratriacontane						
	1-08-1	Partial Carcass	< 0.0618	0.0618	< 0.0146	0.0146
	1-08-2	Partial Carcass	< 0.0552	0.0552	< 0.0145	0.0145
	1-08-3	Partial Carcass	< 0.0529	0.0529	< 0.0145	0.0145

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-4	Partial Carcass	< 0.0562	0.0562	< 0.0146	0.0146
	1-08-6	Partial Carcass	< 0.0533	0.0533	< 0.0142	0.0142
n-triacontane						
	1-08-1	Partial Carcass	0.252	0.0598	0.0596	0.0141
	1-08-2	Partial Carcass	< 0.0535	0.0535	< 0.0140	0.0140
	1-08-3	Partial Carcass	0.989	0.0513	0.270	0.0140
	1-08-4	Partial Carcass	0.986	0.0544	0.256	0.0141
	1-08-6	Partial Carcass	< 0.0516	0.0516	< 0.0138	0.0138
n-tricosane						
	*1-08-1	Partial Carcass	46.1	0.0674	10.9	0.0159
	*1-08-2	Partial Carcass	24.5	0.0602	6.42	0.0158
	*1-08-3	Partial Carcass	11.2	0.0577	3.07	0.0158
	1-08-4	Partial Carcass	< 0.0613	0.0613	< 0.0159	0.0159
	*1-08-6	Partial Carcass	14.4	0.0581	3.84	0.0155
n-tridecane						
	1-08-1	Partial Carcass	0.713	0.0695	0.168	0.0164
	1-08-2	Partial Carcass	1.27	0.0621	0.333	0.0163
	1-08-3	Partial Carcass	3.33	0.0596	0.912	0.0163
	1-08-4	Partial Carcass	2.23	0.0632	0.577	0.0164
	1-08-6	Partial Carcass	4.09	0.0599	1.09	0.0160
n-tritriacontane						
	1-08-1	Partial Carcass	< 0.0537	0.0537	< 0.0127	0.0127
	1-08-2	Partial Carcass	< 0.0480	0.0480	< 0.0126	0.0126
	1-08-3	Partial Carcass	< 0.0460	0.0460	< 0.0126	0.0126
	1-08-4	Partial Carcass	< 0.0488	0.0488	< 0.0127	0.0127
	1-08-6	Partial Carcass	< 0.0463	0.0463	< 0.0123	0.0123
n-undecane						
	*1-08-1	Partial Carcass	78.4	0.0606	18.5	0.0143
	1-08-2	Partial Carcass	0.157	0.0541	0.0410	0.0142

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-3	Partial Carcass	0.265	0.0519	0.0725	0.0142
	1-08-4	Partial Carcass	0.360	0.0551	0.0933	0.0143
	1-08-6	Partial Carcass	0.341	0.0523	0.0908	0.0139
naphthalene						
	1-08-1	Partial Carcass	0.0550	0.00422	0.0130	0.000999
	1-08-2	Partial Carcass	0.0531	0.00378	0.0139	0.000989
	1-08-3	Partial Carcass	0.0541	0.00362	0.0148	0.000991
	1-08-4	Partial Carcass	0.0594	0.00384	0.0154	0.000997
	1-08-6	Partial Carcass	0.0649	0.00364	0.0173	0.000972
o,p'-DDD						
	*10-06-1	Partial Carcass	0.00220	0.000773	0.000586	0.000206
	*10-06-2	Partial Carcass	0.00193	0.000810	0.000490	0.000206
	*10-06-3	Partial Carcass	0.00191	0.000687	0.000574	0.000206
	*10-06-4	Partial Carcass	0.00290	0.000718	0.000832	0.000206
	*10-06-5	Partial Carcass	0.00220	0.000685	0.000663	0.000206
	*10-07-1	Partial Carcass	< 0.000728	0.000728	< 0.000206	0.000206
	*10-07-2	Partial Carcass	< 0.000721	0.000721	< 0.000206	0.000206
	*10-07-3	Partial Carcass	0.00295	0.000702	0.000865	0.000206
	*10-07-4	Partial Carcass	0.00452	0.000874	0.00106	0.000206
	*10-07-5	Partial Carcass	0.00152	0.000783	0.000399	0.000206
	*10-07-6	Partial Carcass	< 0.000807	0.000807	< 0.000206	0.000206
	*4-08-6	Partial Carcass	0.00119	0.000816	0.000300	0.000206
o,p'-DDE						
	*10-06-1	Partial Carcass	0.00154	0.000445	0.000410	0.000119
	*10-06-2	Partial Carcass	0.00183	0.000466	0.000465	0.000119
	*10-06-3	Partial Carcass	0.00140	0.000395	0.000421	0.000119
	*10-06-4	Partial Carcass	0.00258	0.000413	0.000741	0.000119
	*10-06-5	Partial Carcass	0.00294	0.000394	0.000884	0.000119
	*10-07-1	Partial Carcass	< 0.000419	0.000419	< 0.000119	0.000119

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-2	Partial Carcass	0.000574	0.000415	0.000164	0.000119
	*10-07-3	Partial Carcass	0.00135	0.000404	0.000396	0.000119
	*10-07-4	Partial Carcass	0.00223	0.000503	0.000527	0.000119
	*10-07-5	Partial Carcass	0.00142	0.000451	0.000375	0.000119
	*10-07-6	Partial Carcass	0.00121	0.000465	0.000308	0.000119
	*4-08-6	Partial Carcass	0.000826	0.000470	0.000209	0.000119
o,p'-DDT						
	*10-06-1	Partial Carcass	< 0.000582	0.000582	< 0.000155	0.000155
	*10-06-2	Partial Carcass	< 0.000610	0.000610	< 0.000155	0.000155
	*10-06-3	Partial Carcass	< 0.000517	0.000517	< 0.000155	0.000155
	*10-06-4	Partial Carcass	< 0.000540	0.000540	< 0.000155	0.000155
	*10-06-5	Partial Carcass	< 0.000516	0.000516	< 0.000155	0.000155
	*10-07-1	Partial Carcass	< 0.000547	0.000547	< 0.000155	0.000155
	*10-07-2	Partial Carcass	< 0.000543	0.000543	< 0.000155	0.000155
	*10-07-3	Partial Carcass	< 0.000528	0.000528	< 0.000155	0.000155
	*10-07-4	Partial Carcass	< 0.000658	0.000658	< 0.000155	0.000155
	*10-07-5	Partial Carcass	< 0.000589	0.000589	< 0.000155	0.000155
	*10-07-6	Partial Carcass	< 0.000607	0.000607	< 0.000155	0.000155
	*4-08-6	Partial Carcass	< 0.000614	0.000614	< 0.000155	0.000155
oxychlordane						
	*10-06-1	Partial Carcass	0.00114	0.000455	0.000305	0.000121
	*10-06-2	Partial Carcass	0.000988	0.000478	0.000251	0.000121
	*10-06-3	Partial Carcass	0.00111	0.000405	0.000332	0.000121
	*10-06-4	Partial Carcass	0.00181	0.000423	0.000520	0.000121
	*10-06-5	Partial Carcass	0.00108	0.000404	0.000324	0.000121
	*10-07-1	Partial Carcass	0.000713	0.000429	0.000202	0.000121
	*10-07-2	Partial Carcass	0.000928	0.000425	0.000265	0.000121
	*10-07-3	Partial Carcass	0.00168	0.000414	0.000493	0.000121
	*10-07-4	Partial Carcass	0.00169	0.000515	0.000398	0.000121

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-07-5	Partial Carcass	0.00119	0.000462	0.000314	0.000121
	*10-07-6	Partial Carcass	< 0.000476	0.000476	< 0.000121	0.000121
	*4-08-6	Partial Carcass	0.00108	0.000481	0.000274	0.000121
p,p'-DDD						
	*10-06-1	Partial Carcass	0.00668	0.000502	0.00178	0.000134
	*10-06-2	Partial Carcass	0.00628	0.000526	0.00160	0.000134
	*10-06-3	Partial Carcass	0.00583	0.000446	0.00175	0.000134
	*10-06-4	Partial Carcass	0.0103	0.000466	0.00295	0.000134
	*10-06-5	Partial Carcass	0.00519	0.000445	0.00156	0.000134
	*10-07-1	Partial Carcass	0.00246	0.000472	0.000696	0.000134
	*10-07-2	Partial Carcass	0.00292	0.000468	0.000833	0.000134
	*10-07-3	Partial Carcass	0.00663	0.000456	0.00195	0.000134
	*10-07-4	Partial Carcass	0.0122	0.000568	0.00287	0.000134
	*10-07-5	Partial Carcass	0.00556	0.000508	0.00146	0.000134
	*10-07-6	Partial Carcass	0.00295	0.000524	0.000752	0.000134
	*4-08-6	Partial Carcass	0.00418	0.000530	0.00106	0.000134
p,p'-DDE						
	*10-06-1	Partial Carcass	0.0409	0.000539	0.0109	0.000144
	*10-06-2	Partial Carcass	0.0546	0.000565	0.0139	0.000144
	*10-06-3	Partial Carcass	0.0621	0.000479	0.0186	0.000144
	*10-06-4	Partial Carcass	0.0858	0.000501	0.0246	0.000144
	*10-06-5	Partial Carcass	0.0457	0.000478	0.0137	0.000144
	*10-07-1	Partial Carcass	0.0275	0.000508	0.00778	0.000144
	*10-07-2	Partial Carcass	0.0281	0.000503	0.00802	0.000144
	*10-07-3	Partial Carcass	0.0591	0.000490	0.0174	0.000144
	*10-07-4	Partial Carcass	0.0959	0.000610	0.0226	0.000144
	*10-07-5	Partial Carcass	0.0329	0.000546	0.00865	0.000144
	*10-07-6	Partial Carcass	0.0525	0.000563	0.0134	0.000144
	*4-08-6	Partial Carcass	0.0421	0.000570	0.0106	0.000144

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
p,p'-DDT						
	*10-06-1	Partial Carcass	0.000879	0.000623	0.000234	0.000166
	*10-06-2	Partial Carcass	0.000790	0.000653	0.000201	0.000166
	*10-06-3	Partial Carcass	0.00221	0.000554	0.000663	0.000166
	*10-06-4	Partial Carcass	0.00285	0.000579	0.000819	0.000166
	*10-06-5	Partial Carcass	0.00113	0.000552	0.000339	0.000166
	*10-07-1	Partial Carcass	0.000594	0.000586	0.000168	0.000166
	*10-07-2	Partial Carcass	0.00106	0.000581	0.000303	0.000166
	*10-07-3	Partial Carcass	0.00229	0.000566	0.000673	0.000166
	*10-07-4	Partial Carcass	0.00323	0.000704	0.000761	0.000166
	*10-07-5	Partial Carcass	0.00110	0.000631	0.000290	0.000166
	*10-07-6	Partial Carcass	< 0.000651	0.000651	< 0.000166	0.000166
	*4-08-6	Partial Carcass	< 0.000658	0.000658	< 0.000166	0.000166
pentachloro-anisole						
	*10-06-1	Partial Carcass	0.00180	0.000569	0.000481	0.000152
	*10-06-2	Partial Carcass	0.000890	0.000596	0.000226	0.000152
	*10-06-3	Partial Carcass	0.00328	0.000506	0.000982	0.000152
	*10-06-4	Partial Carcass	0.00367	0.000528	0.00105	0.000152
	*10-06-5	Partial Carcass	0.00456	0.000504	0.00137	0.000152
	*10-07-1	Partial Carcass	0.000594	0.000535	0.000168	0.000152
	*10-07-2	Partial Carcass	< 0.000531	0.000531	< 0.000152	0.000152
	*10-07-3	Partial Carcass	0.00295	0.000517	0.000865	0.000152
	*10-07-4	Partial Carcass	0.00164	0.000643	0.000386	0.000152
	*10-07-5	Partial Carcass	0.00119	0.000576	0.000314	0.000152
	*10-07-6	Partial Carcass	0.00116	0.000594	0.000296	0.000152
	*4-08-6	Partial Carcass	0.00103	0.000601	0.000261	0.000152
perylene						
	1-08-1	Partial Carcass	< 0.00273	0.00273	< 0.000645	0.000645
	1-08-2	Partial Carcass	< 0.00244	0.00244	< 0.000639	0.000639

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	1-08-3	Partial Carcass	< 0.00234	0.00234	< 0.000640	0.000640
	1-08-4	Partial Carcass	< 0.00248	0.00248	< 0.000644	0.000644
	1-08-6	Partial Carcass	< 0.00236	0.00236	< 0.000628	0.000628
phenanthrene						
	1-08-1	Partial Carcass	0.0123	0.00124	0.00290	0.000292
	1-08-2	Partial Carcass	0.0179	0.00110	0.00470	0.000289
	1-08-3	Partial Carcass	0.0161	0.00106	0.00440	0.000290
	1-08-4	Partial Carcass	0.0193	0.00112	0.00500	0.000292
	1-08-6	Partial Carcass	0.00712	0.00107	0.00190	0.000284
phytane						
	1-08-1	Partial Carcass	0.864	0.0630	0.204	0.0149
	1-08-2	Partial Carcass	0.669	0.0563	0.175	0.0148
	1-08-3	Partial Carcass	1.32	0.0540	0.362	0.0148
	1-08-4	Partial Carcass	1.65	0.0573	0.428	0.0149
	1-08-6	Partial Carcass	1.04	0.0544	0.278	0.0145
pristane						
	*1-08-1	Partial Carcass	0.993	0.0610	0.235	0.0144
	1-08-2	Partial Carcass	0.503	0.0545	0.132	0.0143
	1-08-3	Partial Carcass	0.917	0.0523	0.251	0.0143
	1-08-4	Partial Carcass	1.19	0.0555	0.308	0.0144
	1-08-6	Partial Carcass	0.788	0.0526	0.210	0.0140
pyrene						
	1-08-1	Partial Carcass	0.00254	0.00170	0.000600	0.000402
	1-08-2	Partial Carcass	0.00306	0.00152	0.000800	0.000398
	1-08-3	Partial Carcass	0.00256	0.00146	0.000700	0.000399
	1-08-4	Partial Carcass	0.00694	0.00155	0.00180	0.000401
	1-08-6	Partial Carcass	< 0.00147	0.00147	< 0.000391	0.000391
toxaphene						
	*10-06-1	Partial Carcass	< 0.0396	0.0396	< 0.0105	0.0105

Analyte	Sample Number	Sample Matrix	Dry Weight (ppm)	DL Dry Weight (ppm)	Wet Weight (ppm)	DL Wet Weight (ppm)
	*10-06-2	Partial Carcass	< 0.0415	0.0415	< 0.0105	0.0105
	*10-06-3	Partial Carcass	< 0.0352	0.0352	< 0.0105	0.0105
	*10-06-4	Partial Carcass	< 0.0367	0.0367	< 0.0105	0.0105
	*10-06-5	Partial Carcass	< 0.0351	0.0351	< 0.0105	0.0105
	*10-07-1	Partial Carcass	< 0.0372	0.0372	< 0.0105	0.0105
	*10-07-2	Partial Carcass	< 0.0369	0.0369	< 0.0105	0.0105
	*10-07-3	Partial Carcass	< 0.0359	0.0359	< 0.0105	0.0105
	*10-07-4	Partial Carcass	< 0.0447	0.0447	< 0.0105	0.0105
	*10-07-5	Partial Carcass	< 0.0401	0.0401	< 0.0105	0.0105
	*10-07-6	Partial Carcass	< 0.0413	0.0413	< 0.0105	0.0105
	*4-08-6	Partial Carcass	< 0.0418	0.0418	< 0.0105	0.0105
trans-nonachlor						
	*10-06-1	Partial Carcass	0.00857	0.000571	0.00229	0.000152
	*10-06-2	Partial Carcass	0.0135	0.000599	0.00344	0.000152
	*10-06-3	Partial Carcass	0.0240	0.000508	0.00721	0.000152
	*10-06-4	Partial Carcass	0.0280	0.000531	0.00805	0.000152
	*10-06-5	Partial Carcass	0.0130	0.000507	0.00390	0.000152
	*10-07-1	Partial Carcass	0.00154	0.000538	0.000438	0.000152
	*10-07-2	Partial Carcass	0.00768	0.000533	0.00220	0.000152
	*10-07-3	Partial Carcass	0.0366	0.000519	0.0107	0.000152
	*10-07-4	Partial Carcass	0.0371	0.000646	0.00876	0.000152
	*10-07-5	Partial Carcass	0.0156	0.000579	0.00410	0.000152
	*10-07-6	Partial Carcass	0.00222	0.000597	0.000567	0.000152
	*4-08-6	Partial Carcass	0.00981	0.000604	0.00248	0.000152

* See "Laboratory Notes" section.

5. Procedural Blanks

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
1,2,3,4,6,7,8-HpCDD					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,4,6,7,8-HpCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,4,7,8,9-HpCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,4,7,8-HxCDD					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,4,7,8-HxCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,4-Tetrachlorobenzene					
	ENV2176A	Animal Tissue	0.000700	< 0.000151	Wet
1,2,3,6,7,8-HxCDD					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,6,7,8-HxCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,7,8,9-HxCDD					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,7,8,9-HxCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,7,8-PeCDD					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,3,7,8-PeCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
1,2,4,5-Tetrachlorobenzene					
	ENV2176A	Animal Tissue	0.00130	< 0.000269	Wet
1,6,7-Trimethyl-naphthalene					
	ENV2175A	Animal Tissue	0.00230	< 0.000370	Wet
1-methylnaphthalene					
	ENV2175A	Animal Tissue	0.00380	< 0.000620	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
1-methylphenanthrene					
	ENV2175A	Animal Tissue	0.00260	< 0.000420	Wet
2,3,4,6,7,8-HxCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
2,3,4,7,8-PeCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
2,3,7,8-TCDD					
	EQ0900410-01	Water	0.000200	< 0.00000200	Wet
2,3,7,8-TCDF					
	EQ0900410-01	Water	0.000200	< 0.00000200	Wet
2,6-dimethylnaphthalene					
	ENV2175A	Animal Tissue	0.00330	< 0.000540	Wet
2-methylnaphthalene					
	ENV2175A	Animal Tissue	0.00410	< 0.000670	Wet
Aldrin					
	ENV2176A	Animal Tissue	0.000600	< 0.000122	Wet
BDE# 1					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 10					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 100					
	ENV2179A	Animal Tissue	0.00190	< 0.000144	Wet
BDE# 11					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 116					
	ENV2179A	Animal Tissue	0.00100	< 0.0000740	Wet
BDE# 118					
	ENV2179A	Animal Tissue	0.00100	< 0.0000740	Wet
BDE# 119					
	ENV2179A	Animal Tissue	0.00100	< 0.0000740	Wet
BDE# 12					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 126					

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	ENV2179A	Animal Tissue	0.00100	< 0.0000740	Wet
BDE# 13					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 138					
	ENV2179A	Animal Tissue	0.000700	< 0.0000550	Wet
BDE# 15					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 153					
	ENV2179A	Animal Tissue	0.000800	< 0.0000600	Wet
BDE# 154					
	ENV2179A	Animal Tissue	0.000900	< 0.0000680	Wet
BDE# 155					
	ENV2179A	Animal Tissue	0.000700	< 0.0000550	Wet
BDE# 166					
	ENV2179A	Animal Tissue	0.000700	< 0.0000550	Wet
BDE# 17					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 181					
	ENV2179A	Animal Tissue	0.000700	< 0.0000510	Wet
BDE# 183					
	ENV2179A	Animal Tissue	0.000700	< 0.0000510	Wet
BDE# 190					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 194					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 195					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 196					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 197					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 198/199/203/200					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
BDE# 2					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 201					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 202					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 204					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 205					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 206					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 207					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 208					
	ENV2179A	Animal Tissue	0.000500	< 0.0000390	Wet
BDE# 209					
	ENV2179A	Animal Tissue	0.00750	< 0.000575	Wet
BDE# 25					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 28					
	ENV2179A	Animal Tissue	0.00100	< 0.0000750	Wet
BDE# 3					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 30					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 32					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 33					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 35					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 37					

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 47					
	ENV2179A	Animal Tissue	0.00110	< 0.0000810	Wet
BDE# 49/71					
	ENV2179A	Animal Tissue	0.000800	< 0.0000600	Wet
BDE# 66					
	ENV2179A	Animal Tissue	0.000600	< 0.0000450	Wet
BDE# 7					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 75					
	ENV2179A	Animal Tissue	0.00110	< 0.0000810	Wet
BDE# 77					
	ENV2179A	Animal Tissue	0.00110	< 0.0000810	Wet
BDE# 8					
	ENV2179A	Animal Tissue	0.000900	< 0.0000700	Wet
BDE# 85					
	ENV2179A	Animal Tissue	0.00200	< 0.000152	Wet
BDE# 99					
	ENV2179A	Animal Tissue	0.00100	< 0.0000740	Wet
BDE-TOTAL					
	ENV2179A	Animal Tissue	0.00880	< 0.000677	Wet
BHC (Total)					
	ENV2176A	Animal Tissue	0.00170	< 0.000359	Wet
Benzo(a)anthracene					
	ENV2175A	Animal Tissue	0.00190	< 0.000310	Wet
C1-Fluoranthenes & Pyrenes					
	ENV2175A	Animal Tissue	0.00640	< 0.00105	Wet
C1-Phenanthrenes & Anthracenes					
	ENV2175A	Animal Tissue	0.00300	< 0.000490	Wet
C1-chrysenes					
	ENV2175A	Animal Tissue	0.00470	< 0.000770	Wet
C1-dibenzothiophenes					
	ENV2175A	Animal Tissue	0.00340	< 0.000560	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
C1-fluorenes					
	ENV2175A	Animal Tissue	0.00410	< 0.000680	Wet
C1-naphthalenes					
	ENV2175A	Animal Tissue	0.00790	< 0.00129	Wet
C2-Phenanthrenes & Anthracenes					
	ENV2175A	Animal Tissue	0.00300	< 0.000490	Wet
C2-chrysenes					
	ENV2175A	Animal Tissue	0.00470	< 0.000770	Wet
C2-dibenzothiophenes					
	ENV2175A	Animal Tissue	0.00340	< 0.000560	Wet
C2-fluorenes					
	ENV2175A	Animal Tissue	0.00410	< 0.000680	Wet
C2-naphthalenes					
	ENV2175A	Animal Tissue	0.0100	< 0.00164	Wet
C3-Phenanthrenes & Anthracenes					
	ENV2175A	Animal Tissue	0.00300	< 0.000490	Wet
C3-chrysenes					
	ENV2175A	Animal Tissue	0.00470	< 0.000770	Wet
C3-dibenzothiophenes					
	ENV2175A	Animal Tissue	0.00340	< 0.000560	Wet
C3-fluorenes					
	ENV2175A	Animal Tissue	0.00410	< 0.000680	Wet
C3-naphthalenes					
	ENV2175A	Animal Tissue	0.0100	< 0.00164	Wet
C4-Phenanthrenes & Anthracenes					
	ENV2175A	Animal Tissue	0.00300	< 0.000490	Wet
C4-chrysenes					
	ENV2175A	Animal Tissue	0.00470	< 0.000770	Wet
C4-naphthalenes					
	ENV2175A	Animal Tissue	0.0100	< 0.00164	Wet
Cl4-PCDD					
	EQ0900410-01	Water	0.000200	< 0.00000200	Wet
Cl4-PCDF					

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900410-01	Water	0.000200	< 0.00000200	Wet
Cl5-PCDD					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
Cl5-PCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
Cl6-PCDD					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
Cl6-PCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
Cl7-PCDD					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
Cl7-PCDF					
	EQ0900410-01	Water	0.000200	< 0.0000100	Wet
DDMU					
	ENV2176A	Animal Tissue	0.000600	< 0.000128	Wet
Dibenz(a,h)anthracene					
	ENV2175A	Animal Tissue	0.00210	< 0.000350	Wet
HCB					
	ENV2176A	Animal Tissue	0.00110	< 0.000226	Wet
Heptachlor					
	ENV2176A	Animal Tissue	0.000600	< 0.000133	Wet
OCDD					
	EQ0900410-01	Water	0.000200	< 0.0000200	Wet
OCDF					
	EQ0900410-01	Water	0.000200	< 0.0000200	Wet
PCB# 1					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 10					
	EQ0900409-01	Water	0.000200	< 0.0000100	Wet
	EQ0900415-01	Water	0.0000500	< 0.0000000500	Wet
PCB# 103					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 104					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 105					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 106					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 107					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 108/124					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 11					
	EQ0900409-01	Water	0.000200	0.000581	Wet
	EQ0900415-01	Water	0.000832	0.000000832	Wet
PCB# 110/115					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 111					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 112					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 114					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 117					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 118					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 12/13					
	EQ0900409-01	Water	0.000200	< 0.0000200	Wet
	EQ0900415-01	Water	0.000100	< 0.000000100	Wet
PCB# 120					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 121					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 122					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 123					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 126					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 127					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 128/166					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 129/138/163					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 130					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 131					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 132					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 133					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 134					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 135/151					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 136					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 137					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 139/140					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 14					
	EQ0900409-01	Water	0.000200	< 0.0000200	Wet
	EQ0900415-01	Water	0.000100	< 0.000000100	Wet
PCB# 141					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 142					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 143					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 144					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 145					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 146					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 147/149					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 148					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 15					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 150					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 152					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 153/168					
	EQ0900409-01	Water	0.000200	0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 154					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 155					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 156/157					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 158					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 159					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 16					
	EQ0900409-01	Water	0.000200	0.0000216	Wet
	EQ0900415-01	Water	0.000100	< 0.000000100	Wet
PCB# 160					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 161					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 162					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 164					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 165					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 167					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 169					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 17					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 170					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 171/173					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 172					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 174					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 175					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 176					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 177					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 178					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 179					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 18/30					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 180/193					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 181					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 182					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 183					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 184					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 185					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 186					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 187					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 188					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 189					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 19					
	EQ0900409-01	Water	0.000200	< 0.0000200	Wet
	EQ0900415-01	Water	0.000100	< 0.000000100	Wet
PCB# 190					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 191					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 192					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 194					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 195					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 196					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 197					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 198/199					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 2					
	EQ0900409-01	Water	0.000200	< 0.00000200	Wet
	EQ0900415-01	Water	0.0000100	< 0.0000000100	Wet
PCB# 20/28					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 200					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 201					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 202					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 203					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 204					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 205					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 206					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 207					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 208					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 209					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 21/33					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 22					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 23					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 24					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 25					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 26/29					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 27					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 3					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 31					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 32					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 34					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 35					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 36					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 37					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 38					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 39					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 4					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 40/41/70					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 42					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 43/73					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 44/47/65					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 45/51					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 46					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 48					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 49/69					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 5					
	EQ0900409-01	Water	0.000200	< 0.0000100	Wet
	EQ0900415-01	Water	0.0000500	< 0.0000000500	Wet
PCB# 50/53					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 52					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 54					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 55					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 56					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 57					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 58					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 59/62/75					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 6					
	EQ0900409-01	Water	0.000200	< 0.0000100	Wet
	EQ0900415-01	Water	0.0000500	< 0.0000000500	Wet
PCB# 60					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 63					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 64					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 66					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 67					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 68					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 7					
	EQ0900409-01	Water	0.000200	< 0.0000100	Wet
	EQ0900415-01	Water	0.0000500	< 0.0000000500	Wet
PCB# 70/61/74/76					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 72					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 77					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 78					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 79					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 8					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 80					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 81					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 82					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 83/99					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 84					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 85/116					
	EQ0900409-01	Water	0.000200	< 0.0000400	Wet
	EQ0900415-01	Water	0.000200	< 0.000000200	Wet
PCB# 86/87/97/109/119/125					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 88/91					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 89					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 9					
	EQ0900409-01	Water	0.000200	< 0.0000100	Wet
	EQ0900415-01	Water	0.0000500	< 0.0000000500	Wet
PCB# 90/101/113					
	EQ0900409-01	Water	0.000200	< 0.000200	Wet
	EQ0900415-01	Water	0.00100	< 0.00000100	Wet
PCB# 92					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 94					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 95					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 96					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 98/100					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB# 98/102					
	EQ0900409-01	Water	0.000200	< 0.000100	Wet
	EQ0900415-01	Water	0.000500	< 0.000000500	Wet
PCB-TOTAL					
	EQ0900409-01	Water	0.000200	0.00240	Wet
	EQ0900415-01	Water	0.00386	0.00000386	Wet
Pentachlorobenzene					
	ENV2176A	Animal Tissue	0.000500	< 0.000111	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
Total DDT's					
	ENV2176A	Animal Tissue	0.00390	< 0.000822	Wet
acenaphthalene					
	ENV2175A	Animal Tissue	0.00200	< 0.000330	Wet
acenaphthene					
	ENV2175A	Animal Tissue	0.00210	< 0.000340	Wet
alpha BHC					
	ENV2176A	Animal Tissue	0.00100	< 0.000209	Wet
alpha chlordane					
	ENV2176A	Animal Tissue	0.000900	< 0.000189	Wet
anthracene					
	ENV2175A	Animal Tissue	0.00120	< 0.000200	Wet
benzo(a)pyrene					
	ENV2175A	Animal Tissue	0.00230	< 0.000370	Wet
benzo(b)fluoranthene					
	ENV2175A	Animal Tissue	0.00160	< 0.000270	Wet
benzo(e)pyrene					
	ENV2175A	Animal Tissue	0.00240	< 0.000390	Wet
benzo(g,h,i)perylene					
	ENV2175A	Animal Tissue	0.00270	< 0.000440	Wet
benzo(k)fluoranthene					
	ENV2175A	Animal Tissue	0.00210	< 0.000340	Wet
beta BHC					
	ENV2176A	Animal Tissue	0.00110	< 0.000224	Wet
biphenyl					
	ENV2175A	Animal Tissue	0.00370	< 0.000610	Wet
chlorpyrifos					
	ENV2176A	Animal Tissue	0.00130	< 0.000277	Wet
chrysene					
	ENV2175A	Animal Tissue	0.00240	< 0.000390	Wet
cis-nonachlor					
	ENV2176A	Animal Tissue	0.000700	< 0.000140	Wet
delta BHC					

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	ENV2176A	Animal Tissue	0.000500	< 0.000109	Wet
dibenzothiophene					
	ENV2175A	Animal Tissue	0.00170	< 0.000280	Wet
dieldrin					
	ENV2176A	Animal Tissue	0.000900	< 0.000189	Wet
endosulfan I					
	ENV2176A	Animal Tissue	0.000700	< 0.000152	Wet
endosulfan II					
	ENV2176A	Animal Tissue	0.000700	< 0.000148	Wet
endosulfan sulfate					
	ENV2176A	Animal Tissue	0.000700	< 0.000154	Wet
endrin					
	ENV2176A	Animal Tissue	0.00100	< 0.000202	Wet
fluoranthene					
	ENV2175A	Animal Tissue	0.00150	< 0.000250	Wet
fluorene					
	ENV2175A	Animal Tissue	0.00210	< 0.000340	Wet
gamma BHC					
	ENV2176A	Animal Tissue	0.000400	< 0.0000940	Wet
gamma chlordane					
	ENV2176A	Animal Tissue	0.000700	< 0.000155	Wet
heptachlor epoxide					
	ENV2176A	Animal Tissue	0.000800	< 0.000160	Wet
indeno(1,2,3-cd)pyrene					
	ENV2175A	Animal Tissue	0.00350	< 0.000570	Wet
mirex					
	ENV2176A	Animal Tissue	0.000600	< 0.000123	Wet
n-decane					
	ENV2175A	Animal Tissue	0.0649	< 0.0106	Wet
n-docosane					
	ENV2175A	Animal Tissue	0.0821	< 0.0135	Wet
n-dodecane					
	ENV2175A	Animal Tissue	0.0475	< 0.00779	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
n-dotriacontane					
	ENV2175A	Animal Tissue	0.0748	< 0.0123	Wet
n-eicosane					
	ENV2175A	Animal Tissue	0.0836	< 0.0137	Wet
n-heneicosane					
	ENV2175A	Animal Tissue	0.0879	< 0.0144	Wet
n-hentriacontane					
	ENV2175A	Animal Tissue	0.0764	< 0.0125	Wet
n-heptacosane					
	ENV2175A	Animal Tissue	0.0728	< 0.0119	Wet
n-heptadecane					
	ENV2175A	Animal Tissue	0.0669	< 0.0110	Wet
n-hexacosane					
	ENV2175A	Animal Tissue	0.0746	< 0.0122	Wet
n-hexadecane					
	ENV2175A	Animal Tissue	0.0822	< 0.0135	Wet
n-nonacosane					
	ENV2175A	Animal Tissue	0.0669	< 0.0110	Wet
n-nonadecane					
	ENV2175A	Animal Tissue	0.0685	< 0.0112	Wet
n-octacosane					
	ENV2175A	Animal Tissue	0.0723	< 0.0118	Wet
n-octadecane					
	ENV2175A	Animal Tissue	0.0806	< 0.0132	Wet
n-pentacosane					
	ENV2175A	Animal Tissue	0.0843	< 0.0138	Wet
n-pentadecane					
	ENV2175A	Animal Tissue	0.104	< 0.0170	Wet
n-tetracosane					
	ENV2175A	Animal Tissue	0.0663	< 0.0109	Wet
n-tetradecane					
	ENV2175A	Animal Tissue	0.0824	< 0.0135	Wet
n-tetratriacontane					

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
	ENV2175A	Animal Tissue	0.0732	< 0.0120	Wet
n-triacontane					
	ENV2175A	Animal Tissue	0.0709	< 0.0116	Wet
n-tricosane					
	ENV2175A	Animal Tissue	0.0798	< 0.0131	Wet
n-tridecane					
	ENV2175A	Animal Tissue	0.0823	< 0.0135	Wet
n-tritriacontane					
	ENV2175A	Animal Tissue	0.0636	< 0.0104	Wet
n-undecane					
	ENV2175A	Animal Tissue	0.0718	< 0.0118	Wet
naphthalene					
	ENV2175A	Animal Tissue	0.00500	< 0.000820	Wet
o,p'-DDD					
	ENV2176A	Animal Tissue	0.00100	< 0.000206	Wet
o,p'-DDE					
	ENV2176A	Animal Tissue	0.000600	< 0.000119	Wet
o,p'-DDT					
	ENV2176A	Animal Tissue	0.000700	< 0.000155	Wet
oxychlordane					
	ENV2176A	Animal Tissue	0.000600	< 0.000121	Wet
p,p'-DDD					
	ENV2176A	Animal Tissue	0.000600	< 0.000134	Wet
p,p'-DDE					
	ENV2176A	Animal Tissue	0.000700	< 0.000144	Wet
p,p'-DDT					
	ENV2176A	Animal Tissue	0.000800	< 0.000166	Wet
pentachloro-anisole					
	ENV2176A	Animal Tissue	0.000700	< 0.000152	Wet
perylene					
	ENV2175A	Animal Tissue	0.00550	0.000900	Wet
phenanthrene					
	ENV2175A	Animal Tissue	0.00150	< 0.000240	Wet

Analyte	Lab Sample Number	Lab Sample Matrix	Result Total UG	** BEC (ppm/%)	Basis
phytane					
	ENV2175A	Animal Tissue	0.0746	< 0.0122	Wet
pristane					
	ENV2175A	Animal Tissue	0.0723	< 0.0118	Wet
pyrene					
	ENV2175A	Animal Tissue	0.00200	< 0.000330	Wet
toxaphene					
	ENV2176A	Animal Tissue	0.0500	< 0.0105	Wet
trans-nonachlor					
	ENV2176A	Animal Tissue	0.000700	< 0.000152	Wet

** Blank Equivalent Concentration

6. Duplicates

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
% Lipid								
	1-08-2		Partial Carcass	Percent	4.30	4.33	4.31	0.700
	10-07-5		Partial Carcass	Percent	5.77	5.84	5.80	1.21
	4-08-4		Partial Carcass	Percent	5.49	6.23	5.86	12.6
% Moisture								
	1-08-2		Partial Carcass	Percent	73.8	73.8	73.8	0.000
	10-07-5		Partial Carcass	Percent	73.7	73.7	73.7	0.000
	4-08-4		Partial Carcass	Percent	73.3	73.3	73.3	0.000
1,2,3,4,6,7,8-HpCDD								
	EQ0900410-02	SD	Water	Wet	0.000206	0.000214	0.000210	3.81
1,2,3,4,6,7,8-HpCDF								
	EQ0900410-02	SD	Water	Wet	0.000204	0.000205	0.000204	0.490
1,2,3,4,7,8,9-HpCDF								
	EQ0900410-02	SD	Water	Wet	0.000194	0.000197	0.000195	1.53
1,2,3,4,7,8-HxCDD								
	EQ0900410-02	SD	Water	Wet	0.000180	0.000186	0.000183	3.28
1,2,3,4,7,8-HxCDF								
	EQ0900410-02	SD	Water	Wet	0.000212	0.000212	0.000212	0.000
1,2,3,4-Tetrachlorobenzene								
	10-07-5		Partial Carcass	Wet	< 0.000151	< 0.000151	0.0000755	0.000

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
1,2,3,6,7,8-HxCDD								
	EQ0900410-02	SD	Water	Wet	0.000224	0.000236	0.000230	5.22
1,2,3,6,7,8-HxCDF								
	EQ0900410-02	SD	Water	Wet	0.000204	0.000213	0.000208	4.32
1,2,3,7,8,9-HxCDD								
	EQ0900410-02	SD	Water	Wet	0.000188	0.000189	0.000188	0.530
1,2,3,7,8,9-HxCDF								
	EQ0900410-02	SD	Water	Wet	0.000189	0.000195	0.000192	3.12
1,2,3,7,8-PeCDD								
	EQ0900410-02	SD	Water	Wet	0.000199	0.000200	0.000200	0.500
1,2,3,7,8-PeCDF								
	EQ0900410-02	SD	Water	Wet	0.000201	0.000205	0.000203	1.97
1,2,4,5-Tetrachlorobenzene								
	10-07-5		Partial Carcass	Wet	< 0.000269	< 0.000269	0.000134	0.000
1,6,7-Trimethyl-naphthalene								
	1-08-2		Partial Carcass	Wet	< 0.000446	< 0.000450	0.000224	0.890
1-methylnaphthalene								
	1-08-2		Partial Carcass	Wet	0.00370	0.00340	0.00355	8.45
1-methylphenanthrene								
	1-08-2		Partial Carcass	Wet	0.00780	0.00770	0.00775	1.29
2,3,4,6,7,8-HxCDF								
	EQ0900410-02	SD	Water	Wet	0.000194	0.000201	0.000198	3.54
2,3,4,7,8-PeCDF								

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
	EQ0900410-02	SD	Water	Wet	0.000202	0.000210	0.000206	3.88
2,3,7,8-TCDD								
	EQ0900410-02	SD	Water	Wet	0.0000402	0.0000405	0.0000404	0.740
2,3,7,8-TCDF								
	EQ0900410-02	SD	Water	Wet	0.0000400	0.0000414	0.0000407	3.44
2,6-dimethylnaphthalene								
	1-08-2		Partial Carcass	Wet	0.00100	0.00120	0.00110	18.2
2-methylnaphthalene								
	1-08-2		Partial Carcass	Wet	0.00680	0.00650	0.00665	4.51
Aldrin								
	10-07-5		Partial Carcass	Wet	< 0.000122	< 0.000122	0.0000610	0.000
BDE# 1								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 10								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 100								
	4-08-4		Partial Carcass	Wet	0.0161	0.0154	0.0158	4.44
BDE# 11								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 116								
	4-08-4		Partial Carcass	Wet	< 0.000192	< 0.000187	0.0000948	2.64
BDE# 118								
	4-08-4		Partial	Wet	< 0.000192	< 0.000187	0.0000948	2.64

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
			Carcass					
BDE# 119								
	4-08-4		Partial Carcass	Wet	0.000800	0.000700	0.000750	13.3
BDE# 12								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 126								
	4-08-4		Partial Carcass	Wet	0.000300	0.000300	0.000300	0.000
BDE# 13								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 138								
	4-08-4		Partial Carcass	Wet	< 0.000143	< 0.000139	0.0000705	2.84
BDE# 15								
	4-08-4		Partial Carcass	Wet	0.000200	0.000200	0.000200	0.000
BDE# 153								
	4-08-4		Partial Carcass	Wet	0.00220	0.00220	0.00220	0.000
BDE# 154								
	4-08-4		Partial Carcass	Wet	0.00490	0.00500	0.00495	2.02
BDE# 155								
	4-08-4		Partial Carcass	Wet	< 0.000143	< 0.000139	0.0000705	2.84
BDE# 166								
	4-08-4		Partial Carcass	Wet	< 0.000143	< 0.000139	0.0000705	2.84
BDE# 17								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
BDE# 181								
	4-08-4		Partial Carcass	Wet	< 0.000133	< 0.000129	0.0000655	3.05
BDE# 183								
	4-08-4		Partial Carcass	Wet	0.000300	0.000300	0.000300	0.000
BDE# 190								
	4-08-4		Partial Carcass	Wet	0.000200	0.000200	0.000200	0.000
BDE# 194								
	4-08-4		Partial Carcass	Wet	< 0.000101	< 0.0000980	0.0000498	3.02
BDE# 195								
	4-08-4		Partial Carcass	Wet	< 0.000101	< 0.0000980	0.0000498	3.02
BDE# 196								
	4-08-4		Partial Carcass	Wet	< 0.000101	< 0.0000980	0.0000498	3.02
BDE# 197								
	4-08-4		Partial Carcass	Wet	< 0.000101	< 0.0000980	0.0000498	3.02
BDE# 198/199/203/200								
	4-08-4		Partial Carcass	Wet	< 0.000101	< 0.0000980	0.0000498	3.02
BDE# 2								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 201								
	4-08-4		Partial Carcass	Wet	< 0.000101	< 0.0000980	0.0000498	3.02
BDE# 202								
	4-08-4		Partial Carcass	Wet	< 0.000101	< 0.0000980	0.0000498	3.02
BDE# 204								

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
	4-08-4		Partial Carcass	Wet	< 0.000101	< 0.0000980	0.0000498	3.02
BDE# 205								
	4-08-4		Partial Carcass	Wet	0.000600	0.000700	0.000650	15.4
BDE# 206								
	4-08-4		Partial Carcass	Wet	0.000600	0.000500	0.000550	18.2
BDE# 207								
	4-08-4		Partial Carcass	Wet	0.000700	0.000600	0.000650	15.4
BDE# 208								
	4-08-4		Partial Carcass	Wet	0.000400	0.000500	0.000450	22.2
BDE# 209								
	4-08-4		Partial Carcass	Wet	< 0.00149	< 0.00145	0.000737	2.78
BDE# 25								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 28								
	4-08-4		Partial Carcass	Wet	0.00250	0.00250	0.00250	0.000
BDE# 3								
	4-08-4		Partial Carcass	Wet	0.000700	0.000800	0.000750	13.3
BDE# 30								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 32								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 33								
	4-08-4		Partial	Wet	< 0.000182	< 0.000177	0.0000898	2.79

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
			Carcass					
BDE# 35								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 37								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 47								
	4-08-4		Partial Carcass	Wet	0.129	0.126	0.128	2.35
BDE# 49/71								
	4-08-4		Partial Carcass	Wet	0.00320	0.00330	0.00325	3.08
BDE# 66								
	4-08-4		Partial Carcass	Wet	< 0.000116	< 0.000113	0.0000572	2.62
BDE# 7								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 75								
	4-08-4		Partial Carcass	Wet	< 0.000212	< 0.000206	0.000104	2.87
BDE# 77								
	4-08-4		Partial Carcass	Wet	0.000500	0.000500	0.000500	0.000
BDE# 8								
	4-08-4		Partial Carcass	Wet	< 0.000182	< 0.000177	0.0000898	2.79
BDE# 85								
	4-08-4		Partial Carcass	Wet	0.000400	< 0.000385	0.000296	70.0
BDE# 99								
	4-08-4		Partial Carcass	Wet	< 0.000192	< 0.000187	0.0000948	2.64

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
BDE-TOTAL								
	4-08-4		Partial Carcass	Wet	0.164	0.160	0.162	2.41
BHC (Total)								
	10-07-5		Partial Carcass	Wet	< 0.000359	< 0.000359	0.000180	0.000
Benzo(a)anthracene								
	1-08-2		Partial Carcass	Wet	< 0.000374	< 0.000377	0.000188	0.800
C1-Fluoranthenes & Pyrenes								
	1-08-2		Partial Carcass	Wet	< 0.00127	< 0.00128	0.000636	0.790
C1-Phenanthrenes & Anthracenes								
	1-08-2		Partial Carcass	Wet	0.00790	0.00780	0.00785	1.27
C1-chrysenes								
	1-08-2		Partial Carcass	Wet	< 0.000928	< 0.000936	0.000466	0.860
C1-dibenzothiophenes								
	1-08-2		Partial Carcass	Wet	< 0.000675	< 0.000681	0.000339	0.880
C1-fluorenes								
	1-08-2		Partial Carcass	Wet	0.00260	0.00240	0.00250	8.00
C1-naphthalenes								
	1-08-2		Partial Carcass	Wet	0.00680	0.00640	0.00660	6.06
C2-Phenanthrenes & Anthracenes								
	1-08-2		Partial Carcass	Wet	< 0.000591	< 0.000596	0.000297	0.840
C2-chrysenes								
	1-08-2		Partial Carcass	Wet	< 0.000928	< 0.000936	0.000466	0.860
C2-dibenzothiophenes								

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
	1-08-2		Partial Carcass	Wet	< 0.000675	< 0.000681	0.000339	0.880
C2-fluorenes								
	1-08-2		Partial Carcass	Wet	< 0.000820	< 0.000826	0.000412	0.730
C2-naphthalenes								
	1-08-2		Partial Carcass	Wet	0.00370	0.00330	0.00350	11.4
C3-Phenanthrenes & Anthracenes								
	1-08-2		Partial Carcass	Wet	< 0.000591	< 0.000596	0.000297	0.840
C3-chrysenes								
	1-08-2		Partial Carcass	Wet	< 0.000928	< 0.000936	0.000466	0.860
C3-dibenzothiophenes								
	1-08-2		Partial Carcass	Wet	< 0.000675	< 0.000681	0.000339	0.880
C3-fluorenes								
	1-08-2		Partial Carcass	Wet	< 0.000820	< 0.000826	0.000412	0.730
C3-naphthalenes								
	1-08-2		Partial Carcass	Wet	< 0.00198	< 0.00199	0.000992	0.810
C4-Phenanthrenes & Anthracenes								
	1-08-2		Partial Carcass	Wet	< 0.000591	< 0.000596	0.000297	0.840
C4-chrysenes								
	1-08-2		Partial Carcass	Wet	< 0.000928	< 0.000936	0.000466	0.860
C4-naphthalenes								
	1-08-2		Partial Carcass	Wet	< 0.00198	< 0.00199	0.000992	0.810
DDMU								
	10-07-5		Partial	Wet	0.000340	0.000372	0.000356	8.99

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
			Carcass					
Dibenz(a,h)anthracene								
	1-08-2		Partial Carcass	Wet	< 0.000422	< 0.000425	0.000212	0.710
HCB								
	10-07-5		Partial Carcass	Wet	< 0.000226	< 0.000226	0.000113	0.000
Heptachlor								
	10-07-5		Partial Carcass	Wet	< 0.000133	< 0.000133	0.0000665	0.000
OCDD								
	EQ0900410-02	SD	Water	Wet	0.000464	0.000439	0.000451	5.54
OCDF								
	EQ0900410-02	SD	Water	Wet	0.000467	0.000468	0.000468	0.210
PCB# 1								
	EQ0900409-02	SD	Water	Wet	0.000185	0.000193	0.000189	4.23
	EQ0900415-02	SD	Water	Wet	0.000000906	0.000000937	0.000000922	3.36
PCB# 104								
	EQ0900409-02	SD	Water	Wet	0.000181	0.000196	0.000188	7.96
	EQ0900415-02	SD	Water	Wet	0.000000940	0.000000973	0.000000956	3.45
PCB# 105								
	EQ0900409-02	SD	Water	Wet	0.000227	0.000227	0.000227	0.000
	EQ0900415-02	SD	Water	Wet	0.00000102	0.00000113	0.00000107	10.2
PCB# 114								
	EQ0900409-02	SD	Water	Wet	0.000188	0.000206	0.000197	9.14

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
	EQ0900415-02	SD	Water	Wet	0.000000880	0.000000964	0.000000922	9.11
PCB# 118								
	EQ0900409-02	SD	Water	Wet	0.000283	0.000263	0.000273	7.33
	EQ0900415-02	SD	Water	Wet	0.00000114	0.00000122	0.00000118	6.78
PCB# 123								
	EQ0900409-02	SD	Water	Wet	0.000184	0.000206	0.000195	11.3
	EQ0900415-02	SD	Water	Wet	0.000000870	0.000000950	0.000000910	8.79
PCB# 126								
	EQ0900409-02	SD	Water	Wet	0.000180	0.000198	0.000189	9.52
	EQ0900415-02	SD	Water	Wet	0.000000853	0.000000921	0.000000887	7.67
PCB# 15								
	EQ0900409-02	SD	Water	Wet	0.000204	0.000215	0.000210	5.25
	EQ0900415-02	SD	Water	Wet	0.00000100	0.00000107	0.00000103	6.76
PCB# 155								
	EQ0900409-02	SD	Water	Wet	< 0.000200	0.000212	0.000156	71.8
	EQ0900415-02	SD	Water	Wet	< 0.00000100	< 0.00000100	0.000000500	0.000
PCB# 156/157								
	EQ0900409-02	SD	Water	Wet	0.000411	0.000433	0.000422	5.21
	EQ0900415-02	SD	Water	Wet	0.00000185	0.00000202	0.00000194	8.79
PCB# 167								
	EQ0900409-02	SD	Water	Wet	0.000198	0.000212	0.000205	6.83

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
	EQ0900415-02	SD	Water	Wet	0.000000932	0.00000102	0.000000976	9.02
PCB# 169								
	EQ0900409-02	SD	Water	Wet	0.000195	0.000220	0.000208	12.0
	EQ0900415-02	SD	Water	Wet	0.000000947	0.00000104	0.000000993	9.36
PCB# 188								
	EQ0900409-02	SD	Water	Wet	0.000185	0.000206	0.000195	10.7
	EQ0900415-02	SD	Water	Wet	0.000000876	0.000000927	0.000000902	5.66
PCB# 189								
	EQ0900409-02	SD	Water	Wet	0.000207	0.000225	0.000216	8.33
	EQ0900415-02	SD	Water	Wet	0.000000965	0.00000104	0.00000100	7.48
PCB# 19								
	EQ0900409-02	SD	Water	Wet	0.000172	0.000192	0.000182	11.0
	EQ0900415-02	SD	Water	Wet	0.000000956	0.000000958	0.000000957	0.210
PCB# 202								
	EQ0900409-02	SD	Water	Wet	< 0.000200	0.000221	0.000160	75.4
	EQ0900415-02	SD	Water	Wet	< 0.00000100	0.00000107	0.000000785	72.6
PCB# 205								
	EQ0900409-02	SD	Water	Wet	< 0.000200	0.000210	0.000155	71.0
	EQ0900415-02	SD	Water	Wet	< 0.00000100	< 0.00000100	0.000000500	0.000
PCB# 206								
	EQ0900409-02	SD	Water	Wet	0.000220	0.000217	0.000218	1.37

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
	EQ0900415-02	SD	Water	Wet	< 0.00000100	0.00000105	0.000000775	71.0
PCB# 208								
	EQ0900409-02	SD	Water	Wet	0.000208	0.000220	0.000214	5.61
	EQ0900415-02	SD	Water	Wet	< 0.00000100	0.00000103	0.000000765	69.3
PCB# 209								
	EQ0900409-02	SD	Water	Wet	0.000180	0.000192	0.000186	6.45
	EQ0900415-02	SD	Water	Wet	0.000000930	0.000000993	0.000000962	6.55
PCB# 3								
	EQ0900409-02	SD	Water	Wet	0.000194	0.000204	0.000199	5.03
	EQ0900415-02	SD	Water	Wet	0.000000913	0.000000952	0.000000932	4.18
PCB# 37								
	EQ0900409-02	SD	Water	Wet	0.000199	0.000210	0.000204	5.38
	EQ0900415-02	SD	Water	Wet	0.000000950	0.00000105	0.00000100	10.0
PCB# 4								
	EQ0900409-02	SD	Water	Wet	0.000190	0.000195	0.000193	2.60
	EQ0900415-02	SD	Water	Wet	0.000000928	0.00000101	0.000000969	8.46
PCB# 54								
	EQ0900409-02	SD	Water	Wet	0.000181	0.000206	0.000194	12.9
	EQ0900415-02	SD	Water	Wet	0.000000881	0.000000970	0.000000926	9.62
PCB# 77								
	EQ0900409-02	SD	Water	Wet	0.000198	0.000213	0.000206	7.30

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
	EQ0900415-02	SD	Water	Wet	0.000000936	0.00000101	0.000000973	7.61
PCB# 81								
	EQ0900409-02	SD	Water	Wet	0.000188	0.000205	0.000196	8.65
	EQ0900415-02	SD	Water	Wet	0.000000882	0.000000976	0.000000929	10.1
Pentachlorobenzene								
	10-07-5		Partial Carcass	Wet	0.00249	0.00257	0.00253	3.17
Total DDT's								
	10-07-5		Partial Carcass	Wet	0.0115	0.0121	0.0118	5.33
acenaphthalene								
	1-08-2		Partial Carcass	Wet	0.000400	< 0.000401	0.000300	66.4
acenaphthene								
	1-08-2		Partial Carcass	Wet	< 0.000410	< 0.000413	0.000206	0.730
alpha BHC								
	10-07-5		Partial Carcass	Wet	< 0.000209	< 0.000209	0.000104	0.000
alpha chlordane								
	10-07-5		Partial Carcass	Wet	0.00323	0.00325	0.00324	0.830
anthracene								
	1-08-2		Partial Carcass	Wet	0.000300	0.000300	0.000300	0.000
benzo(a)pyrene								
	1-08-2		Partial Carcass	Wet	< 0.000446	< 0.000450	0.000224	0.890
benzo(b)fluoranthene								
	1-08-2		Partial Carcass	Wet	0.000400	0.000400	0.000400	0.000

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
benzo(e)pyrene								
	1-08-2		Partial Carcass	Wet	< 0.000470	< 0.000474	0.000236	0.850
benzo(g,h,i)perylene								
	1-08-2		Partial Carcass	Wet	< 0.000530	< 0.000535	0.000266	0.940
benzo(k)fluoranthene								
	1-08-2		Partial Carcass	Wet	< 0.000410	< 0.000413	0.000206	0.730
beta BHC								
	10-07-5		Partial Carcass	Wet	< 0.000224	< 0.000224	0.000112	0.000
biphenyl								
	1-08-2		Partial Carcass	Wet	0.00180	0.00280	0.00230	43.5
chlorpyrifos								
	10-07-5		Partial Carcass	Wet	< 0.000277	< 0.000277	0.000138	0.000
chrysene								
	1-08-2		Partial Carcass	Wet	0.000500	0.000500	0.000500	0.000
cis-nonachlor								
	10-07-5		Partial Carcass	Wet	0.00174	0.00183	0.00178	4.93
delta BHC								
	10-07-5		Partial Carcass	Wet	< 0.000109	< 0.000109	0.0000545	0.000
dibenzothiophene								
	1-08-2		Partial Carcass	Wet	0.000400	0.000400	0.000400	0.000
dieldrin								
	10-07-5		Partial Carcass	Wet	0.00137	0.00144	0.00140	5.07
endosulfan I								

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
	10-07-5		Partial Carcass	Wet	0.00214	0.00223	0.00219	3.98
endosulfan II								
	10-07-5		Partial Carcass	Wet	< 0.000148	< 0.000148	0.0000740	0.000
endosulfan sulfate								
	10-07-5		Partial Carcass	Wet	0.00198	0.00193	0.00196	2.71
endrin								
	10-07-5		Partial Carcass	Wet	< 0.000202	< 0.000202	0.000101	0.000
fluoranthene								
	1-08-2		Partial Carcass	Wet	0.00180	0.00160	0.00170	11.8
fluorene								
	1-08-2		Partial Carcass	Wet	0.00150	0.00160	0.00155	6.45
gamma BHC								
	10-07-5		Partial Carcass	Wet	< 0.0000940	< 0.0000940	0.0000470	0.000
gamma chlordane								
	10-07-5		Partial Carcass	Wet	0.00158	0.00159	0.00159	0.380
heptachlor epoxide								
	10-07-5		Partial Carcass	Wet	0.000248	0.000185	0.000216	29.1
indeno(1,2,3-cd)pyrene								
	1-08-2		Partial Carcass	Wet	< 0.000687	< 0.000693	0.000345	0.870
mirex								
	10-07-5		Partial Carcass	Wet	< 0.000123	< 0.000123	0.0000615	0.000
n-decane								
	1-08-2		Partial	Wet	0.0479	0.0489	0.0484	1.89

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
			Carcass					
n-docosane								
	1-08-2		Partial Carcass	Wet	< 0.0162	< 0.0164	0.00814	0.810
n-dodecane								
	1-08-2		Partial Carcass	Wet	0.0327	0.0303	0.0315	7.52
n-dotriacontane								
	1-08-2		Partial Carcass	Wet	< 0.0148	< 0.0149	0.00742	0.810
n-eicosane								
	1-08-2		Partial Carcass	Wet	< 0.0165	< 0.0167	0.00830	0.800
n-heneicosane								
	1-08-2		Partial Carcass	Wet	< 0.0174	< 0.0175	0.00872	0.810
n-hentriacontane								
	1-08-2		Partial Carcass	Wet	< 0.0151	< 0.0152	0.00758	0.810
n-heptacosane								
	1-08-2		Partial Carcass	Wet	0.102	0.0971	0.0994	4.60
n-heptadecane								
	1-08-2		Partial Carcass	Wet	6.49	6.07	6.28	6.68
n-hexacosane								
	1-08-2		Partial Carcass	Wet	0.0907	0.0954	0.0931	5.04
n-hexadecane								
	1-08-2		Partial Carcass	Wet	0.337	0.315	0.326	6.77
n-nonacosane								
	1-08-2		Partial Carcass	Wet	< 0.0132	< 0.0133	0.00663	0.810

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
n-nonadecane								
	1-08-2		Partial Carcass	Wet	0.419	0.412	0.416	1.81
n-octacosane								
	1-08-2		Partial Carcass	Wet	< 0.0143	< 0.0144	0.00717	0.800
n-octadecane								
	1-08-2		Partial Carcass	Wet	3.36	3.09	3.22	8.22
n-pentacosane								
	1-08-2		Partial Carcass	Wet	0.327	0.352	0.340	7.35
n-pentadecane								
	1-08-2		Partial Carcass	Wet	5.61	5.17	5.39	8.18
n-tetracosane								
	1-08-2		Partial Carcass	Wet	0.211	0.216	0.213	1.91
n-tetradecane								
	1-08-2		Partial Carcass	Wet	0.132	0.122	0.127	7.91
n-tetratriacontane								
	1-08-2		Partial Carcass	Wet	< 0.0145	< 0.0146	0.00726	0.810
n-triacontane								
	1-08-2		Partial Carcass	Wet	< 0.0140	< 0.0141	0.00703	0.800
n-tricosane								
	1-08-2		Partial Carcass	Wet	6.42	6.75	6.59	5.01
n-tridecane								
	1-08-2		Partial Carcass	Wet	0.333	0.329	0.331	1.00
n-tritriacontane								

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
	1-08-2		Partial Carcass	Wet	< 0.0126	< 0.0127	0.00631	0.810
n-undecane								
	1-08-2		Partial Carcass	Wet	0.0410	0.0419	0.0415	2.04
naphthalene								
	1-08-2		Partial Carcass	Wet	0.0139	0.0118	0.0128	16.3
o,p'-DDD								
	10-07-5		Partial Carcass	Wet	0.000399	0.000340	0.000370	16.0
o,p'-DDE								
	10-07-5		Partial Carcass	Wet	0.000375	0.000378	0.000376	0.800
o,p'-DDT								
	10-07-5		Partial Carcass	Wet	< 0.000155	< 0.000155	0.0000775	0.000
oxychlordane								
	10-07-5		Partial Carcass	Wet	0.000314	0.000340	0.000327	7.95
p,p'-DDD								
	10-07-5		Partial Carcass	Wet	0.00146	0.00155	0.00151	5.91
p,p'-DDE								
	10-07-5		Partial Carcass	Wet	0.00865	0.00925	0.00895	6.72
p,p'-DDT								
	10-07-5		Partial Carcass	Wet	0.000290	0.000252	0.000271	14.0
pentachloro-anisole								
	10-07-5		Partial Carcass	Wet	0.000314	0.000366	0.000340	15.3
perylene								
	1-08-2		Partial	Wet	< 0.000639	< 0.000644	0.000321	0.780

Analyte	Sample Number	**	Sample Matrix	Basis	Initial Result (ppm/%)	Duplicate Result (ppm/%)	Average	Relative Percent Diff.
			Carcass					
phenanthrene								
	1-08-2		Partial Carcass	Wet	0.00470	0.00480	0.00475	2.11
phytane								
	1-08-2		Partial Carcass	Wet	0.175	0.177	0.176	0.980
pristane								
	1-08-2		Partial Carcass	Wet	0.132	0.131	0.131	0.380
pyrene								
	1-08-2		Partial Carcass	Wet	0.000800	0.000700	0.000750	13.3
toxaphene								
	10-07-5		Partial Carcass	Wet	< 0.0105	< 0.0105	0.00527	0.000
trans-nonachlor								
	10-07-5		Partial Carcass	Wet	0.00410	0.00426	0.00418	3.92

* See "Laboratory Notes" section.** SD = Spiked Duplicate Result

7. Spike Recoveries

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
1,2,3,4,6,7,8-HpCDD								
	*EQ0900410-02		Water	Wet	0.000200	0.000206		103
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000214		107
1,2,3,4,6,7,8-HpCDF								
	*EQ0900410-02		Water	Wet	0.000200	0.000204		102
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000205		102
1,2,3,4,7,8,9-HpCDF								
	*EQ0900410-02		Water	Wet	0.000200	0.000194		97.0
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000197		98.5
1,2,3,4,7,8-HxCDD								
	*EQ0900410-02		Water	Wet	0.000200	0.000180		90.0
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000186		93.0
1,2,3,4,7,8-HxCDF								
	*EQ0900410-02		Water	Wet	0.000200	0.000212		106
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000212		106
1,2,3,4-Tetrachlorobenzene								
	10-06-3		Partial Carcass	Wet	0.00790	0.00745	105	94.3
1,2,3,6,7,8-HxCDD								
	*EQ0900410-02		Water	Wet	0.000200	0.000224		112
	*EQ0900410-	SD	Water	Wet	0.000200	0.000236		118

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	02							
1,2,3,6,7,8-HxCDF								
	*EQ0900410-02		Water	Wet	0.000200	0.000204		102
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000213		106
1,2,3,7,8,9-HxCDD								
	*EQ0900410-02		Water	Wet	0.000200	0.000188		94.0
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000189		94.5
1,2,3,7,8,9-HxCDF								
	*EQ0900410-02		Water	Wet	0.000200	0.000189		94.5
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000195		97.5
1,2,3,7,8-PeCDD								
	*EQ0900410-02		Water	Wet	0.000200	0.000199		99.5
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000200		100.
1,2,3,7,8-PeCDF								
	*EQ0900410-02		Water	Wet	0.000200	0.000201		100.
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000205		102
1,2,4,5-Tetrachlorobenzene								
	10-06-3		Partial Carcass	Wet	0.00790	0.00519	58.7	65.7
1,6,7-Trimethyl-naphthalene								
	1-08-6		Partial Carcass	Wet	0.0190	0.0219	86.8	115
1-methylnaphthalene								
	1-08-6		Partial	Wet	0.0189	0.0213	9.00	113

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
			Carcass					
1-methylphenanthrene								
	1-08-6		Partial Carcass	Wet	0.0190	0.0211	4.04	111
2,3,4,6,7,8-HxCDF								
	*EQ0900410-02		Water	Wet	0.000200	0.000194		97.0
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000201		100.
2,3,4,7,8-PeCDF								
	*EQ0900410-02		Water	Wet	0.000200	0.000202		101
	*EQ0900410-02	SD	Water	Wet	0.000200	0.000210		105
2,3,7,8-TCDD								
	*EQ0900410-02		Water	Wet	0.0000400	0.0000402		100.
	*EQ0900410-02	SD	Water	Wet	0.0000400	0.0000405		101
2,3,7,8-TCDF								
	*EQ0900410-02		Water	Wet	0.0000400	0.0000400		100.
	*EQ0900410-02	SD	Water	Wet	0.0000400	0.0000414		104
2,6-dimethylnaphthalene								
	1-08-6		Partial Carcass	Wet	0.0192	0.0202	60.0	105
2-methylnaphthalene								
	1-08-6		Partial Carcass	Wet	0.0190	0.0211	5.00	111
Aldrin								
	10-06-3		Partial Carcass	Wet	0.00790	0.00734	130.	92.9
BDE# 100								

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	4-08-3		Partial Carcass	Wet	0.0196	0.0226	2.20	115
BDE# 138								
	4-08-3		Partial Carcass	Wet	0.0197	0.0229	283	116
BDE# 153								
	4-08-3		Partial Carcass	Wet	0.0196	0.0229	15.1	117
BDE# 154								
	4-08-3		Partial Carcass	Wet	0.0197	0.0227	7.30	115
BDE# 17								
	4-08-3		Partial Carcass	Wet	0.0194	0.0202	220.	104
BDE# 183								
	4-08-3		Partial Carcass	Wet	0.0196	0.0228	304	117
BDE# 190								
	4-08-3		Partial Carcass	Wet	0.0197	0.0233	406	118
BDE# 209								
	4-08-3		Partial Carcass	Wet	0.0965	0.103	133	107
BDE# 28								
	4-08-3		Partial Carcass	Wet	0.0196	0.0198	11.5	101
BDE# 47								
	4-08-3		Partial Carcass	Wet	0.0196	0.0166	0.260	84.7
BDE# 49/71								
	4-08-3		Partial Carcass	Wet	0.0195	0.0203	9.75	104
BDE# 66								
	4-08-3		Partial	Wet	0.0197	0.0206	352	105

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
			Carcass					
BDE# 85								
	4-08-3		Partial Carcass	Wet	0.0194	0.0216	101	111
BDE# 99								
	4-08-3		Partial Carcass	Wet	0.0196	0.0220	211	112
Benzo(a)anthracene								
	1-08-6		Partial Carcass	Wet	0.0192	0.0204	105	106
DDMU								
	10-06-3		Partial Carcass	Wet	0.00790	0.00854	12.4	108
Dibenz(a,h)anthracene								
	1-08-6		Partial Carcass	Wet	0.0192	0.0193	92.5	100.
HCB								
	10-06-3		Partial Carcass	Wet	0.00790	0.00827	11.1	105
Heptachlor								
	10-06-3		Partial Carcass	Wet	0.00790	0.00797	119	101
OCDD								
	*EQ0900410-02		Water	Wet	0.000400	0.000464		116
	*EQ0900410-02	SD	Water	Wet	0.000400	0.000439		110.
OCDF								
	*EQ0900410-02		Water	Wet	0.000400	0.000467		117
	*EQ0900410-02	SD	Water	Wet	0.000400	0.000468		117
PCB# 1								
	*EQ0900409-		Water	Wet	0.000200	0.000185		92.5

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	02							
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000193		96.5
	*EQ0900415-02		Water	Wet	0.00000100	0.000000906		90.6
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000937		93.7
PCB# 104								
	*EQ0900409-02		Water	Wet	0.000200	0.000181		90.5
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000196		98.0
	*EQ0900415-02		Water	Wet	0.00000100	0.000000940		94.0
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000973		97.3
PCB# 105								
	*EQ0900409-02		Water	Wet	0.000200	0.000227		114
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000227		114
	*EQ0900415-02		Water	Wet	0.00000100	0.00000102		102
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000113		113
PCB# 114								
	*EQ0900409-02		Water	Wet	0.000200	0.000188		94.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000206		103
	*EQ0900415-02		Water	Wet	0.00000100	0.000000880		88.0
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000964		96.4
PCB# 118								

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	*EQ0900409-02		Water	Wet	0.000200	0.000283		142
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000263		132
	*EQ0900415-02		Water	Wet	0.00000100	0.00000114		114
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000122		122
PCB# 123								
	*EQ0900409-02		Water	Wet	0.000200	0.000184		92.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000206		103
	*EQ0900415-02		Water	Wet	0.00000100	0.000000870		87.0
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000950		95.0
PCB# 126								
	*EQ0900409-02		Water	Wet	0.000200	0.000180		90.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000198		99.0
	*EQ0900415-02		Water	Wet	0.00000100	0.000000853		85.3
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000921		92.1
PCB# 15								
	*EQ0900409-02		Water	Wet	0.000200	0.000204		102
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000215		108
	*EQ0900415-02		Water	Wet	0.00000100	0.00000100		100.
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000107		107

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
PCB# 155								
	*EQ0900409-02		Water	Wet	0.000200	0.000100		50.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000212		106
	*EQ0900415-02		Water	Wet	0.00000100	0.000000500		50.0
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000500		50.0
PCB# 156/157								
	*EQ0900409-02		Water	Wet	0.000400	0.000411		103
	*EQ0900409-02	SD	Water	Wet	0.000400	0.000433		108
	*EQ0900415-02		Water	Wet	0.00000200	0.00000185		92.5
	*EQ0900415-02	SD	Water	Wet	0.00000200	0.00000202		101
PCB# 167								
	*EQ0900409-02		Water	Wet	0.000200	0.000198		99.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000212		106
	*EQ0900415-02		Water	Wet	0.00000100	0.000000932		93.2
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000102		102
PCB# 169								
	*EQ0900409-02		Water	Wet	0.000200	0.000195		97.5
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000220		110.
	*EQ0900415-02		Water	Wet	0.00000100	0.000000947		94.7
	*EQ0900415-	SD	Water	Wet	0.00000100	0.00000104		104

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	02							
PCB# 188								
	*EQ0900409-02		Water	Wet	0.000200	0.000185		92.5
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000206		103
	*EQ0900415-02		Water	Wet	0.00000100	0.000000876		87.6
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000927		92.7
PCB# 189								
	*EQ0900409-02		Water	Wet	0.000200	0.000207		104
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000225		112
	*EQ0900415-02		Water	Wet	0.00000100	0.000000965		96.5
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000104		104
PCB# 19								
	*EQ0900409-02		Water	Wet	0.000200	0.000172		86.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000192		96.0
	*EQ0900415-02		Water	Wet	0.00000100	0.000000956		95.6
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000958		95.8
PCB# 202								
	*EQ0900409-02		Water	Wet	0.000200	0.000100		50.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000221		110.
	*EQ0900415-02		Water	Wet	0.00000100	0.000000500		50.0

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000107		107
PCB# 205								
	*EQ0900409-02		Water	Wet	0.000200	0.000100		50.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000210		105
	*EQ0900415-02		Water	Wet	0.00000100	0.000000500		50.0
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000500		50.0
PCB# 206								
	*EQ0900409-02		Water	Wet	0.000200	0.000220		110.
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000217		108
	*EQ0900415-02		Water	Wet	0.00000100	0.000000500		50.0
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000105		105
PCB# 208								
	*EQ0900409-02		Water	Wet	0.000200	0.000208		104
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000220		110.
	*EQ0900415-02		Water	Wet	0.00000100	0.000000500		50.0
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000103		103
PCB# 209								
	*EQ0900409-02		Water	Wet	0.000200	0.000180		90.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000192		96.0
	*EQ0900415-		Water	Wet	0.00000100	0.000000930		93.0

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	02							
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000993		99.3
PCB# 3								
	*EQ0900409-02		Water	Wet	0.000200	0.000194		97.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000204		102
	*EQ0900415-02		Water	Wet	0.00000100	0.000000913		91.3
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000952		95.2
PCB# 37								
	*EQ0900409-02		Water	Wet	0.000200	0.000199		99.5
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000210		105
	*EQ0900415-02		Water	Wet	0.00000100	0.000000950		95.0
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000105		105
PCB# 4								
	*EQ0900409-02		Water	Wet	0.000200	0.000190		95.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000195		97.5
	*EQ0900415-02		Water	Wet	0.00000100	0.000000928		92.8
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000101		101
PCB# 54								
	*EQ0900409-02		Water	Wet	0.000200	0.000181		90.5
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000206		103

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	*EQ0900415-02		Water	Wet	0.00000100	0.000000881		88.1
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000970		97.0
PCB# 77								
	*EQ0900409-02		Water	Wet	0.000200	0.000198		99.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000213		106
	*EQ0900415-02		Water	Wet	0.00000100	0.000000936		93.6
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.00000101		101
PCB# 81								
	*EQ0900409-02		Water	Wet	0.000200	0.000188		94.0
	*EQ0900409-02	SD	Water	Wet	0.000200	0.000205		102
	*EQ0900415-02		Water	Wet	0.00000100	0.000000882		88.2
	*EQ0900415-02	SD	Water	Wet	0.00000100	0.000000976		97.6
Pentachlorobenzene								
	10-06-3		Partial Carcass	Wet	0.00790	0.00770	2.89	97.4
acenaphthalene								
	1-08-6		Partial Carcass	Wet	0.0189	0.0199	27.0	105
acenaphthene								
	1-08-6		Partial Carcass	Wet	0.0192	0.0200	38.4	104
alpha BHC								
	10-06-3		Partial Carcass	Wet	0.00790	0.00622	75.6	78.7
alpha chlordane								

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	10-06-3		Partial Carcass	Wet	0.00790	0.00836	1.39	106
anthracene								
	1-08-6		Partial Carcass	Wet	0.0191	0.0218	63.7	114
benzo(a)pyrene								
	1-08-6		Partial Carcass	Wet	0.0191	0.0180	87.2	94.1
benzo(b)fluoranthene								
	1-08-6		Partial Carcass	Wet	0.0192	0.0202	120.	105
benzo(e)pyrene								
	1-08-6		Partial Carcass	Wet	0.0192	0.0223	83.1	116
benzo(g,h,i)perylene								
	1-08-6		Partial Carcass	Wet	0.0190	0.0160	72.9	84.4
benzo(k)fluoranthene								
	1-08-6		Partial Carcass	Wet	0.0190	0.0211	94.3	111
beta BHC								
	10-06-3		Partial Carcass	Wet	0.00790	0.00708	70.5	89.7
biphenyl								
	1-08-6		Partial Carcass	Wet	0.0190	0.0156	11.2	82.1
chlorpyrifos								
	10-06-3		Partial Carcass	Wet	0.00790	0.00644	57.0	81.5
chrysene								
	1-08-6		Partial Carcass	Wet	0.0189	0.0182	81.8	96.1
cis-nonachlor								
	10-06-3		Partial	Wet	0.00790	0.00794	3.58	101

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
			Carcass					
delta BHC								
	10-06-3		Partial Carcass	Wet	0.00790	0.00683	145	86.4
dibenzothiophene								
	1-08-6		Partial Carcass	Wet	0.0189	0.0199	114	105
dieldrin								
	10-06-3		Partial Carcass	Wet	0.00790	0.00821	1.90	104
endosulfan II								
	10-06-3		Partial Carcass	Wet	0.00790	0.00227	107	28.8
endosulfan sulfate								
	10-06-3		Partial Carcass	Wet	0.00790	0.00742	1.82	93.9
endrin								
	10-06-3		Partial Carcass	Wet	0.00790	0.00876	78.2	111
fluoranthene								
	1-08-6		Partial Carcass	Wet	0.0192	0.0215	38.4	112
fluorene								
	1-08-6		Partial Carcass	Wet	0.0190	0.0221	13.6	116
gamma BHC								
	10-06-3		Partial Carcass	Wet	0.00790	0.00686	168	86.8
gamma chlordane								
	10-06-3		Partial Carcass	Wet	0.00790	0.00845	2.46	107
heptachlor epoxide								
	10-06-3		Partial Carcass	Wet	0.00790	0.00742	25.8	93.9

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
indeno(1,2,3-cd)pyrene								
	1-08-6		Partial Carcass	Wet	0.0189	0.0156	56.0	82.3
mirex								
	10-06-3		Partial Carcass	Wet	0.00790	0.00816	128	103
n-decane								
	1-08-6		Partial Carcass	Wet	1.92	2.24	21.3	117
n-docosane								
	1-08-6		Partial Carcass	Wet	1.88	1.76	236	93.4
n-dodecane								
	1-08-6		Partial Carcass	Wet	1.91	2.24	415	117
n-dotriacontane								
	1-08-6		Partial Carcass	Wet	1.89	1.59	260.	84.4
n-eicosane								
	1-08-6		Partial Carcass	Wet	1.92	2.01	236	105
n-heneicosane								
	1-08-6		Partial Carcass	Wet	1.92	2.08	225	108
n-hentriacontane								
	1-08-6		Partial Carcass	Wet	1.92	1.77	259	92.4
n-heptacosane								
	1-08-6		Partial Carcass	Wet	1.90	1.26	14.4	66.1
n-heptadecane								
	*1-08-6		Partial Carcass	Wet	1.92	1.56	0.110	81.3
n-hexacosane								

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
	1-08-6		Partial Carcass	Wet	1.90	1.19	3.36	62.5
n-hexadecane								
	1-08-6		Partial Carcass	Wet	1.91	1.92	3.69	100.
n-nonacosane								
	1-08-6		Partial Carcass	Wet	1.92	1.96	295	102
n-nonadecane								
	1-08-6		Partial Carcass	Wet	1.92	2.04	2.33	106
n-octacosane								
	1-08-6		Partial Carcass	Wet	1.91	1.55	273	80.9
n-octadecane								
	1-08-6		Partial Carcass	Wet	1.92	1.76	0.410	92.0
n-pentacosane								
	1-08-6		Partial Carcass	Wet	1.92	1.41	5.43	73.8
n-pentadecane								
	*1-08-6		Partial Carcass	Wet	1.90	2.02	0.660	106
n-tetracosane								
	1-08-6		Partial Carcass	Wet	1.92	2.20	14.3	115
n-tetradecane								
	1-08-6		Partial Carcass	Wet	1.91	2.12	14.0	111
n-tetratriacontane								
	1-08-6		Partial Carcass	Wet	1.91	1.75	270.	91.3
n-triacontane								
	1-08-6		Partial	Wet	1.92	1.65	279	85.8

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
			Carcass					
n-tricosane								
	*1-08-6		Partial Carcass	Wet	1.93	1.34	0.500	69.3
n-tridecane								
	1-08-6		Partial Carcass	Wet	1.91	1.80	1.75	94.2
n-tritriacontane								
	1-08-6		Partial Carcass	Wet	1.92	1.74	311	90.7
n-undecane								
	1-08-6		Partial Carcass	Wet	1.93	2.30	21.2	119
naphthalene								
	1-08-6		Partial Carcass	Wet	0.0192	0.0211	1.11	110.
o,p'-DDD								
	10-06-3		Partial Carcass	Wet	0.00790	0.00790	13.8	100.
o,p'-DDE								
	10-06-3		Partial Carcass	Wet	0.00790	0.00757	18.8	95.8
o,p'-DDT								
	10-06-3		Partial Carcass	Wet	0.00790	0.00828	102	105
oxychlordane								
	10-06-3		Partial Carcass	Wet	0.00790	0.00724	23.8	91.7
p,p'-DDD								
	10-06-3		Partial Carcass	Wet	0.00790	0.00812	4.52	103
p,p'-DDE								
	10-06-3		Partial Carcass	Wet	0.00790	0.00797	0.420	101

Analyte	Sample Number	**	Sample Matrix	Basis	Spike Level (ppm/%)	Amount Recovered (ppm/%)	*** Spike Background	Percent Recovery
p,p'-DDT								
	10-06-3		Partial Carcass	Wet	0.00790	0.00824	11.9	104
pentachloro-anisole								
	10-06-3		Partial Carcass	Wet	0.00790	0.00853	8.04	108
perylene								
	1-08-6		Partial Carcass	Wet	0.0192	0.0194	61.2	101
phenanthrene								
	1-08-6		Partial Carcass	Wet	0.0189	0.0211	9.95	112
phytane								
	1-08-6		Partial Carcass	Wet	1.88	2.11	6.78	112
pristane								
	1-08-6		Partial Carcass	Wet	1.90	2.15	9.06	113
pyrene								
	1-08-6		Partial Carcass	Wet	0.0189	0.0210	96.7	111
trans-nonachlor								
	10-06-3		Partial Carcass	Wet	0.00790	0.00843	1.10	107

* See "Laboratory Notes" section.** SD = Spiked Duplicate Result; SB = Spike Blank Result*** For a spike to be a valid measure of method accuracy, this ratio must be higher than 1.0.

9. Laboratory Notes

Analyte	Sample Number	Result Modifier
1,2,3,4,6,7,8-HpCDD		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,4,6,7,8-HpCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,4,7,8,9-HpCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,4,7,8-HxCDD		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,4,7,8-HxCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,4-Tetrachlorobenzene		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation

	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
1,2,3,6,7,8-HxCDD		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,6,7,8-HxCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,7,8,9-HxCDD		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,7,8,9-HxCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,7,8-PeCDD		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,3,7,8-PeCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
1,2,4,5-Tetrachlorobenzene		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for

		performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
2,3,4,6,7,8-HxCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
2,3,4,7,8-PeCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
2,3,7,8-TCDD		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
2,3,7,8-TCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
Aldrin		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation

	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
BHC (Total)		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
DDMU		
	10-06-1	The analyte is < detection limit for performing the MS confirmation

	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
HCB		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation

	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
Heptachlor		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
OCDD		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
OCDF		
	EQ0900410-02	Lab reported Spike Blank Duplicate. ACF

		changed it to a Spike Duplicate.
PCB# 1		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 104		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 105		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 114		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 118		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 123		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 126		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 15		

	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 155		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 156/157		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 167		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 169		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 188		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 189		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 19		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF

		changed it to a Spike Duplicate.
PCB# 202		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 205		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 206		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 208		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 209		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 3		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 37		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 4		

	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 54		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 77		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
PCB# 81		
	EQ0900409-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
	EQ0900415-02	Lab reported Spike Blank Duplicate. ACF changed it to a Spike Duplicate.
Pentachlorobenzene		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation

	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
Total DDT's		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
alpha BHC		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation

	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
alpha chlordane		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation

	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
beta BHC		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
chlorpyrifos		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation

	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
cis-nonachlor		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation

	4-08-6	The analyte is < detection limit for performing the MS confirmation
delta BHC		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
dieldrin		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation

	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
endosulfan I		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation

endosulfan II		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
endosulfan sulfate		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation

	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
endrin		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
gamma BHC		

	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
gamma chlordane		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation

	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
heptachlor epoxide		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
mirex		
	10-06-1	The analyte is < detection limit for performing the MS confirmation

	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
n-eicosane		
	1-08-1	I
n-heptacosane		
	1-08-4	I
n-heptadecane		
	1-08-2	I
	1-08-3	I
	1-08-6	I
n-nonacosane		
	1-08-3	I
	1-08-4	I
n-nonadecane		
	1-08-3	I
n-octadecane		

	1-08-1	I
	1-08-2	I
	1-08-3	I
	1-08-4	I
	1-08-6	I
n-pentadecane		
	1-08-1	I
	1-08-2	I
	1-08-3	I
	1-08-4	I
	1-08-6	I
n-tricosane		
	1-08-1	I
	1-08-2	I
	1-08-3	I
	1-08-6	I
n-undecane		
	1-08-1	I
o,p'-DDD		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation

	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
o,p'-DDE		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
o,p'-DDT		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation

	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
oxychlordane		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation

	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
p,p'-DDD		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
p,p'-DDE		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation

	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
p,p'-DDT		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation

	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
pentachloro-anisole		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
pristane		
	1-08-1	I
toxaphene		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation

	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation
	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation
trans-nonachlor		
	10-06-1	The analyte is < detection limit for performing the MS confirmation
	10-06-2	The analyte is < detection limit for performing the MS confirmation
	10-06-3	The analyte is < detection limit for performing the MS confirmation
	10-06-4	The analyte is < detection limit for performing the MS confirmation
	10-06-5	The analyte is < detection limit for performing the MS confirmation
	10-07-1	The analyte is < detection limit for performing the MS confirmation
	10-07-2	The analyte is < detection limit for performing the MS confirmation
	10-07-3	The analyte is < detection limit for performing the MS confirmation
	10-07-4	The analyte is < detection limit for performing the MS confirmation
	10-07-5	The analyte is < detection limit for performing the MS confirmation

	10-07-6	The analyte is < detection limit for performing the MS confirmation
	4-08-6	The analyte is < detection limit for performing the MS confirmation

Code List

If appropriate, labs are instructed to use the following codes when entering laboratory notes. The labs may use one or more of the codes in each note displayed above.

Code	Comment
A	Values reported based on Aldrin response factor.
C	Sample possibly compromised due to improper handling / packaging.
D	Sample was deleted from the catalog by the submitter.
H	Due to sample characteristics it was difficult to obtain adequate sample homogeneity - precision was impacted.
I	Interferences occurred during analysis.
L	Sample compromised or destroyed during shipment - sample not analyzed.
M	Compound identity was confirmed by GC/MS.
N	Sample was not analyzed.
P	Sample destroyed during preparation at lab - sample not analyzed.
Q	Insufficient sample quantity to perform requested analysis.
R	Sample is highly decomposed - results may be impacted.
S	Sample was substituted by the submitter.
T	Retention time relative to Aldrin.
U	GC/MS identifies the unknown compound to be _____ (fill in analyte).
W	Insufficient sample quantity to perform duplicate / spike analyses.
Y	Sample was analyzed but results may be impacted (see 'C')

10. QAQC Summary

1. Procedural Blank Summary

Procedural Blank Summary of Blank Equivalent Concentration (BEC) Data

Within a lab sample matrix, there must be three or more Blank results for a given analyte in order to generate a report.

10.2. Duplicate Summary

Duplicate Summary of Relative Percent Difference (RPD) Data

Within a lab sample matrix and concentration range, there must be three or more Duplicate results for a given analyte in order to generate a report.

10.3. Spike Summary

Spike Summary of Percent Recovery (PR) Data

Within a lab sample matrix, there must be three or more Spike results for a given analyte in order to generate a report.

10.4. SRM Summary

Standard Reference Material Summary of Percent Recovery (PR) Data

Within an SRM ID, there must be three or more Recoveries for a given analyte in order to generate a report.

11. QA/QC Anomalies

1. Blank Frequency Anomalies

The required number of blank sample analyses were performed with the following exceptions.				
Analyte	**Number of Samples**	**Number of Blanks**	**Frequency (%)**	**See QA/QC Note No.**
PCB-1242	13	0	0	1
PCB-1248	13	0	0	2
PCB-1254	13	0	0	3
PCB-1260	13	0	0	4

11.2. Duplicate Frequency Anomalies

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
1,2,3,4,6,7,8-HpCDD	Animal Tissue	8	0	0	5
1,2,3,4,6,7,8-HpCDF	Animal Tissue	8	0	0	6
1,2,3,4,7,8,9-HpCDF	Animal Tissue	8	0	0	7
1,2,3,4,7,8-HxCDD	Animal Tissue	8	0	0	8
1,2,3,4,7,8-HxCDF	Animal Tissue	8	0	0	9
1,2,3,6,7,8-HxCDD	Animal Tissue	8	0	0	10
1,2,3,6,7,8-HxCDF	Animal Tissue	8	0	0	11
1,2,3,7,8,9-HxCDD	Animal Tissue	8	0	0	12
1,2,3,7,8,9-HxCDF	Animal Tissue	8	0	0	13
1,2,3,7,8-PeCDD	Animal Tissue	8	0	0	14
1,2,3,7,8-PeCDF	Animal Tissue	8	0	0	15
2,3,4,6,7,8-HxCDF	Animal Tissue	8	0	0	16
2,3,4,7,8-PeCDF	Animal Tissue	8	0	0	17
2,3,7,8-TCDD	Animal Tissue	8	0	0	18
2,3,7,8-TCDF	Animal Tissue	8	0	0	19
Cl4-PCDD	Animal Tissue	8	0	0	20
Cl4-PCDF	Animal Tissue	8	0	0	21

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
Cl5-PCDD	Animal Tissue	8	0	0	22
Cl5-PCDF	Animal Tissue	8	0	0	23
Cl6-PCDD	Animal Tissue	8	0	0	24
Cl6-PCDF	Animal Tissue	8	0	0	25
Cl7-PCDD	Animal Tissue	8	0	0	26
Cl7-PCDF	Animal Tissue	8	0	0	27
OCDD	Animal Tissue	8	0	0	28
OCDF	Animal Tissue	8	0	0	29
PCB# 1	Animal Tissue	12	0	0	30
PCB# 1	Water	1	0	0	31
PCB# 10	Animal Tissue	12	0	0	32
PCB# 10	Water	1	0	0	33
PCB# 103	Animal Tissue	12	0	0	34
PCB# 103	Water	1	0	0	35
PCB# 104	Animal Tissue	12	0	0	36
PCB# 104	Water	1	0	0	37
PCB# 105	Animal Tissue	12	0	0	38
PCB# 105	Water	1	0	0	39
PCB# 106	Animal Tissue	12	0	0	40
PCB# 106	Water	1	0	0	41
PCB# 107	Animal Tissue	12	0	0	42
PCB# 107	Water	1	0	0	43
PCB# 108/124	Animal Tissue	12	0	0	44
PCB# 108/124	Water	1	0	0	45
PCB# 11	Animal Tissue	12	0	0	46
PCB# 11	Water	1	0	0	47
PCB# 110/115	Animal Tissue	12	0	0	48
PCB# 110/115	Water	1	0	0	49
PCB# 111	Animal Tissue	12	0	0	50
PCB# 111	Water	1	0	0	51
PCB# 112	Animal Tissue	12	0	0	52
PCB# 112	Water	1	0	0	53

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 114	Animal Tissue	12	0	0	54
PCB# 114	Water	1	0	0	55
PCB# 117	Animal Tissue	12	0	0	56
PCB# 117	Water	1	0	0	57
PCB# 118	Animal Tissue	12	0	0	58
PCB# 118	Water	1	0	0	59
PCB# 12/13	Animal Tissue	12	0	0	60
PCB# 12/13	Water	1	0	0	61
PCB# 120	Animal Tissue	12	0	0	62
PCB# 120	Water	1	0	0	63
PCB# 121	Animal Tissue	12	0	0	64
PCB# 121	Water	1	0	0	65
PCB# 122	Animal Tissue	12	0	0	66
PCB# 122	Water	1	0	0	67
PCB# 123	Animal Tissue	12	0	0	68
PCB# 123	Water	1	0	0	69
PCB# 126	Animal Tissue	12	0	0	70
PCB# 126	Water	1	0	0	71
PCB# 127	Animal Tissue	12	0	0	72
PCB# 127	Water	1	0	0	73
PCB# 128/166	Animal Tissue	12	0	0	74
PCB# 128/166	Water	1	0	0	75
PCB# 129/138/163	Animal Tissue	12	0	0	76
PCB# 129/138/163	Water	1	0	0	77
PCB# 130	Animal Tissue	12	0	0	78
PCB# 130	Water	1	0	0	79
PCB# 131	Animal Tissue	12	0	0	80
PCB# 131	Water	1	0	0	81
PCB# 132	Animal Tissue	12	0	0	82
PCB# 132	Water	1	0	0	83
PCB# 133	Animal Tissue	12	0	0	84
PCB# 133	Water	1	0	0	85

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 134	Animal Tissue	12	0	0	86
PCB# 134	Water	1	0	0	87
PCB# 135/151	Animal Tissue	12	0	0	88
PCB# 135/151	Water	1	0	0	89
PCB# 136	Animal Tissue	12	0	0	90
PCB# 136	Water	1	0	0	91
PCB# 137	Animal Tissue	12	0	0	92
PCB# 137	Water	1	0	0	93
PCB# 139/140	Animal Tissue	12	0	0	94
PCB# 139/140	Water	1	0	0	95
PCB# 14	Animal Tissue	12	0	0	96
PCB# 14	Water	1	0	0	97
PCB# 141	Animal Tissue	12	0	0	98
PCB# 141	Water	1	0	0	99
PCB# 142	Animal Tissue	12	0	0	100
PCB# 142	Water	1	0	0	101
PCB# 143	Animal Tissue	12	0	0	102
PCB# 143	Water	1	0	0	103
PCB# 144	Animal Tissue	12	0	0	104
PCB# 144	Water	1	0	0	105
PCB# 145	Animal Tissue	12	0	0	106
PCB# 145	Water	1	0	0	107
PCB# 146	Animal Tissue	12	0	0	108
PCB# 146	Water	1	0	0	109
PCB# 147/149	Animal Tissue	12	0	0	110
PCB# 147/149	Water	1	0	0	111
PCB# 148	Animal Tissue	12	0	0	112
PCB# 148	Water	1	0	0	113
PCB# 15	Animal Tissue	12	0	0	114
PCB# 15	Water	1	0	0	115
PCB# 150	Animal Tissue	12	0	0	116
PCB# 150	Water	1	0	0	117

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 152	Animal Tissue	12	0	0	118
PCB# 152	Water	1	0	0	119
PCB# 153/168	Animal Tissue	12	0	0	120
PCB# 153/168	Water	1	0	0	121
PCB# 154	Animal Tissue	12	0	0	122
PCB# 154	Water	1	0	0	123
PCB# 155	Animal Tissue	12	0	0	124
PCB# 155	Water	1	0	0	125
PCB# 156/157	Animal Tissue	12	0	0	126
PCB# 156/157	Water	1	0	0	127
PCB# 158	Animal Tissue	12	0	0	128
PCB# 158	Water	1	0	0	129
PCB# 159	Animal Tissue	12	0	0	130
PCB# 159	Water	1	0	0	131
PCB# 16	Animal Tissue	12	0	0	132
PCB# 16	Water	1	0	0	133
PCB# 160	Animal Tissue	12	0	0	134
PCB# 160	Water	1	0	0	135
PCB# 161	Animal Tissue	12	0	0	136
PCB# 161	Water	1	0	0	137
PCB# 162	Animal Tissue	12	0	0	138
PCB# 162	Water	1	0	0	139
PCB# 164	Animal Tissue	12	0	0	140
PCB# 164	Water	1	0	0	141
PCB# 165	Animal Tissue	12	0	0	142
PCB# 165	Water	1	0	0	143
PCB# 167	Animal Tissue	12	0	0	144
PCB# 167	Water	1	0	0	145
PCB# 169	Animal Tissue	12	0	0	146
PCB# 169	Water	1	0	0	147
PCB# 17	Animal Tissue	12	0	0	148
PCB# 17	Water	1	0	0	149

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 170	Animal Tissue	12	0	0	150
PCB# 170	Water	1	0	0	151
PCB# 171/173	Animal Tissue	12	0	0	152
PCB# 171/173	Water	1	0	0	153
PCB# 172	Animal Tissue	12	0	0	154
PCB# 172	Water	1	0	0	155
PCB# 174	Animal Tissue	12	0	0	156
PCB# 174	Water	1	0	0	157
PCB# 175	Animal Tissue	12	0	0	158
PCB# 175	Water	1	0	0	159
PCB# 176	Animal Tissue	12	0	0	160
PCB# 176	Water	1	0	0	161
PCB# 177	Animal Tissue	12	0	0	162
PCB# 177	Water	1	0	0	163
PCB# 178	Animal Tissue	12	0	0	164
PCB# 178	Water	1	0	0	165
PCB# 179	Animal Tissue	12	0	0	166
PCB# 179	Water	1	0	0	167
PCB# 18/30	Animal Tissue	12	0	0	168
PCB# 18/30	Water	1	0	0	169
PCB# 180/193	Animal Tissue	12	0	0	170
PCB# 180/193	Water	1	0	0	171
PCB# 181	Animal Tissue	12	0	0	172
PCB# 181	Water	1	0	0	173
PCB# 182	Animal Tissue	12	0	0	174
PCB# 182	Water	1	0	0	175
PCB# 183	Animal Tissue	12	0	0	176
PCB# 183	Water	1	0	0	177
PCB# 184	Animal Tissue	12	0	0	178
PCB# 184	Water	1	0	0	179
PCB# 185	Animal Tissue	12	0	0	180
PCB# 185	Water	1	0	0	181

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 186	Animal Tissue	12	0	0	182
PCB# 186	Water	1	0	0	183
PCB# 187	Animal Tissue	12	0	0	184
PCB# 187	Water	1	0	0	185
PCB# 188	Animal Tissue	12	0	0	186
PCB# 188	Water	1	0	0	187
PCB# 189	Animal Tissue	12	0	0	188
PCB# 189	Water	1	0	0	189
PCB# 19	Animal Tissue	12	0	0	190
PCB# 19	Water	1	0	0	191
PCB# 190	Animal Tissue	12	0	0	192
PCB# 190	Water	1	0	0	193
PCB# 191	Animal Tissue	12	0	0	194
PCB# 191	Water	1	0	0	195
PCB# 192	Animal Tissue	12	0	0	196
PCB# 192	Water	1	0	0	197
PCB# 194	Animal Tissue	12	0	0	198
PCB# 194	Water	1	0	0	199
PCB# 195	Animal Tissue	12	0	0	200
PCB# 195	Water	1	0	0	201
PCB# 196	Animal Tissue	12	0	0	202
PCB# 196	Water	1	0	0	203
PCB# 197	Animal Tissue	12	0	0	204
PCB# 197	Water	1	0	0	205
PCB# 198/199	Animal Tissue	12	0	0	206
PCB# 198/199	Water	1	0	0	207
PCB# 2	Animal Tissue	12	0	0	208
PCB# 2	Water	1	0	0	209
PCB# 20/28	Animal Tissue	12	0	0	210
PCB# 20/28	Water	1	0	0	211
PCB# 200	Animal Tissue	12	0	0	212
PCB# 200	Water	1	0	0	213

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 201	Animal Tissue	12	0	0	214
PCB# 201	Water	1	0	0	215
PCB# 202	Animal Tissue	12	0	0	216
PCB# 202	Water	1	0	0	217
PCB# 203	Animal Tissue	12	0	0	218
PCB# 203	Water	1	0	0	219
PCB# 204	Animal Tissue	12	0	0	220
PCB# 204	Water	1	0	0	221
PCB# 205	Animal Tissue	12	0	0	222
PCB# 205	Water	1	0	0	223
PCB# 206	Animal Tissue	12	0	0	224
PCB# 206	Water	1	0	0	225
PCB# 207	Animal Tissue	12	0	0	226
PCB# 207	Water	1	0	0	227
PCB# 208	Animal Tissue	12	0	0	228
PCB# 208	Water	1	0	0	229
PCB# 209	Animal Tissue	12	0	0	230
PCB# 209	Water	1	0	0	231
PCB# 21/33	Animal Tissue	12	0	0	232
PCB# 21/33	Water	1	0	0	233
PCB# 22	Animal Tissue	12	0	0	234
PCB# 22	Water	1	0	0	235
PCB# 23	Animal Tissue	12	0	0	236
PCB# 23	Water	1	0	0	237
PCB# 24	Animal Tissue	12	0	0	238
PCB# 24	Water	1	0	0	239
PCB# 25	Animal Tissue	12	0	0	240
PCB# 25	Water	1	0	0	241
PCB# 26/29	Animal Tissue	12	0	0	242
PCB# 26/29	Water	1	0	0	243
PCB# 27	Animal Tissue	12	0	0	244
PCB# 27	Water	1	0	0	245

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 3	Animal Tissue	12	0	0	246
PCB# 3	Water	1	0	0	247
PCB# 31	Animal Tissue	12	0	0	248
PCB# 31	Water	1	0	0	249
PCB# 32	Animal Tissue	12	0	0	250
PCB# 32	Water	1	0	0	251
PCB# 34	Animal Tissue	12	0	0	252
PCB# 34	Water	1	0	0	253
PCB# 35	Animal Tissue	12	0	0	254
PCB# 35	Water	1	0	0	255
PCB# 36	Animal Tissue	12	0	0	256
PCB# 36	Water	1	0	0	257
PCB# 37	Animal Tissue	12	0	0	258
PCB# 37	Water	1	0	0	259
PCB# 38	Animal Tissue	12	0	0	260
PCB# 38	Water	1	0	0	261
PCB# 39	Animal Tissue	12	0	0	262
PCB# 39	Water	1	0	0	263
PCB# 4	Animal Tissue	12	0	0	264
PCB# 4	Water	1	0	0	265
PCB# 40/41/70	Animal Tissue	12	0	0	266
PCB# 40/41/70	Water	1	0	0	267
PCB# 42	Animal Tissue	12	0	0	268
PCB# 42	Water	1	0	0	269
PCB# 43/73	Animal Tissue	12	0	0	270
PCB# 43/73	Water	1	0	0	271
PCB# 44/47/65	Animal Tissue	12	0	0	272
PCB# 44/47/65	Water	1	0	0	273
PCB# 45/51	Animal Tissue	12	0	0	274
PCB# 45/51	Water	1	0	0	275
PCB# 46	Animal Tissue	12	0	0	276
PCB# 46	Water	1	0	0	277

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 48	Animal Tissue	12	0	0	278
PCB# 48	Water	1	0	0	279
PCB# 49/69	Animal Tissue	12	0	0	280
PCB# 49/69	Water	1	0	0	281
PCB# 5	Animal Tissue	12	0	0	282
PCB# 5	Water	1	0	0	283
PCB# 50/53	Animal Tissue	12	0	0	284
PCB# 50/53	Water	1	0	0	285
PCB# 52	Animal Tissue	12	0	0	286
PCB# 52	Water	1	0	0	287
PCB# 54	Animal Tissue	12	0	0	288
PCB# 54	Water	1	0	0	289
PCB# 55	Animal Tissue	12	0	0	290
PCB# 55	Water	1	0	0	291
PCB# 56	Animal Tissue	12	0	0	292
PCB# 56	Water	1	0	0	293
PCB# 57	Animal Tissue	12	0	0	294
PCB# 57	Water	1	0	0	295
PCB# 58	Animal Tissue	12	0	0	296
PCB# 58	Water	1	0	0	297
PCB# 59/62/75	Animal Tissue	12	0	0	298
PCB# 59/62/75	Water	1	0	0	299
PCB# 6	Animal Tissue	12	0	0	300
PCB# 6	Water	1	0	0	301
PCB# 60	Animal Tissue	12	0	0	302
PCB# 60	Water	1	0	0	303
PCB# 63	Animal Tissue	12	0	0	304
PCB# 63	Water	1	0	0	305
PCB# 64	Animal Tissue	12	0	0	306
PCB# 64	Water	1	0	0	307
PCB# 66	Animal Tissue	12	0	0	308
PCB# 66	Water	1	0	0	309

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 67	Animal Tissue	12	0	0	310
PCB# 67	Water	1	0	0	311
PCB# 68	Animal Tissue	12	0	0	312
PCB# 68	Water	1	0	0	313
PCB# 7	Animal Tissue	12	0	0	314
PCB# 7	Water	1	0	0	315
PCB# 70/61/74/76	Animal Tissue	12	0	0	316
PCB# 70/61/74/76	Water	1	0	0	317
PCB# 72	Animal Tissue	12	0	0	318
PCB# 72	Water	1	0	0	319
PCB# 77	Animal Tissue	12	0	0	320
PCB# 77	Water	1	0	0	321
PCB# 78	Animal Tissue	12	0	0	322
PCB# 78	Water	1	0	0	323
PCB# 79	Animal Tissue	12	0	0	324
PCB# 79	Water	1	0	0	325
PCB# 8	Animal Tissue	12	0	0	326
PCB# 8	Water	1	0	0	327
PCB# 80	Animal Tissue	12	0	0	328
PCB# 80	Water	1	0	0	329
PCB# 81	Animal Tissue	12	0	0	330
PCB# 81	Water	1	0	0	331
PCB# 82	Animal Tissue	12	0	0	332
PCB# 82	Water	1	0	0	333
PCB# 83/99	Animal Tissue	12	0	0	334
PCB# 83/99	Water	1	0	0	335
PCB# 84	Animal Tissue	12	0	0	336
PCB# 84	Water	1	0	0	337
PCB# 85/116	Animal Tissue	12	0	0	338
PCB# 85/116	Water	1	0	0	339
PCB# 86/87/97/109/119/12	Animal Tissue	12	0	0	340

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
5					
PCB# 86/87/97/109/119/125	Water	1	0	0	341
PCB# 88/91	Animal Tissue	12	0	0	342
PCB# 88/91	Water	1	0	0	343
PCB# 89	Animal Tissue	12	0	0	344
PCB# 89	Water	1	0	0	345
PCB# 9	Animal Tissue	12	0	0	346
PCB# 9	Water	1	0	0	347
PCB# 90/101/113	Animal Tissue	12	0	0	348
PCB# 90/101/113	Water	1	0	0	349
PCB# 92	Animal Tissue	12	0	0	350
PCB# 92	Water	1	0	0	351
PCB# 94	Animal Tissue	12	0	0	352
PCB# 94	Water	1	0	0	353
PCB# 95	Animal Tissue	12	0	0	354
PCB# 95	Water	1	0	0	355
PCB# 96	Animal Tissue	12	0	0	356
PCB# 96	Water	1	0	0	357
PCB# 98/100	Animal Tissue	12	0	0	358
PCB# 98/100	Water	1	0	0	359
PCB# 98/102	Animal Tissue	12	0	0	360
PCB# 98/102	Water	1	0	0	361
PCB-1242	Animal Tissue	12	0	0	362
PCB-1242	Water	1	0	0	363
PCB-1248	Animal Tissue	12	0	0	364
PCB-1248	Water	1	0	0	365
PCB-1254	Animal Tissue	12	0	0	366
PCB-1254	Water	1	0	0	367
PCB-1260	Animal Tissue	12	0	0	368
PCB-1260	Water	1	0	0	369

The required number of duplicate sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Duplicates**	**Frequency (%)**	**See QA/QC Note No.**
PCB-TOTAL	Animal Tissue	12	0	0	370
PCB-TOTAL	Water	1	0	0	371

11.3. Spike Frequency Anomalies

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
1,2,3,4,6,7,8-HpCDD	Animal Tissue	8	0	0	372
1,2,3,4,6,7,8-HpCDF	Animal Tissue	8	0	0	373
1,2,3,4,7,8,9-HpCDF	Animal Tissue	8	0	0	374
1,2,3,4,7,8-HxCDD	Animal Tissue	8	0	0	375
1,2,3,4,7,8-HxCDF	Animal Tissue	8	0	0	376
1,2,3,6,7,8-HxCDD	Animal Tissue	8	0	0	377
1,2,3,6,7,8-HxCDF	Animal Tissue	8	0	0	378
1,2,3,7,8,9-HxCDD	Animal Tissue	8	0	0	379
1,2,3,7,8,9-HxCDF	Animal Tissue	8	0	0	380
1,2,3,7,8-PeCDD	Animal Tissue	8	0	0	381
1,2,3,7,8-PeCDF	Animal Tissue	8	0	0	382
2,3,4,6,7,8-HxCDF	Animal Tissue	8	0	0	383
2,3,4,7,8-PeCDF	Animal Tissue	8	0	0	384
2,3,7,8-TCDD	Animal Tissue	8	0	0	385
2,3,7,8-TCDF	Animal Tissue	8	0	0	386
BDE# 1	Animal Tissue	11	0	0	387
BDE# 10	Animal Tissue	11	0	0	388
BDE# 11	Animal Tissue	11	0	0	389
BDE# 116	Animal Tissue	11	0	0	390
BDE# 118	Animal Tissue	11	0	0	391
BDE# 119	Animal Tissue	11	0	0	392
BDE# 12	Animal Tissue	11	0	0	393

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
BDE# 126	Animal Tissue	11	0	0	394
BDE# 13	Animal Tissue	11	0	0	395
BDE# 15	Animal Tissue	11	0	0	396
BDE# 155	Animal Tissue	11	0	0	397
BDE# 166	Animal Tissue	11	0	0	398
BDE# 181	Animal Tissue	11	0	0	399
BDE# 194	Animal Tissue	11	0	0	400
BDE# 195	Animal Tissue	11	0	0	401
BDE# 196	Animal Tissue	11	0	0	402
BDE# 197	Animal Tissue	11	0	0	403
BDE# 198/199/203/200	Animal Tissue	11	0	0	404
BDE# 2	Animal Tissue	11	0	0	405
BDE# 201	Animal Tissue	11	0	0	406
BDE# 202	Animal Tissue	11	0	0	407
BDE# 204	Animal Tissue	11	0	0	408
BDE# 205	Animal Tissue	11	0	0	409
BDE# 206	Animal Tissue	11	0	0	410
BDE# 207	Animal Tissue	11	0	0	411
BDE# 208	Animal Tissue	11	0	0	412
BDE# 25	Animal Tissue	11	0	0	413
BDE# 3	Animal Tissue	11	0	0	414
BDE# 30	Animal Tissue	11	0	0	415
BDE# 32	Animal Tissue	11	0	0	416
BDE# 33	Animal Tissue	11	0	0	417
BDE# 35	Animal Tissue	11	0	0	418
BDE# 37	Animal Tissue	11	0	0	419
BDE# 7	Animal Tissue	11	0	0	420
BDE# 75	Animal Tissue	11	0	0	421
BDE# 77	Animal Tissue	11	0	0	422
BDE# 8	Animal Tissue	11	0	0	423
BDE-TOTAL	Animal Tissue	11	0	0	424

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
BHC (Total)	Animal Tissue	12	0	0	425
C1-chrysenes	Animal Tissue	5	0	0	426
C1-dibenzothiophenes	Animal Tissue	5	0	0	427
C1-Fluoranthenes & Pyrenes	Animal Tissue	5	0	0	428
C1-fluorenes	Animal Tissue	5	0	0	429
C1-naphthalenes	Animal Tissue	5	0	0	430
C1-Phenanthrenes & Anthracenes	Animal Tissue	5	0	0	431
C2-chrysenes	Animal Tissue	5	0	0	432
C2-dibenzothiophenes	Animal Tissue	5	0	0	433
C2-fluorenes	Animal Tissue	5	0	0	434
C2-naphthalenes	Animal Tissue	5	0	0	435
C2-Phenanthrenes & Anthracenes	Animal Tissue	5	0	0	436
C3-chrysenes	Animal Tissue	5	0	0	437
C3-dibenzothiophenes	Animal Tissue	5	0	0	438
C3-fluorenes	Animal Tissue	5	0	0	439
C3-naphthalenes	Animal Tissue	5	0	0	440
C3-Phenanthrenes & Anthracenes	Animal Tissue	5	0	0	441
C4-chrysenes	Animal Tissue	5	0	0	442
C4-naphthalenes	Animal Tissue	5	0	0	443
C4-Phenanthrenes & Anthracenes	Animal Tissue	5	0	0	444
Cl4-PCDD	Animal Tissue	8	0	0	445
Cl4-PCDF	Animal Tissue	8	0	0	446
Cl5-PCDD	Animal Tissue	8	0	0	447
Cl5-PCDF	Animal Tissue	8	0	0	448
Cl6-PCDD	Animal Tissue	8	0	0	449

The required number of spike sample analyses were performed with the following exceptions.

Analyte	Lab Matrix	Number of Samples	Number of Spikes	Frequency (%)	See QA/QC Note No.
Cl6-PCDF	Animal Tissue	8	0	0	450
Cl7-PCDD	Animal Tissue	8	0	0	451
Cl7-PCDF	Animal Tissue	8	0	0	452
endosulfan I	Animal Tissue	12	0	0	453
OCDD	Animal Tissue	8	0	0	454
OCDF	Animal Tissue	8	0	0	455
PCB# 1	Animal Tissue	12	0	0	456
PCB# 10	Animal Tissue	12	0	0	457
PCB# 10	Water	1	0	0	458
PCB# 103	Animal Tissue	12	0	0	459
PCB# 103	Water	1	0	0	460
PCB# 104	Animal Tissue	12	0	0	461
PCB# 105	Animal Tissue	12	0	0	462
PCB# 106	Animal Tissue	12	0	0	463
PCB# 106	Water	1	0	0	464
PCB# 107	Animal Tissue	12	0	0	465
PCB# 107	Water	1	0	0	466
PCB# 108/124	Animal Tissue	12	0	0	467
PCB# 108/124	Water	1	0	0	468
PCB# 11	Animal Tissue	12	0	0	469
PCB# 11	Water	1	0	0	470
PCB# 110/115	Animal Tissue	12	0	0	471
PCB# 110/115	Water	1	0	0	472
PCB# 111	Animal Tissue	12	0	0	473
PCB# 111	Water	1	0	0	474
PCB# 112	Animal Tissue	12	0	0	475
PCB# 112	Water	1	0	0	476
PCB# 114	Animal Tissue	12	0	0	477
PCB# 117	Animal Tissue	12	0	0	478
PCB# 117	Water	1	0	0	479
PCB# 118	Animal Tissue	12	0	0	480
PCB# 12/13	Animal Tissue	12	0	0	481

The required number of spike sample analyses were performed with the following exceptions.

Analyte	Lab Matrix	Number of Samples	Number of Spikes	Frequency (%)	See QA/QC Note No.
PCB# 12/13	Water	1	0	0	482
PCB# 120	Animal Tissue	12	0	0	483
PCB# 120	Water	1	0	0	484
PCB# 121	Animal Tissue	12	0	0	485
PCB# 121	Water	1	0	0	486
PCB# 122	Animal Tissue	12	0	0	487
PCB# 122	Water	1	0	0	488
PCB# 123	Animal Tissue	12	0	0	489
PCB# 126	Animal Tissue	12	0	0	490
PCB# 127	Animal Tissue	12	0	0	491
PCB# 127	Water	1	0	0	492
PCB# 128/166	Animal Tissue	12	0	0	493
PCB# 128/166	Water	1	0	0	494
PCB# 129/138/163	Animal Tissue	12	0	0	495
PCB# 129/138/163	Water	1	0	0	496
PCB# 130	Animal Tissue	12	0	0	497
PCB# 130	Water	1	0	0	498
PCB# 131	Animal Tissue	12	0	0	499
PCB# 131	Water	1	0	0	500
PCB# 132	Animal Tissue	12	0	0	501
PCB# 132	Water	1	0	0	502
PCB# 133	Animal Tissue	12	0	0	503
PCB# 133	Water	1	0	0	504
PCB# 134	Animal Tissue	12	0	0	505
PCB# 134	Water	1	0	0	506
PCB# 135/151	Animal Tissue	12	0	0	507
PCB# 135/151	Water	1	0	0	508
PCB# 136	Animal Tissue	12	0	0	509
PCB# 136	Water	1	0	0	510
PCB# 137	Animal Tissue	12	0	0	511
PCB# 137	Water	1	0	0	512
PCB# 139/140	Animal Tissue	12	0	0	513

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 139/140	Water	1	0	0	514
PCB# 14	Animal Tissue	12	0	0	515
PCB# 14	Water	1	0	0	516
PCB# 141	Animal Tissue	12	0	0	517
PCB# 141	Water	1	0	0	518
PCB# 142	Animal Tissue	12	0	0	519
PCB# 142	Water	1	0	0	520
PCB# 143	Animal Tissue	12	0	0	521
PCB# 143	Water	1	0	0	522
PCB# 144	Animal Tissue	12	0	0	523
PCB# 144	Water	1	0	0	524
PCB# 145	Animal Tissue	12	0	0	525
PCB# 145	Water	1	0	0	526
PCB# 146	Animal Tissue	12	0	0	527
PCB# 146	Water	1	0	0	528
PCB# 147/149	Animal Tissue	12	0	0	529
PCB# 147/149	Water	1	0	0	530
PCB# 148	Animal Tissue	12	0	0	531
PCB# 148	Water	1	0	0	532
PCB# 15	Animal Tissue	12	0	0	533
PCB# 150	Animal Tissue	12	0	0	534
PCB# 150	Water	1	0	0	535
PCB# 152	Animal Tissue	12	0	0	536
PCB# 152	Water	1	0	0	537
PCB# 153/168	Animal Tissue	12	0	0	538
PCB# 153/168	Water	1	0	0	539
PCB# 154	Animal Tissue	12	0	0	540
PCB# 154	Water	1	0	0	541
PCB# 155	Animal Tissue	12	0	0	542
PCB# 156/157	Animal Tissue	12	0	0	543
PCB# 158	Animal Tissue	12	0	0	544
PCB# 158	Water	1	0	0	545

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 159	Animal Tissue	12	0	0	546
PCB# 159	Water	1	0	0	547
PCB# 16	Animal Tissue	12	0	0	548
PCB# 16	Water	1	0	0	549
PCB# 160	Animal Tissue	12	0	0	550
PCB# 160	Water	1	0	0	551
PCB# 161	Animal Tissue	12	0	0	552
PCB# 161	Water	1	0	0	553
PCB# 162	Animal Tissue	12	0	0	554
PCB# 162	Water	1	0	0	555
PCB# 164	Animal Tissue	12	0	0	556
PCB# 164	Water	1	0	0	557
PCB# 165	Animal Tissue	12	0	0	558
PCB# 165	Water	1	0	0	559
PCB# 167	Animal Tissue	12	0	0	560
PCB# 169	Animal Tissue	12	0	0	561
PCB# 17	Animal Tissue	12	0	0	562
PCB# 17	Water	1	0	0	563
PCB# 170	Animal Tissue	12	0	0	564
PCB# 170	Water	1	0	0	565
PCB# 171/173	Animal Tissue	12	0	0	566
PCB# 171/173	Water	1	0	0	567
PCB# 172	Animal Tissue	12	0	0	568
PCB# 172	Water	1	0	0	569
PCB# 174	Animal Tissue	12	0	0	570
PCB# 174	Water	1	0	0	571
PCB# 175	Animal Tissue	12	0	0	572
PCB# 175	Water	1	0	0	573
PCB# 176	Animal Tissue	12	0	0	574
PCB# 176	Water	1	0	0	575
PCB# 177	Animal Tissue	12	0	0	576
PCB# 177	Water	1	0	0	577

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 178	Animal Tissue	12	0	0	578
PCB# 178	Water	1	0	0	579
PCB# 179	Animal Tissue	12	0	0	580
PCB# 179	Water	1	0	0	581
PCB# 18/30	Animal Tissue	12	0	0	582
PCB# 18/30	Water	1	0	0	583
PCB# 180/193	Animal Tissue	12	0	0	584
PCB# 180/193	Water	1	0	0	585
PCB# 181	Animal Tissue	12	0	0	586
PCB# 181	Water	1	0	0	587
PCB# 182	Animal Tissue	12	0	0	588
PCB# 182	Water	1	0	0	589
PCB# 183	Animal Tissue	12	0	0	590
PCB# 183	Water	1	0	0	591
PCB# 184	Animal Tissue	12	0	0	592
PCB# 184	Water	1	0	0	593
PCB# 185	Animal Tissue	12	0	0	594
PCB# 185	Water	1	0	0	595
PCB# 186	Animal Tissue	12	0	0	596
PCB# 186	Water	1	0	0	597
PCB# 187	Animal Tissue	12	0	0	598
PCB# 187	Water	1	0	0	599
PCB# 188	Animal Tissue	12	0	0	600
PCB# 189	Animal Tissue	12	0	0	601
PCB# 19	Animal Tissue	12	0	0	602
PCB# 190	Animal Tissue	12	0	0	603
PCB# 190	Water	1	0	0	604
PCB# 191	Animal Tissue	12	0	0	605
PCB# 191	Water	1	0	0	606
PCB# 192	Animal Tissue	12	0	0	607
PCB# 192	Water	1	0	0	608
PCB# 194	Animal Tissue	12	0	0	609

The required number of spike sample analyses were performed with the following exceptions.

Analyte	Lab Matrix	Number of Samples	Number of Spikes	Frequency (%)	See QA/QC Note No.
PCB# 194	Water	1	0	0	610
PCB# 195	Animal Tissue	12	0	0	611
PCB# 195	Water	1	0	0	612
PCB# 196	Animal Tissue	12	0	0	613
PCB# 196	Water	1	0	0	614
PCB# 197	Animal Tissue	12	0	0	615
PCB# 197	Water	1	0	0	616
PCB# 198/199	Animal Tissue	12	0	0	617
PCB# 198/199	Water	1	0	0	618
PCB# 2	Animal Tissue	12	0	0	619
PCB# 2	Water	1	0	0	620
PCB# 20/28	Animal Tissue	12	0	0	621
PCB# 20/28	Water	1	0	0	622
PCB# 200	Animal Tissue	12	0	0	623
PCB# 200	Water	1	0	0	624
PCB# 201	Animal Tissue	12	0	0	625
PCB# 201	Water	1	0	0	626
PCB# 202	Animal Tissue	12	0	0	627
PCB# 203	Animal Tissue	12	0	0	628
PCB# 203	Water	1	0	0	629
PCB# 204	Animal Tissue	12	0	0	630
PCB# 204	Water	1	0	0	631
PCB# 205	Animal Tissue	12	0	0	632
PCB# 206	Animal Tissue	12	0	0	633
PCB# 207	Animal Tissue	12	0	0	634
PCB# 207	Water	1	0	0	635
PCB# 208	Animal Tissue	12	0	0	636
PCB# 209	Animal Tissue	12	0	0	637
PCB# 21/33	Animal Tissue	12	0	0	638
PCB# 21/33	Water	1	0	0	639
PCB# 22	Animal Tissue	12	0	0	640
PCB# 22	Water	1	0	0	641

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 23	Animal Tissue	12	0	0	642
PCB# 23	Water	1	0	0	643
PCB# 24	Animal Tissue	12	0	0	644
PCB# 24	Water	1	0	0	645
PCB# 25	Animal Tissue	12	0	0	646
PCB# 25	Water	1	0	0	647
PCB# 26/29	Animal Tissue	12	0	0	648
PCB# 26/29	Water	1	0	0	649
PCB# 27	Animal Tissue	12	0	0	650
PCB# 27	Water	1	0	0	651
PCB# 3	Animal Tissue	12	0	0	652
PCB# 31	Animal Tissue	12	0	0	653
PCB# 31	Water	1	0	0	654
PCB# 32	Animal Tissue	12	0	0	655
PCB# 32	Water	1	0	0	656
PCB# 34	Animal Tissue	12	0	0	657
PCB# 34	Water	1	0	0	658
PCB# 35	Animal Tissue	12	0	0	659
PCB# 35	Water	1	0	0	660
PCB# 36	Animal Tissue	12	0	0	661
PCB# 36	Water	1	0	0	662
PCB# 37	Animal Tissue	12	0	0	663
PCB# 38	Animal Tissue	12	0	0	664
PCB# 38	Water	1	0	0	665
PCB# 39	Animal Tissue	12	0	0	666
PCB# 39	Water	1	0	0	667
PCB# 4	Animal Tissue	12	0	0	668
PCB# 40/41/70	Animal Tissue	12	0	0	669
PCB# 40/41/70	Water	1	0	0	670
PCB# 42	Animal Tissue	12	0	0	671
PCB# 42	Water	1	0	0	672
PCB# 43/73	Animal Tissue	12	0	0	673

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 43/73	Water	1	0	0	674
PCB# 44/47/65	Animal Tissue	12	0	0	675
PCB# 44/47/65	Water	1	0	0	676
PCB# 45/51	Animal Tissue	12	0	0	677
PCB# 45/51	Water	1	0	0	678
PCB# 46	Animal Tissue	12	0	0	679
PCB# 46	Water	1	0	0	680
PCB# 48	Animal Tissue	12	0	0	681
PCB# 48	Water	1	0	0	682
PCB# 49/69	Animal Tissue	12	0	0	683
PCB# 49/69	Water	1	0	0	684
PCB# 5	Animal Tissue	12	0	0	685
PCB# 5	Water	1	0	0	686
PCB# 50/53	Animal Tissue	12	0	0	687
PCB# 50/53	Water	1	0	0	688
PCB# 52	Animal Tissue	12	0	0	689
PCB# 52	Water	1	0	0	690
PCB# 54	Animal Tissue	12	0	0	691
PCB# 55	Animal Tissue	12	0	0	692
PCB# 55	Water	1	0	0	693
PCB# 56	Animal Tissue	12	0	0	694
PCB# 56	Water	1	0	0	695
PCB# 57	Animal Tissue	12	0	0	696
PCB# 57	Water	1	0	0	697
PCB# 58	Animal Tissue	12	0	0	698
PCB# 58	Water	1	0	0	699
PCB# 59/62/75	Animal Tissue	12	0	0	700
PCB# 59/62/75	Water	1	0	0	701
PCB# 6	Animal Tissue	12	0	0	702
PCB# 6	Water	1	0	0	703
PCB# 60	Animal Tissue	12	0	0	704
PCB# 60	Water	1	0	0	705

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 63	Animal Tissue	12	0	0	706
PCB# 63	Water	1	0	0	707
PCB# 64	Animal Tissue	12	0	0	708
PCB# 64	Water	1	0	0	709
PCB# 66	Animal Tissue	12	0	0	710
PCB# 66	Water	1	0	0	711
PCB# 67	Animal Tissue	12	0	0	712
PCB# 67	Water	1	0	0	713
PCB# 68	Animal Tissue	12	0	0	714
PCB# 68	Water	1	0	0	715
PCB# 7	Animal Tissue	12	0	0	716
PCB# 7	Water	1	0	0	717
PCB# 70/61/74/76	Animal Tissue	12	0	0	718
PCB# 70/61/74/76	Water	1	0	0	719
PCB# 72	Animal Tissue	12	0	0	720
PCB# 72	Water	1	0	0	721
PCB# 77	Animal Tissue	12	0	0	722
PCB# 78	Animal Tissue	12	0	0	723
PCB# 78	Water	1	0	0	724
PCB# 79	Animal Tissue	12	0	0	725
PCB# 79	Water	1	0	0	726
PCB# 8	Animal Tissue	12	0	0	727
PCB# 8	Water	1	0	0	728
PCB# 80	Animal Tissue	12	0	0	729
PCB# 80	Water	1	0	0	730
PCB# 81	Animal Tissue	12	0	0	731
PCB# 82	Animal Tissue	12	0	0	732
PCB# 82	Water	1	0	0	733
PCB# 83/99	Animal Tissue	12	0	0	734
PCB# 83/99	Water	1	0	0	735
PCB# 84	Animal Tissue	12	0	0	736
PCB# 84	Water	1	0	0	737

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
PCB# 85/116	Animal Tissue	12	0	0	738
PCB# 85/116	Water	1	0	0	739
PCB# 86/87/97/109/119/125	Animal Tissue	12	0	0	740
PCB# 86/87/97/109/119/125	Water	1	0	0	741
PCB# 88/91	Animal Tissue	12	0	0	742
PCB# 88/91	Water	1	0	0	743
PCB# 89	Animal Tissue	12	0	0	744
PCB# 89	Water	1	0	0	745
PCB# 9	Animal Tissue	12	0	0	746
PCB# 9	Water	1	0	0	747
PCB# 90/101/113	Animal Tissue	12	0	0	748
PCB# 90/101/113	Water	1	0	0	749
PCB# 92	Animal Tissue	12	0	0	750
PCB# 92	Water	1	0	0	751
PCB# 94	Animal Tissue	12	0	0	752
PCB# 94	Water	1	0	0	753
PCB# 95	Animal Tissue	12	0	0	754
PCB# 95	Water	1	0	0	755
PCB# 96	Animal Tissue	12	0	0	756
PCB# 96	Water	1	0	0	757
PCB# 98/100	Animal Tissue	12	0	0	758
PCB# 98/100	Water	1	0	0	759
PCB# 98/102	Animal Tissue	12	0	0	760
PCB# 98/102	Water	1	0	0	761
PCB-1242	Animal Tissue	12	0	0	762
PCB-1242	Water	1	0	0	763
PCB-1248	Animal Tissue	12	0	0	764
PCB-1248	Water	1	0	0	765

The required number of spike sample analyses were performed with the following exceptions.					
Analyte	**Lab Matrix**	**Number of Samples**	**Number of Spikes**	**Frequency (%)**	**See QA/QC Note No.**
PCB-1254	Animal Tissue	12	0	0	766
PCB-1254	Water	1	0	0	767
PCB-1260	Animal Tissue	12	0	0	768
PCB-1260	Water	1	0	0	769
PCB-TOTAL	Animal Tissue	12	0	0	770
PCB-TOTAL	Water	1	0	0	771
Total DDT's	Animal Tissue	12	0	0	772
toxaphene	Animal Tissue	12	0	0	773
1,2,3,4,6,7,8-HpCDD	Water	0	1	0	774
1,2,3,4,6,7,8-HpCDF	Water	0	1	0	775
1,2,3,4,7,8,9-HpCDF	Water	0	1	0	776
1,2,3,4,7,8-HxCDD	Water	0	1	0	777
1,2,3,4,7,8-HxCDF	Water	0	1	0	778
1,2,3,6,7,8-HxCDD	Water	0	1	0	779
1,2,3,6,7,8-HxCDF	Water	0	1	0	780
1,2,3,7,8,9-HxCDD	Water	0	1	0	781
1,2,3,7,8,9-HxCDF	Water	0	1	0	782
1,2,3,7,8-PeCDD	Water	0	1	0	783
1,2,3,7,8-PeCDF	Water	0	1	0	784
2,3,4,6,7,8-HxCDF	Water	0	1	0	785
2,3,4,7,8-PeCDF	Water	0	1	0	786
2,3,7,8-TCDD	Water	0	1	0	787
2,3,7,8-TCDF	Water	0	1	0	788
OCDD	Water	0	1	0	789
OCDF	Water	0	1	0	790

11.4. Reference Material Frequency Anomalies

No Standard Reference Material data exists in this set of results; therefore, the anomaly test was not performed.

11.5. Mass Spec Frequency Anomalies

The required number of mass spec confirmations were performed with the following exceptions.				
Lab Matrix	**Number of Analytes**	**Number of Confirmations**	**Frequency (%)**	**See QA/QC Note No.**
Animal Tissue	94	0	0	791

11.6. Limit of Detection Anomalies

Limits of Detection were within the contract requirements with the following exceptions.							
Analyte	**Sample Number**	**Lab Matrix**	*** CRDL (ppm/%)**	**Basis**	**Acceptable To (ppm/%)**	**LOD (ppm/%)**	**See QA/QC Note No.**
BDE# 209	4-08-1	Animal Tissue	0.0001	Wet	0.000300	0.00147	792
BDE# 209	7-06-6	Animal Tissue	0.0001	Wet	0.000300	0.00137	793
BDE# 209	4-08-2	Animal Tissue	0.0001	Wet	0.000300	0.00144	794
BDE# 209	7-06-1	Animal Tissue	0.0001	Wet	0.000300	0.00145	795
BDE# 209	7-06-2	Animal Tissue	0.0001	Wet	0.000300	0.00146	796
BDE# 209	7-06-3	Animal Tissue	0.0001	Wet	0.000300	0.00147	797
BDE# 209	4-08-6	Animal Tissue	0.0001	Wet	0.000300	0.00143	798
BDE# 209	4-08-4	Animal Tissue	0.0001	Wet	0.000300	0.00149	799
BDE# 209	7-06-4	Animal Tissue	0.0001	Wet	0.000300	0.00141	800
BDE# 209	7-06-5	Animal Tissue	0.0001	Wet	0.000300	0.00142	801
BDE# 209	4-08-3	Animal Tissue	0.0001	Wet	0.000300	0.00145	802
BDE# 85	7-06-6	Animal Tissue	0.0001	Wet	0.000300	0.000364	803
BDE# 85	7-06-1	Animal Tissue	0.0001	Wet	0.000300	0.000384	804
BDE# 85	4-08-6	Animal Tissue	0.0001	Wet	0.000300	0.000380	805
BDE# 85	7-06-5	Animal Tissue	0.0001	Wet	0.000300	0.000377	806
BDE# 85	4-08-2	Animal Tissue	0.0001	Wet	0.000300	0.000383	807
BDE# 85	4-08-3	Animal Tissue	0.0001	Wet	0.000300	0.000384	808
BDE# 85	4-08-1	Animal Tissue	0.0001	Wet	0.000300	0.000391	809
BDE# 85	7-06-2	Animal Tissue	0.0001	Wet	0.000300	0.000387	810

* CRDL = Contract Required Detection Limit.

11.7. Blank Anomalies

Procedural Blank analyses were acceptable with the following exceptions.					
Analyte	**Lab Matrix**	*** BEC (ppm/%)**	**LOD (ppm/%)**	**Basis**	**See QA/QC Note No.**
PCB# 11	Water	0.000581	0.00004	Wet	811
PCB# 11	Water	8.32E-7	2E-7	Wet	812
PCB-TOTAL	Water	0.0024	0.0002	Wet	813
PCB-TOTAL	Water	0.00000386	0.000001	Wet	814

* BEC = Blank Equivalent Concentration.

11.8. Duplicate Anomalies

All duplicate results were within normal limits.

11.9. Spike Anomalies

All spike results were within normal limits with the following exceptions.									
Analyte	**Sample Number**	**Lab Matrix**	**Sample Result ppm/%**	**LOD ppm/%**	**Spike Result ppm/%**	**Spike Level ppm/%**	**% Recovery**	**Spike / Background**	**See QA/QC Note No.**
endosulfan II	10-06-3	Animal Tissue	< 0.000148	0.000148	0.00235	0.00790	29.7	53.4	815
n-heptacosane	1-08-6	Animal Tissue	0.132	0.0140	1.39	1.90	66.1	14.4	816
n-pentacosane	1-08-6	Animal Tissue	0.353	0.0162	1.77	1.92	73.8	5.43	817

11.10. S.R.M. Anomalies

No SRM data exists in this set of results; therefore, the anomaly test was not performed.

11.11. QA/QC Notes

QA/QC Note Number and Comments
Additional TDI Comments: 06385810 (Water) Insufficient sample for analysis. per Juan. ACF Comments: 1-4 Other PCB blank analyses were performed. This is acceptable. 5-371 A blank spike duplicate analyses was performed. This is acceptable. 372-790 A Blank spike analyses was performed. This is acceptable 791 Analyte detectable levels were to low for mass spec confirmation. 792-810 These LODs were higher than the ECDMS default. They are acceptable. 811-814 These analytes were reported present in the blank. Results that are less than ten times the amount found in the blank are considered non-detects. 815-817 The spike recoveries for these analytes were low. Results may be Biased low. QA/QC reviewed 04/06/2010 Walter Riley

12. Analytical Methods

Below are the analytical methods used by TDI to produce the results included in this report.

Method Codes:	001

Lab Matrix	Analyte
Animal Tissue	% Lipid
	% Moisture

Method Code: 001

LABORATORY: TDI Brooks International, Inc.

Tissue Extraction Method (PAH and OCs)

Tissue samples are either immediately processed or stored frozen (-20°C) until processing. Tissues are processed as appropriate for the tissue type (e.g. dissection, shucking). Processed tissues are homogenized using a variety of mechanical methods (Waring blender, Hobart meat grinder or Tissumisser), depending upon the tissue amount and type. After homogenization, an approximate 1 g aliquot is removed and dried in an oven at 105°C to a constant weight to determine % moisture. The remaining samples are stored in certified pre-cleaned jars frozen (- 20°C) until analysis. Prior to extraction, tissue samples may be lypholized or a wet aliquot is chemically dried using a dessicant such as Hydromatrix or sodium sulfate. Samples are then extracted using a Dionex ASE200 Accelerated Solvent Extractor (ASE). The dried sample or the sample and dessicant material is loaded into 22 or 33 mL stainless steel ASE extraction tubes. The extraction are performed using 100% dicholormethane at 100°C and 2000 psi. The extracted organics dissolved in the solvent are collected in 60 mL glass vials. The extract is concentrated to approximately 10 mL in the collection vials and then transferred to 25 mL Kurdena-Danish (KD) concentrator tubes. The sample extract is concentrated to 3 mL in a water bath at 55-60°C. If lipid weight is required, a 100 mL aliquot is removed and weighed using a microbalance. Interfering non-contaminant organic material (primarily lipids) must be removed prior to instrument analyses.

The extract is processed through silica gel/alumina chromatography columns and High Performance Liquid Chromatography (HPLC). The remaining 2.9 mL of sample extracted are loaded on top of 300 mm x 19 mm glass liquid chromatography columns packed with 10 g of deactivated alumina and 20 g of deactivated silica gel. The columns are loaded in 100 % dichloromethane. The dichloromethane is replaced by adding 40 mL of pentane. The extract is carefully added to the top of the chromatography columns. The column is flushed at a rate of 1-2 mL per minute using 200 mL of 50:50 pentane/dichloromethane and collected into 250 mL flasks. The eluent collected in the 250 mL flask is evaporated to 2 mL using a waterbath at 55-50°C. The samples is transferred into 4 mL amber vials. Extracts subsequently processed by HPLC to further remove lipid interferences. Lipid removal is accomplished by flushing samples with dichlormethane through size exclusion Phenogel 10 m GPC 100 A columns. Approximately 40 mL is collected using a fraction collector, which is concentrated to 0.5 mL using a water bath at 55-60C. The concentrated extract is then analyzed by GC/MS for polynuclear aromatic hydrocarbons (PAHs) or GC/ECD for selected organochlorines (OCs).

Additional column chromatography is required to separate PCBs from toxaphene/pesticides when toxphene analysis is required and to separate planar PCBs. If toxaphene analyses is required, an aliquot of the extract prior to HPLC clean up is processed through a 3% deactivated silica gel column. The column is packed in dicloromethane which is then flushed with 50 mL of pentane. The sample extract is transferred to the top of the column and flushed with 100 mL of pentane. The fraction contains PCBs and DDTs. The column is then flushed with 120 mL of 50:50 pentane/dichloromethane. This fraction contains toxaphene and chlorinated pesticides. Both fractions are reduced to 1 mL using a water bath at 55-60°C. The extracts are then ready for instrument analysis.

If planar PCB analyses are required, the PCB/DDT fraction prepared by 3% silica gel column is further processed by column chromatography packed with 2 g of 1:19 (5% by weight) mixture of activated carbon/Celite. The column and flushed with 25 mL of 1:4 dichloromethane/cyclohexane mixture. The sample is added to the top of the column and flushed with 50 mL of 1:4 dichloromethane/cyclohexane mixture, followed by 30 mL of 9:1 dichloromethane/toluene. This is followed by the addition of 40 mL of toluene. The toluene fraction contains the planar PCBs and is concentrated to 1 mL in a Zymark TurboVap II concentrator at 42°C and 20 psi. The sample is ready for instrument analysis.

REFERENCES:

Lauenstein, G.G. and A.Y. Cantillo, ed. (1993). Sampling Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects 1984-1992; Volume IV: Comprehensive Descriptions of Trace Organic Analytical Methods. NOAA Technical memorandum NOS ORCA 71, Silver Spring, MD.

U.S. Environmental Protection Agency. 2001. National Coastal Assessment Quality Assurance Project Plan 2001-2004. United States Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. EPA/620/R-01/002.

Environmental Protection Agency, "Method 3545: Pressurized Fluid Extraction (PFE)," in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods EPA SW-846 [Version 2 (December 1997), Integrated Manual through Update III] Washington DC, U.S. Environmental Protection Agency (1997)

Zuloaga, O.; Etxebarria, N.; Fernandez L. A.;Madariaga, J.M.; Optimization and comparison of MAE, ASE and Soxhlet extraction for the determination of HCH isomers in soil samples. Fresenius J Anal Chem, 2000, 367, 733-737.

Schantz, M.; Nichols, J. J.; Wise, S. A.; Evaluation of Pressurized Fluid Extraction for the Extraction of Environmental Matrix Reference Material, Anal. Chem., 1997, 69, 4210-4219.

Method Codes:	001 002

Lab Matrix	Analyte
Animal Tissue	1,6,7-Trimethyl-naphthalene
	1-methylnaphthalene

1-methylphenanthrene
2,6-dimethylnaphthalene
2-methylnaphthalene
Benzo(a)anthracene
C1-Fluoranthenes & Pyrenes
C1-Phenanthrenes & Anthracenes
C1-chrysenes
C1-dibenzothiophenes
C1-fluorenes
C1-naphthalenes
C2-Phenanthrenes & Anthracenes
C2-chrysenes
C2-dibenzothiophenes
C2-fluorenes
C2-naphthalenes
C3-Phenanthrenes & Anthracenes
C3-chrysenes
C3-dibenzothiophenes
C3-fluorenes
C3-naphthalenes
C4-Phenanthrenes & Anthracenes
C4-chrysenes
C4-naphthalenes
Dibenz(a,h)anthracene
acenaphthalene
acenaphthene
anthracene
benzo(a)pyrene
benzo(b)fluoranthene
benzo(e)pyrene
benzo(g,h,i)perylene
benzo(k)fluoranthene
biphenyl
chrysene

dibenzothiophene
fluoranthene
fluorene
indeno(1,2,3-cd)pyrene
naphthalene
perylene
phenanthrene
pyrene

Method Code: 001

LABORATORY: TDI Brooks International, Inc.

Tissue Extraction Method (PAH and OCs)

Tissue samples are either immediately processed or stored frozen (-20°C) until processing. Tissues are processed as appropriate for the tissue type (e.g. dissection, shucking). Processed tissues are homogenized using a variety of mechanical methods (Waring blender, Hobart meat grinder or Tissumisser), depending upon the tissue amount and type. After homogenization, an approximate 1 g aliquot is removed and dried in an oven at 105°C to a constant weight to determine % moisture. The remaining samples are stored in certified pre-cleaned jars frozen (- 20°C) until analysis. Prior to extraction, tissue samples may be lypholized or a wet aliquot is chemically dried using a dessicant such as Hydromatrix or sodium sulfate. Samples are then extracted using a Dionex ASE200 Accelerated Solvent Extractor (ASE). The dried sample or the sample and dessicant material is loaded into 22 or 33 mL stainless steel ASE extraction tubes. The extraction are performed using 100% dicholormethane at 100°C and 2000 psi. The extracted organics dissolved in the solvent are collected in 60 mL glass vials. The extract is concentrated to approximately 10 mL in the collection vials and then transferred to 25 mL Kurdena-Danish (KD) concentrator tubes. The sample extract is concentrated to 3 mL in a water bath at 55-60°C. If lipid weight is required, a 100 mL aliquot is removed and weighed using a microbalance. Interfering non-contaminant organic material (primarily lipids) must be removed prior to instrument analyses.

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Additional column chromatography is required to separate PCBs from toxaphene/pesticides when toxphene analysis is required

and to separate planar PCBs. If toxaphene analyses is required, an aliquot of the extract prior to HPLC clean up is processed through a 3% deactivated silica gel column. The column is packed in dicloromethane which is then flushed with 50 mL of pentane. The sample extract is transferred to the top of the column and flushed with 100 mL of pentane. The fraction contains PCBs and DDTs. The column is then flushed with 120 mL of 50:50 pentane/dichloromethane. This fraction contains toxaphene and chlorinated pesticides. Both fractions are reduced to 1 mL using a water bath at 55-60°C. The extracts are then ready for instrument analysis.

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U.S. Environmental Protection Agency. 2001. National Coastal Assessment Quality Assurance Project Plan 2001-2004. United States Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. EPA/620/R-01/002.

Environmental Protection Agency, "Method 3545: Pressurized Fluid Extraction (PFE)," in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods EPA SW-846 [Version 2 (December 1997), Integrated Manual through Update III] Washington DC, U.S. Environmental Protection Agency (1997)

Zuloaga, O.; Etxebarria, N.; Fernandez L. A.;Madariaga, J.M.; Optimization and comparison of MAE, ASE and Soxhlet extraction for the determination of HCH isomers in soil samples. Fresenius J Anal Chem, 2000, 367, 733-737.

Schantz, M.; Nichols, J. J.; Wise, S. A.; Evaluation of Pressurized Fluid Extraction for the Extraction of Environmental Matrix Reference Material, Anal. Chem., 1997, 69, 4210-4219.

Method Code: 002

LABORATORY: TDI Brooks International, Inc.

Aromatic Hydrocarbon Determination by Selected Ion Monitoring (SIM) Gas Chromatography/ Mass Spectrometry (GC/MS)

Polycyclic aromatic hydrocarbons (PAH) and their alkylated homologues are analyzed in sample extracts by a HewlettPackard, model 5890 GS and model 5972 MS operated in SIM using a capillary column. The GC is operated in splitless mode and the capillary column is an Agilent Technologies HP-5MS (60 m x 0.25 mm ID and 0.25 mm film thickness). The carrier gas is helium at

a flow rate of 1 mL/minute. The temperature of the injection port is 300°C and transfer line is 290°C. The initial oven temperature is 60°C, the ramp rate is 7°C/minutes to a final oven temperature of 310°C and held for 20 minutes. For analyte identification, the extracted ion current profiles of the primary m/z and the confirmatory ion for each analyte must be at a maximum in the same scan or within one scan of each other and the retention time must fall with 5 seconds of the retention time of the authentic standard or alkyl homologue grouping. The pattern of alkylated PAH homologue groupings is established by analysis of reference oil standards. The relative peak heights of the primary mass ion compared to the confirmation or secondary mass ion must fall within 30 % of the relative intensities of these masses in a reference mass spectrum.

REFERENCES:

Lauenstein, G.G. and A.Y. Cantillo, ed. (1993). Sampling Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects 1984-1992; Volume IV: Comprehensive Descriptions of Trace Organic Analytical Methods. NOAA Technical memorandum NOS ORCA 71, Silver Spring, MD.

U.S. Environmental Protection Agency. 2001. National Coastal Assessment Quality Assurance Project Plan 2001-2004. United States Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. EPA/620/R-01/002.

Method Codes:	001 003

Lab Matrix	Analyte
Animal Tissue	1,2,3,4-Tetrachlorobenzene
	1,2,4,5-Tetrachlorobenzene
	Aldrin
	BHC (Total)
	DDMU
	HCB
	Heptachlor
	Pentachlorobenzene
	Total DDT's
	alpha BHC
	alpha chlordane
	beta BHC
	chlorpyrifos
	cis-nonachlor
	delta BHC

dieldrin
endosulfan I
endosulfan II
endosulfan sulfate
endrin
gamma BHC
gamma chlordane
heptachlor epoxide
mirex
o,p'-DDD
o,p'-DDE
o,p'-DDT
oxychlordane
p,p'-DDD
p,p'-DDE
p,p'-DDT
pentachloro-anisole
toxaphene
trans-nonachlor

Method Code: 001

LABORATORY: TDI Brooks International, Inc.

Tissue Extraction Method (PAH and OCs)

Tissue samples are either immediately processed or stored frozen (-20°C) until processing. Tissues are processed as appropriate for the tissue type (e.g. dissection, shucking). Processed tissues are homogenized using a variety of mechanical methods (Waring blender, Hobart meat grinder or Tissumisser), depending upon the tissue amount and type. After homogenization, an approximate 1 g aliquot is removed and dried in an oven at 105°C to a constant weight to determine % moisture. The remaining samples are stored in certified pre-cleaned jars frozen (- 20°C) until analysis. Prior to extraction, tissue samples may be lypholized or a wet aliquot is chemically dried using a dessicant such as Hydromatrix or sodium sulfate. Samples are then extracted using a Dionex ASE200 Accelerated Solvent Extractor (ASE). The dried sample or the sample and dessicant material is loaded into 22 or 33 mL stainless steel ASE extraction tubes. The extraction are performed using 100% dicholormethane at 100°C and 2000 psi. The extracted organics dissolved in the solvent are collected in 60 mL glass vials. The extract is concentrated to approximately 10 mL in the collection vials and then transferred to 25 mL Kurdena-Danish (KD) concentrator tubes. The sample extract is concentrated to 3 mL in a water bath at 55-60°C. If lipid weight is required, a 100 mL aliquot is removed and weighed using a microbalance. Interfering non-contaminant organic material (primarily lipids) must be removed prior to instrument analyses.

The extract is processed through silica gel/alumina chromatography columns and High Performance Liquid Chromatography (HPLC). The remaining 2.9 mL of sample extracted are loaded on top of 300 mm x 19 mm glass liquid chromatography columns packed with 10 g of deactivated alumina and 20 g of deactivated silica gel. The columns are loaded in 100 % dichloromethane. The dichloromethane is replaced by adding 40 mL of pentane. The extract is carefully added to the top of the chromatography columns. The column is flushed at a rate of 1-2 mL per minute using 200 mL of 50:50 pentane/dichloromethane and collected into 250 mL flasks. The eluent collected in the 250 mL flask is evaporated to 2 mL using a waterbath at 55-50°C. The samples is transferred into 4 mL amber vials. Extracts subsequently processed by HPLC to further remove lipid interferences. Lipid removal is accomplished by flushing samples with dichlormethane through size exclusion Phenogel 10 m GPC 100 A columns. Approximately 40 mL is collected using a fraction collector, which is concentrated to 0.5 mL using a water bath at 55-60C. The concentrated extract is then analyzed by GC/MS for polynuclear aromatic hydrocarbons (PAHs) or GC/ECD for selected organochlorines (OCs).

Additional column chromatography is required to separate PCBs from toxaphene/pesticides when toxphene analysis is required and to separate planar PCBs. If toxaphene analyses is required, an aliquot of the extract prior to HPLC clean up is processed through a 3% deactivated silica gel column. The column is packed in dicloromethane which is then flushed with 50 mL of pentane. The sample extract is transferred to the top of the column and flushed with 100 mL of pentane. The fraction contains PCBs and DDTs. The column is then flushed with 120 mL of 50:50 pentane/dichloromethane. This fraction contains toxaphene and chlorinated pesticides. Both fractions are reduced to 1 mL using a water bath at 55-60°C. The extracts are then ready for instrument analysis.

If planar PCB analyses are required, the PCB/DDT fraction prepared by 3% silica gel column is further processed by column chromatography packed with 2 g of 1:19 (5% by weight) mixture of activated carbon/Celite. The column and flushed with 25 mL of 1:4 dichloromethane/cyclohexane mixture. The sample is added to the top of the column and flushed with 50 mL of 1:4 dichloromethane/cyclohexane mixture, followed by 30 mL of 9:1 dichloromethane/toluene. This is followed by the addition of 40 mL of toluene. The toluene fraction contains the planar PCBs and is concentrated to 1 mL in a Zymark TurboVap II concentrator at 42°C and 20 psi. The sample is ready for instrument analysis.

REFERENCES:

Lauenstein, G.G. and A.Y. Cantillo, ed. (1993). Sampling Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects 1984-1992; Volume IV: Comprehensive Descriptions of Trace Organic Analytical Methods. NOAA Technical memorandum NOS ORCA 71, Silver Spring, MD.

U.S. Environmental Protection Agency. 2001. National Coastal Assessment Quality Assurance Project Plan 2001-2004. United States Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. EPA/620/R-01/002.

Environmental Protection Agency, "Method 3545: Pressurized Fluid Extraction (PFE)," in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods EPA SW-846 [Version 2 (December 1997), Integrated Manual through Update III] Washington DC, U.S. Environmental Protection Agency (1997)

Zuloaga, O.; Etxebarria, N.; Fernandez L. A.;Madariaga, J.M.; Optimization and comparison of MAE, ASE and Soxhlet extraction for the determination of HCH isomers in soil samples. Fresenius J Anal Chem, 2000, 367, 733-737.

Schantz, M.; Nichols, J. J.; Wise, S. A.; Evaluation of Pressurized Fluid Extraction for the Extraction of Environmental Matrix Reference Material, Anal. Chem., 1997, 69, 4210-4219.

Method Code: 003

LABORATORY: TDI Brooks International, Inc.

Chlorinated Hydrocarbon Determination by Gas Chromatography/Electron Capture Detection (GC/ECD)

Chlorinated hydrocarbons are determined in samples by GC/ECD. Samples are extracted as previously described and analyzed on a HewletPackard (HP), model 5890 GC equipped with an ECD. Between 1 to 5 mL of sample is injected using an HP, model 7673A autosampler. The instrument is set up with dual columns. The primary capillary column is a J&W DB-5 (30 m x 24 mm ID and 0.25 mm film thickness). The second column, a confirmation column, is a J&W DB-17HT (30 m x 0.25 mm ID and 0.15 mm film thickness). The inlet system is splitless and the carrier gas is helium at a flow rate of 1 mL/min. For the analysis of standard halogenated hydrocarbons, the temperature of the injection port is 275°C and the detector is 325°C. The initial oven temperature is 100°C with a hold time of 1 minute. The ramp rate is 5°C/minute to 140°C with a hold time of 1 minute, followed by a ramp rate of 1.5°C /minute to 250C with a hold time of 1 minute and finally a ramp rate of 10°C/minutes to 300°C with a final hold time of 5 minutes. For planar PCBs the instrument is operated in the splitless mode with helium as the carrier gas with a flow rate of 1 mL/minute. The temperature of the injection port is 275°C and the detector is 325°C. The initial oven temperature is 100°C, which is held for 1 minute. The ramp rate is 10°C/minute to 150°C, followed by a ramp rate of 6.0°C/minute to 270°C with a hold time of 3 minutes. The retention time of sample analytes must fall within 15 seconds of the retention time of analytes in a calibration standard or a retention index solutions. The levels of aroclors and toxophene are determined using retention index solutions of both complex mixtures. Arochlors are determined in a similar method to that described in EPA SW-846 Test Methods for Evaluating Solid Waste Physical/Chemical Methods, Method 8082 (1997).

REFERENCES:

Lauenstein, G.G. and A.Y. Cantillo, ed. (1993). Sampling Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects 1984-1992; Volume IV: Comprehensive Descriptions of Trace Organic Analytical Methods. NOAA Technical memorandum NOS ORCA 71, Silver Spring, MD.

U.S. Environmental Protection Agency. 2001. National Coastal Assessment Quality Assurance Project Plan 2001-2004. United States Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. EPA/620/R-01/002.

Environmental Protection Agency, "Method 8082: Polychlorinated Biphenls (PCBs) by Gas Chromatography," in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods EPA SW-846 [Version 2 (December 1997), Integrated Manual through Update III] Washington DC, U.S. Environmental Protection Agency (1997)

Method Codes:	001 009

Lab Matrix	Analyte
Animal Tissue	n-decane
	n-docosane
	n-dodecane
	n-dotriacontane
	n-eicosane
	n-heneicosane
	n-hentriacontane
	n-heptacosane
	n-heptadecane
	n-hexacosane
	n-hexadecane
	n-nonacosane
	n-nonadecane
	n-octacosane
	n-octadecane
	n-pentacosane
	n-pentadecane
	n-tetracosane
	n-tetradecane
	n-tetratriacontane
	n-triacontane
	n-tricosane
	n-tridecane
	n-tritriacontane
	n-undecane
	phytane
	pristane

Method Code: 001
LABORATORY: TDI Brooks International, Inc. Tissue Extraction Method (PAH and OCs)

Tissue samples are either immediately processed or stored frozen (-20°C) until processing. Tissues are processed as appropriate for the tissue type (e.g. dissection, shucking). Processed tissues are homogenized using a variety of mechanical methods (Waring blender, Hobart meat grinder or Tissumisser), depending upon the tissue amount and type. After homogenization, an approximate 1 g aliquot is removed and dried in an oven at 105°C to a constant weight to determine % moisture. The remaining samples are stored in certified pre-cleaned jars frozen (- 20°C) until analysis. Prior to extraction, tissue samples may be lypholized or a wet aliquot is chemically dried using a dessicant such as Hydromatrix or sodium sulfate. Samples are then extracted using a Dionex ASE200 Accelerated Solvent Extractor (ASE). The dried sample or the sample and dessicant material is loaded into 22 or 33 mL stainless steel ASE extraction tubes. The extraction are performed using 100% dicholormethane at 100°C and 2000 psi. The extracted organics dissolved in the solvent are collected in 60 mL glass vials. The extract is concentrated to approximately 10 mL in the collection vials and then transferred to 25 mL Kurdena-Danish (KD) concentrator tubes. The sample extract is concentrated to 3 mL in a water bath at 55-60°C. If lipid weight is required, a 100 mL aliquot is removed and weighed using a microbalance. Interfering non-contaminant organic material (primarily lipids) must be removed prior to instrument analyses.

The extract is processed through silica gel/alumina chromatography columns and High Performance Liquid Chromatography (HPLC). The remaining 2.9 mL of sample extracted are loaded on top of 300 mm x 19 mm glass liquid chromatography columns packed with 10 g of deactivated alumina and 20 g of deactivated silica gel. The columns are loaded in 100 % dichloromethane. The dichloromethane is replaced by adding 40 mL of pentane. The extract is carefully added to the top of the chromatography columns. The column is flushed at a rate of 1-2 mL per minute using 200 mL of 50:50 pentane/dichloromethane and collected into 250 mL flasks. The eluent collected in the 250 mL flask is evaporated to 2 mL using a waterbath at 55-50°C. The samples is transferred into 4 mL amber vials. Extracts subsequently processed by HPLC to further remove lipid interferences. Lipid removal is accomplished by flushing samples with dichlormethane through size exclusion Phenogel 10 m GPC 100 A columns. Approximately 40 mL is collected using a fraction collector, which is concentrated to 0.5 mL using a water bath at 55-60C. The concentrated extract is then analyzed by GC/MS for polynuclear aromatic hydrocarbons (PAHs) or GC/ECD for selected organochlorines (OCs).

Additional column chromatography is required to separate PCBs from toxaphene/pesticides when toxphene analysis is required and to separate planar PCBs. If toxaphene analyses is required, an aliquot of the extract prior to HPLC clean up is processed through a 3% deactivated silica gel column. The column is packed in dicloromethane which is then flushed with 50 mL of pentane. The sample extract is transferred to the top of the column and flushed with 100 mL of pentane. The fraction contains PCBs and DDTs. The column is then flushed with 120 mL of 50:50 pentane/dichloromethane. This fraction contains toxaphene and chlorinated pesticides. Both fractions are reduced to 1 mL using a water bath at 55-60°C. The extracts are then ready for instrument analysis.

If planar PCB analyses are required, the PCB/DDT fraction prepared by 3% silica gel column is further processed by column chromatography packed with 2 g of 1:19 (5% by weight) mixture of activated carbon/Celite. The column and flushed with 25 mL of 1:4 dichloromethane/cyclohexane mixture. The sample is added to the top of the column and flushed with 50 mL of 1:4 dichloromethane/cyclohexane mixture, followed by 30 mL of 9:1 dichloromethane/toluene. This is followed by the addition of 40 mL of toluene. The toluene fraction contains the planar PCBs and is concentrated to 1 mL in a Zymark TurboVap II concentrator at 42°C and 20 psi. The sample is ready for instrument analysis.

REFERENCES:

Lauenstein, G.G. and A.Y. Cantillo, ed. (1993). Sampling Analytical Methods of the National Status and Trends Program National

Benthic Surveillance and Mussel Watch Projects 1984-1992; Volume IV: Comprehensive Descriptions of Trace Organic Analytical Methods. NOAA Technical memorandum NOS ORCA 71, Silver Spring, MD.

U.S. Environmental Protection Agency. 2001. National Coastal Assessment Quality Assurance Project Plan 2001-2004. United States Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. EPA/620/R-01/002.

Environmental Protection Agency, "Method 3545: Pressurized Fluid Extraction (PFE)," in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods EPA SW-846 [Version 2 (December 1997), Integrated Manual through Update III] Washington DC, U.S. Environmental Protection Agency (1997)

Zuloaga, O.; Etxebarria, N.; Fernandez L. A.;Madariaga, J.M.; Optimization and comparison of MAE, ASE and Soxhlet extraction for the determination of HCH isomers in soil samples. Fresenius J Anal Chem, 2000, 367, 733-737.

Schantz, M.; Nichols, J. J.; Wise, S. A.; Evaluation of Pressurized Fluid Extraction for the Extraction of Environmental Matrix Reference Material, Anal. Chem., 1997, 69, 4210-4219.

Method Code: 009

LABORATORY: TDI Brooks International, Inc.

Determination of Aliphatic Hydrocarbons in Soil/Sediment

Sediment samples are extracted as described in method 005. Aliphatic hydrocarbons are determined by quantifying target analytes with a gas chromatography/flame ionization detection (GC/FID)

Aliphatic hydrocarbons are analyzed using a HewelettPackard, model 5890 Gas Chromatograph (GC) with a Flame Ionization Detector (FID) operated in a splitless mode. A HP-1MS capillary column (30m x 0.25 mm ID and 0.25 mm film thickness) is used to resolve peaks. The carrier gas is helium at a flow rate of 1.5 mL/min. The temperature of the injection port is 300°C and transfer line is 300C. The initial oven temperature is 60°C, the ramp rate is 12°C/min to a final oven temperature of 180°C. Normal alkanes with 10 to 34 carbons and the isoprenoids pristine and phytane are determined using this procedure. For analytes of interest, a response factor relative to the internal standard is determined at each calibration level. All 5 response factors are averaged for a mean relative response factor. Data are surrogate corrected.

Environmental Protection Agency, "Method 8100/8015. Polynuclear Aromatic Hydrocarbons/Nonhalogenated Organics using GC/FID"," in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods EPA SW-846 [Version 2 (December 1997), Integrated Manual through Update III] Washington DC, U.S. Environmental Protection Agency (1997).

Method Codes:	001 012

Lab Matrix	**Analyte**
Animal Tissue	BDE# 1

BDE# 10
BDE# 100
BDE# 11
BDE# 116
BDE# 118
BDE# 119
BDE# 12
BDE# 126
BDE# 13
BDE# 138
BDE# 15
BDE# 153
BDE# 154
BDE# 155
BDE# 166
BDE# 17
BDE# 181
BDE# 183
BDE# 190
BDE# 194
BDE# 195
BDE# 196
BDE# 197
BDE# 198/199/203/200
BDE# 2
BDE# 201
BDE# 202
BDE# 204
BDE# 205
BDE# 206
BDE# 207
BDE# 208
BDE# 209
BDE# 25

BDE# 28
BDE# 3
BDE# 30
BDE# 32
BDE# 33
BDE# 35
BDE# 37
BDE# 47
BDE# 49/71
BDE# 66
BDE# 7
BDE# 75
BDE# 77
BDE# 8
BDE# 85
BDE# 99
BDE-TOTAL

Method Code: 001

LABORATORY: TDI Brooks International, Inc.

Tissue Extraction Method (PAH and OCs)

Tissue samples are either immediately processed or stored frozen (-20°C) until processing. Tissues are processed as appropriate for the tissue type (e.g. dissection, shucking). Processed tissues are homogenized using a variety of mechanical methods (Waring blender, Hobart meat grinder or Tissumisser), depending upon the tissue amount and type. After homogenization, an approximate 1 g aliquot is removed and dried in an oven at 105°C to a constant weight to determine % moisture. The remaining samples are stored in certified pre-cleaned jars frozen (- 20°C) until analysis. Prior to extraction, tissue samples may be lypholized or a wet aliquot is chemically dried using a dessicant such as Hydromatrix or sodium sulfate. Samples are then extracted using a Dionex ASE200 Accelerated Solvent Extractor (ASE). The dried sample or the sample and dessicant material is loaded into 22 or 33 mL stainless steel ASE extraction tubes. The extraction are performed using 100% dicholormethane at 100°C and 2000 psi. The extracted organics dissolved in the solvent are collected in 60 mL glass vials. The extract is concentrated to approximately 10 mL in the collection vials and then transferred to 25 mL Kurdena-Danish (KD) concentrator tubes. The sample extract is concentrated to 3 mL in a water bath at 55-60°C. If lipid weight is required, a 100 mL aliquot is removed and weighed using a microbalance. Interfering non-contaminant organic material (primarily lipids) must be removed prior to instrument analyses.

The extract is processed through silica gel/alumina chromatography columns and High Performance Liquid Chromatography

(HPLC). The remaining 2.9 mL of sample extracted are loaded on top of 300 mm x 19 mm glass liquid chromatography columns packed with 10 g of deactivated alumina and 20 g of deactivated silica gel. The columns are loaded in 100 % dichloromethane. The dichloromethane is replaced by adding 40 mL of pentane. The extract is carefully added to the top of the chromatography columns. The column is flushed at a rate of 1-2 mL per minute using 200 mL of 50:50 pentane/dichloromethane and collected into 250 mL flasks. The eluent collected in the 250 mL flask is evaporated to 2 mL using a waterbath at 55-50°C. The samples is transferred into 4 mL amber vials. Extracts subsequently processed by HPLC to further remove lipid interferences. Lipid removal is accomplished by flushing samples with dichlormethane through size exclusion Phenogel 10 m GPC 100 A columns. Approximately 40 mL is collected using a fraction collector, which is concentrated to 0.5 mL using a water bath at 55-60C. The concentrated extract is then analyzed by GC/MS for polynuclear aromatic hydrocarbons (PAHs) or GC/ECD for selected organochlorines (OCs).

Additional column chromatography is required to separate PCBs from toxaphene/pesticides when toxphene analysis is required and to separate planar PCBs. If toxaphene analyses is required, an aliquot of the extract prior to HPLC clean up is processed through a 3% deactivated silica gel column. The column is packed in dicloromethane which is then flushed with 50 mL of pentane. The sample extract is transferred to the top of the column and flushed with 100 mL of pentane. The fraction contains PCBs and DDTs. The column is then flushed with 120 mL of 50:50 pentane/dichloromethane. This fraction contains toxaphene and chlorinated pesticides. Both fractions are reduced to 1 mL using a water bath at 55-60°C. The extracts are then ready for instrument analysis.

If planar PCB analyses are required, the PCB/DDT fraction prepared by 3% silica gel column is further processed by column chromatography packed with 2 g of 1:19 (5% by weight) mixture of activated carbon/Celite. The column and flushed with 25 mL of 1:4 dichloromethane/cyclohexane mixture. The sample is added to the top of the column and flushed with 50 mL of 1:4 dichloromethane/cyclohexane mixture, followed by 30 mL of 9:1 dichloromethane/toluene. This is followed by the addition of 40 mL of toluene. The toluene fraction contains the planar PCBs and is concentrated to 1 mL in a Zymark TurboVap II concentrator at 42°C and 20 psi. The sample is ready for instrument analysis.

REFERENCES:

Lauenstein, G.G. and A.Y. Cantillo, ed. (1993). Sampling Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects 1984-1992; Volume IV: Comprehensive Descriptions of Trace Organic Analytical Methods. NOAA Technical memorandum NOS ORCA 71, Silver Spring, MD.

U.S. Environmental Protection Agency. 2001. National Coastal Assessment Quality Assurance Project Plan 2001-2004. United States Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. EPA/620/R-01/002.

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Schantz, M.; Nichols, J. J.; Wise, S. A.; Evaluation of Pressurized Fluid Extraction for the Extraction of Environmental Matrix

Reference Material, Anal. Chem., 1997, 69, 4210-4219.

Method Code: 012

Laboratory: TDI Brooks International, Inc.

Polybrominated Diphenyl Ether (PBDE) Determination by Negative Chemical Ionization (NCI)-Selected Ion Monitoring (SIM) Gas Chromatography/Mass Spectrometry (GC/MS)

Polybrominated diphenyl ethers are analyzed in sample extracts by a Thermo Trace GC and DSQ-II MS operated in SIM using a capillary column. The GC is operated in splitless mode using a PTV injection port and the capillary column is an Agilent Technologies DB-XLB (15 m x 0.25 mm ID and 0.10 mm film thickness). The carrier gas is helium at a flow rate of 1 mL/minute and methane is used as the reactant gas with a flow rate of 2.0 mL/min. The temperature of the injection port is 40 degrees C (ramp to 300 degrees C) and transfer line is 290 degrees C. The initial oven temperature is 110 degrees C, the ramp rate is 7 degrees C/minutes to a final oven temperature of 280 degrees C and held for 20 minutes. For analyte identification, the extracted ion current profiles of the primary m/z and the confirmatory ion for each analyte must be at a maximum in the same scan or within one scan of each other and the retention time must fall with 5 seconds of the retention time of the authentic standard.

Method Codes:	001 014

Lab Matrix	Analyte
Animal Tissue	1,2,3,4,6,7,8-HpCDD
	1,2,3,4,6,7,8-HpCDF
	1,2,3,4,7,8,9-HpCDF
	1,2,3,4,7,8-HxCDD
	1,2,3,4,7,8-HxCDF
	1,2,3,6,7,8-HxCDD
	1,2,3,6,7,8-HxCDF
	1,2,3,7,8,9-HxCDD
	1,2,3,7,8,9-HxCDF
	1,2,3,7,8-PeCDD
	1,2,3,7,8-PeCDF
	2,3,4,6,7,8-HxCDF
	2,3,4,7,8-PeCDF
	2,3,7,8-TCDD
	2,3,7,8-TCDF
	Cl4-PCDD

	Cl4-PCDF
	Cl5-PCDD
	Cl5-PCDF
	Cl6-PCDD
	Cl6-PCDF
	Cl7-PCDD
	Cl7-PCDF
	OCDD
	OCDF
Water	1,2,3,4,6,7,8-HpCDD
	1,2,3,4,6,7,8-HpCDF
	1,2,3,4,7,8,9-HpCDF
	1,2,3,4,7,8-HxCDD
	1,2,3,4,7,8-HxCDF
	1,2,3,6,7,8-HxCDD
	1,2,3,6,7,8-HxCDF
	1,2,3,7,8,9-HxCDD
	1,2,3,7,8,9-HxCDF
	1,2,3,7,8-PeCDD
	1,2,3,7,8-PeCDF
	2,3,4,6,7,8-HxCDF
	2,3,4,7,8-PeCDF
	2,3,7,8-TCDD
	2,3,7,8-TCDF
	Cl4-PCDD
	Cl4-PCDF
	Cl5-PCDD
	Cl5-PCDF
	Cl6-PCDD
	Cl6-PCDF
	Cl7-PCDD
	Cl7-PCDF
	OCDD
	OCDF

Method Code: 001

LABORATORY: TDI Brooks International, Inc.

Tissue Extraction Method (PAH and OCs)

Tissue samples are either immediately processed or stored frozen (-20°C) until processing. Tissues are processed as appropriate for the tissue type (e.g. dissection, shucking). Processed tissues are homogenized using a variety of mechanical methods (Waring blender, Hobart meat grinder or Tissumisser), depending upon the tissue amount and type. After homogenization, an approximate 1 g aliquot is removed and dried in an oven at 105°C to a constant weight to determine % moisture. The remaining samples are stored in certified pre-cleaned jars frozen (- 20°C) until analysis. Prior to extraction, tissue samples may be lypholized or a wet aliquot is chemically dried using a dessicant such as Hydromatrix or sodium sulfate. Samples are then extracted using a Dionex ASE200 Accelerated Solvent Extractor (ASE). The dried sample or the sample and dessicant material is loaded into 22 or 33 mL stainless steel ASE extraction tubes. The extraction are performed using 100% dicholormethane at 100°C and 2000 psi. The extracted organics dissolved in the solvent are collected in 60 mL glass vials. The extract is concentrated to approximately 10 mL in the collection vials and then transferred to 25 mL Kurdena-Danish (KD) concentrator tubes. The sample extract is concentrated to 3 mL in a water bath at 55-60°C. If lipid weight is required, a 100 mL aliquot is removed and weighed using a microbalance. Interfering non-contaminant organic material (primarily lipids) must be removed prior to instrument analyses.

The extract is processed through silica gel/alumina chromatography columns and High Performance Liquid Chromatography (HPLC). The remaining 2.9 mL of sample extracted are loaded on top of 300 mm x 19 mm glass liquid chromatography columns packed with 10 g of deactivated alumina and 20 g of deactivated silica gel. The columns are loaded in 100 % dichloromethane. The dichloromethane is replaced by adding 40 mL of pentane. The extract is carefully added to the top of the chromatography columns. The column is flushed at a rate of 1-2 mL per minute using 200 mL of 50:50 pentane/dichloromethane and collected into 250 mL flasks. The eluent collected in the 250 mL flask is evaporated to 2 mL using a waterbath at 55-50°C. The samples is transferred into 4 mL amber vials. Extracts subsequently processed by HPLC to further remove lipid interferences. Lipid removal is accomplished by flushing samples with dichlormethane through size exclusion Phenogel 10 m GPC 100 A columns. Approximately 40 mL is collected using a fraction collector, which is concentrated to 0.5 mL using a water bath at 55-60C. The concentrated extract is then analyzed by GC/MS for polynuclear aromatic hydrocarbons (PAHs) or GC/ECD for selected organochlorines (OCs).

Additional column chromatography is required to separate PCBs from toxaphene/pesticides when toxphene analysis is required and to separate planar PCBs. If toxaphene analyses is required, an aliquot of the extract prior to HPLC clean up is processed through a 3% deactivated silica gel column. The column is packed in dicloromethane which is then flushed with 50 mL of pentane. The sample extract is transferred to the top of the column and flushed with 100 mL of pentane. The fraction contains PCBs and DDTs. The column is then flushed with 120 mL of 50:50 pentane/dichloromethane. This fraction contains toxaphene and chlorinated pesticides. Both fractions are reduced to 1 mL using a water bath at 55-60°C. The extracts are then ready for instrument analysis.

If planar PCB analyses are required, the PCB/DDT fraction prepared by 3% silica gel column is further processed by column chromatography packed with 2 g of 1:19 (5% by weight) mixture of activated carbon/Celite. The column and flushed with 25 mL of 1:4 dichloromethane/cyclohexane mixture. The sample is added to the top of the column and flushed with 50 mL of 1:4 dichloromethane/cyclohexane mixture, followed by 30 mL of 9:1 dichloromethane/toluene. This is followed by the addition of 40 mL

of toluene. The toluene fraction contains the planar PCBs and is concentrated to 1 mL in a Zymark TurboVap II concentrator at 42°C and 20 psi. The sample is ready for instrument analysis.

REFERENCES:

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Schantz, M.; Nichols, J. J.; Wise, S. A.; Evaluation of Pressurized Fluid Extraction for the Extraction of Environmental Matrix Reference Material, Anal. Chem., 1997, 69, 4210-4219.

Method Code: 014

LABORATORY: TDI Brooks International, Inc

Summary of Method 1613B

This procedure uses matrix specific extraction, analyte specific cleanup, and HRGC/HRMS analysis techniques for dioxins and furans.

If interferences are encountered, the method provides selected cleanup procedures to aid the analyst in their elimination.

A specified amount of sample is spiked with a solution containing specified amounts of each of the fifteen isotopically labeled PCDDs/PCDFs. The sample is then extracted according to a matrix specific extraction procedure. Aqueous samples that are judged to contain 1 percent or more solids, and solid samples that show an aqueous phase, are filtered, the solid phase (including the filter) and the aqueous phase extracted separately, and the extracts combined before extract cleanup.

The extraction procedures are:

 Toluene: Soxhlet extraction for soil, sediment, fly ash, and paper pulp samples;

 Methylene chloride, liquid-liquid extraction for water samples

 Toluene: Dean-Stark extraction for fuel oil, and aqueous sludge samples;

 Toluene extraction for still bottom samples;

 Hexane/methylene chloride, Soxhlet extraction or methylene chloride, Soxhlet extraction for fish tissue samples

 Methylene chloride extraction for human adipose tissue samples

As an option, all solid samples (wet or dry) may be extracted with toluene using a Soxhlet/Dean Stark extraction system. The decision for the selection of an extraction procedure for chemical reactor residue samples is based on the appearance (consistency, viscosity) of the samples. Generally, they can be handled according to the procedure used for still bottom (or chemical sludge) samples.

The extracts are submitted to an acidic washing treatment and dried. Following a solvent exchange step, the extracts are cleaned up by column chromatography on silica gel and activated carbon. The extracts from adipose tissue samples are treated with silica gel impregnated with sulfuric acid before chromatography on acidic silica gel, and activated carbon.

Fish tissue and paper pulp extracts are subjected to an acid wash treatment only, prior to chromatography on alumina and activated carbon.

The preparation of the final extract for HRGC/HRMS analysis is accomplished by adding 20µL of a nonane solution containing 100pg/µL of the internal standard compounds, 13C12 -1,2,3,4-TCDD and 13C12 -1,2,3,7,8,9-HxCDD. The former is used to determine the percent recoveries of tetra- and pentachlorinated PCDD/PCDF congeners, while the latter is used to determine the percent recoveries of the hexa-, hepta- and octachlorinated PCDD/PCDF congeners.

Two µL of the concentrated extract are injected into an HRGC/HRMS system capable of performing selected ion monitoring at resolving powers of at least 10,000 (10 percent valley definition).

The identification of sixteen 2,3,7,8-substituted congeners, for which a 13C12-labeled standard is available in the sample and the labeled standard spiking solutions, is based on their elution at their exact retention time (within 0.005 retention time units measured in the routine calibration) and the simultaneous detection of the two most abundant ions in the molecular ion region. The identification of OCDF is based on its retention time relative to
13C12 -OCDD and the simultaneous detection of the two most abundant ions in the molecular ion region. Identification is also based on a comparison of the ratios of the integrated ion abundance of the molecular ion species to their theoretical abundance ratios.

Quantitation of the individual congeners, total PCDDs and total PCDFs is achieved in conjunction with the establishment of a multipoint (five points) calibration curve for each homologue, during which each calibration solution is analyzed once.

Method Codes:	001 015

Lab Matrix	Analyte
Animal Tissue	PCB# 1
	PCB# 10
	PCB# 103
	PCB# 104
	PCB# 105
	PCB# 106
	PCB# 107
	PCB# 108/124
	PCB# 11
	PCB# 110/115
	PCB# 111
	PCB# 112
	PCB# 114
	PCB# 117
	PCB# 118
	PCB# 12/13
	PCB# 120
	PCB# 121
	PCB# 122
	PCB# 123
	PCB# 126
	PCB# 127
	PCB# 128/166
	PCB# 129/138/163
	PCB# 130
	PCB# 131
	PCB# 132
	PCB# 133
	PCB# 134
	PCB# 135/151
	PCB# 136
	PCB# 137

PCB# 139/140
PCB# 14
PCB# 141
PCB# 142
PCB# 143
PCB# 144
PCB# 145
PCB# 146
PCB# 147/149
PCB# 148
PCB# 15
PCB# 150
PCB# 152
PCB# 153/168
PCB# 154
PCB# 155
PCB# 156/157
PCB# 158
PCB# 159
PCB# 16
PCB# 160
PCB# 161
PCB# 162
PCB# 164
PCB# 165
PCB# 167
PCB# 169
PCB# 17
PCB# 170
PCB# 171/173
PCB# 172
PCB# 174
PCB# 175
PCB# 176

PCB# 177
PCB# 178
PCB# 179
PCB# 18/30
PCB# 180/193
PCB# 181
PCB# 182
PCB# 183
PCB# 184
PCB# 185
PCB# 186
PCB# 187
PCB# 188
PCB# 189
PCB# 19
PCB# 190
PCB# 191
PCB# 192
PCB# 194
PCB# 195
PCB# 196
PCB# 197
PCB# 198/199
PCB# 2
PCB# 20/28
PCB# 200
PCB# 201
PCB# 202
PCB# 203
PCB# 204
PCB# 205
PCB# 206
PCB# 207
PCB# 208

PCB# 209
PCB# 21/33
PCB# 22
PCB# 23
PCB# 24
PCB# 25
PCB# 26/29
PCB# 27
PCB# 3
PCB# 31
PCB# 32
PCB# 34
PCB# 35
PCB# 36
PCB# 37
PCB# 38
PCB# 39
PCB# 4
PCB# 40/41/70
PCB# 42
PCB# 43/73
PCB# 44/47/65
PCB# 45/51
PCB# 46
PCB# 48
PCB# 49/69
PCB# 5
PCB# 50/53
PCB# 52
PCB# 54
PCB# 55
PCB# 56
PCB# 57
PCB# 58

PCB# 59/62/75
PCB# 6
PCB# 60
PCB# 63
PCB# 64
PCB# 66
PCB# 67
PCB# 68
PCB# 7
PCB# 70/61/74/76
PCB# 72
PCB# 77
PCB# 78
PCB# 79
PCB# 8
PCB# 80
PCB# 81
PCB# 82
PCB# 83/99
PCB# 84
PCB# 85/116
PCB# 86/87/97/109/119/125
PCB# 88/91
PCB# 89
PCB# 9
PCB# 90/101/113
PCB# 92
PCB# 94
PCB# 95
PCB# 96
PCB# 98/100
PCB# 98/102
PCB-1242
PCB-1248

	PCB-1254
	PCB-1260
	PCB-TOTAL
Water	PCB# 1
	PCB# 10
	PCB# 103
	PCB# 104
	PCB# 105
	PCB# 106
	PCB# 107
	PCB# 108/124
	PCB# 11
	PCB# 110/115
	PCB# 111
	PCB# 112
	PCB# 114
	PCB# 117
	PCB# 118
	PCB# 12/13
	PCB# 120
	PCB# 121
	PCB# 122
	PCB# 123
	PCB# 126
	PCB# 127
	PCB# 128/166
	PCB# 129/138/163
	PCB# 130
	PCB# 131
	PCB# 132
	PCB# 133
	PCB# 134
	PCB# 135/151
	PCB# 136

PCB# 137
PCB# 139/140
PCB# 14
PCB# 141
PCB# 142
PCB# 143
PCB# 144
PCB# 145
PCB# 146
PCB# 147/149
PCB# 148
PCB# 15
PCB# 150
PCB# 152
PCB# 153/168
PCB# 154
PCB# 155
PCB# 156/157
PCB# 158
PCB# 159
PCB# 16
PCB# 160
PCB# 161
PCB# 162
PCB# 164
PCB# 165
PCB# 167
PCB# 169
PCB# 17
PCB# 170
PCB# 171/173
PCB# 172
PCB# 174
PCB# 175

PCB# 176
PCB# 177
PCB# 178
PCB# 179
PCB# 18/30
PCB# 180/193
PCB# 181
PCB# 182
PCB# 183
PCB# 184
PCB# 185
PCB# 186
PCB# 187
PCB# 188
PCB# 189
PCB# 19
PCB# 190
PCB# 191
PCB# 192
PCB# 194
PCB# 195
PCB# 196
PCB# 197
PCB# 198/199
PCB# 2
PCB# 20/28
PCB# 200
PCB# 201
PCB# 202
PCB# 203
PCB# 204
PCB# 205
PCB# 206
PCB# 207

PCB# 208
PCB# 209
PCB# 21/33
PCB# 22
PCB# 23
PCB# 24
PCB# 25
PCB# 26/29
PCB# 27
PCB# 3
PCB# 31
PCB# 32
PCB# 34
PCB# 35
PCB# 36
PCB# 37
PCB# 38
PCB# 39
PCB# 4
PCB# 40/41/70
PCB# 42
PCB# 43/73
PCB# 44/47/65
PCB# 45/51
PCB# 46
PCB# 48
PCB# 49/69
PCB# 5
PCB# 50/53
PCB# 52
PCB# 54
PCB# 55
PCB# 56
PCB# 57

PCB# 58
PCB# 59/62/75
PCB# 6
PCB# 60
PCB# 63
PCB# 64
PCB# 66
PCB# 67
PCB# 68
PCB# 7
PCB# 70/61/74/76
PCB# 72
PCB# 77
PCB# 78
PCB# 79
PCB# 8
PCB# 80
PCB# 81
PCB# 82
PCB# 83/99
PCB# 84
PCB# 85/116
PCB# 86/87/97/109/119/125
PCB# 88/91
PCB# 89
PCB# 9
PCB# 90/101/113
PCB# 92
PCB# 94
PCB# 95
PCB# 96
PCB# 98/100
PCB# 98/102
PCB-TOTAL

Method Code: 001

LABORATORY: TDI Brooks International, Inc.

Tissue Extraction Method (PAH and OCs)

Tissue samples are either immediately processed or stored frozen (-20°C) until processing. Tissues are processed as appropriate for the tissue type (e.g. dissection, shucking). Processed tissues are homogenized using a variety of mechanical methods (Waring blender, Hobart meat grinder or Tissumisser), depending upon the tissue amount and type. After homogenization, an approximate 1 g aliquot is removed and dried in an oven at 105°C to a constant weight to determine % moisture. The remaining samples are stored in certified pre-cleaned jars frozen (- 20°C) until analysis. Prior to extraction, tissue samples may be lypholized or a wet aliquot is chemically dried using a dessicant such as Hydromatrix or sodium sulfate. Samples are then extracted using a Dionex ASE200 Accelerated Solvent Extractor (ASE). The dried sample or the sample and dessicant material is loaded into 22 or 33 mL stainless steel ASE extraction tubes. The extraction are performed using 100% dicholormethane at 100°C and 2000 psi. The extracted organics dissolved in the solvent are collected in 60 mL glass vials. The extract is concentrated to approximately 10 mL in the collection vials and then transferred to 25 mL Kurdena-Danish (KD) concentrator tubes. The sample extract is concentrated to 3 mL in a water bath at 55-60°C. If lipid weight is required, a 100 mL aliquot is removed and weighed using a microbalance. Interfering non-contaminant organic material (primarily lipids) must be removed prior to instrument analyses.

The extract is processed through silica gel/alumina chromatography columns and High Performance Liquid Chromatography (HPLC). The remaining 2.9 mL of sample extracted are loaded on top of 300 mm x 19 mm glass liquid chromatography columns packed with 10 g of deactivated alumina and 20 g of deactivated silica gel. The columns are loaded in 100 % dichloromethane. The dichloromethane is replaced by adding 40 mL of pentane. The extract is carefully added to the top of the chromatography columns. The column is flushed at a rate of 1-2 mL per minute using 200 mL of 50:50 pentane/dichloromethane and collected into 250 mL flasks. The eluent collected in the 250 mL flask is evaporated to 2 mL using a waterbath at 55-50°C. The samples is transferred into 4 mL amber vials. Extracts subsequently processed by HPLC to further remove lipid interferences. Lipid removal is accomplished by flushing samples with dichlormethane through size exclusion Phenogel 10 m GPC 100 A columns. Approximately 40 mL is collected using a fraction collector, which is concentrated to 0.5 mL using a water bath at 55-60C. The concentrated extract is then analyzed by GC/MS for polynuclear aromatic hydrocarbons (PAHs) or GC/ECD for selected organochlorines (OCs).

Additional column chromatography is required to separate PCBs from toxaphene/pesticides when toxphene analysis is required and to separate planar PCBs. If toxaphene analyses is required, an aliquot of the extract prior to HPLC clean up is processed through a 3% deactivated silica gel column. The column is packed in dicloromethane which is then flushed with 50 mL of pentane. The sample extract is transferred to the top of the column and flushed with 100 mL of pentane. The fraction contains PCBs and DDTs. The column is then flushed with 120 mL of 50:50 pentane/dichloromethane. This fraction contains toxaphene and chlorinated pesticides. Both fractions are reduced to 1 mL using a water bath at 55-60°C. The extracts are then ready for instrument analysis.

If planar PCB analyses are required, the PCB/DDT fraction prepared by 3% silica gel column is further processed by column chromatography packed with 2 g of 1:19 (5% by weight) mixture of activated carbon/Celite. The column and flushed with 25 mL of 1:4 dichloromethane/cyclohexane mixture. The sample is added to the top of the column and flushed with 50 mL of 1:4 dichloromethane/cyclohexane mixture, followed by 30 mL of 9:1 dichloromethane/toluene. This is followed by the addition of 40 mL

of toluene. The toluene fraction contains the planar PCBs and is concentrated to 1 mL in a Zymark TurboVap II concentrator at 42°C and 20 psi. The sample is ready for instrument analysis.

REFERENCES:

Lauenstein, G.G. and A.Y. Cantillo, ed. (1993). Sampling Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects 1984-1992; Volume IV: Comprehensive Descriptions of Trace Organic Analytical Methods. NOAA Technical memorandum NOS ORCA 71, Silver Spring, MD.

U.S. Environmental Protection Agency. 2001. National Coastal Assessment Quality Assurance Project Plan 2001-2004. United States Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. EPA/620/R-01/002.

Environmental Protection Agency, "Method 3545: Pressurized Fluid Extraction (PFE)," in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods EPA SW-846 [Version 2 (December 1997), Integrated Manual through Update III] Washington DC, U.S. Environmental Protection Agency (1997)

Zuloaga, O.; Etxebarria, N.; Fernandez L. A.;Madariaga, J.M.; Optimization and comparison of MAE, ASE and Soxhlet extraction for the determination of HCH isomers in soil samples. Fresenius J Anal Chem, 2000, 367, 733-737.

Schantz, M.; Nichols, J. J.; Wise, S. A.; Evaluation of Pressurized Fluid Extraction for the Extraction of Environmental Matrix Reference Material, Anal. Chem., 1997, 69, 4210-4219.

Method Code: 015

LABORATORY: TDI Brooks International, Inc

Summary of Method 1668A

This procedure uses matrix specific extraction, analyte specific cleanup, and HRGC/HRMS analysis techniques for PCB congeners.

Aqueous samples (samples containing less than one percent solids) ¨C Stable isotopically labeled analogs of the toxics and labeled earliest and latest level of chlorination (LOC) PCBs are spiked into the sample aliquot. The sample is extracted using a separatory funnel extraction and concentrated for clean up.

Solid, semi-solid, and multi-phase samples (excluding tissue) ¨C The labeled compounds are spiked into sample material that corresponds to approximately 5g on a dry weight basis. For samples with high moisture content, the amount of wet weight material to add the labeled compounds to would necessarily be greater than 5g. All samples are homogenized properly and extracted in a Soxhlet extraction apparatus or Accelerated Solvent Extractor (ASE). The extract is concentrated for clean up.

Fish and other tissue ¨C An aliquot of tissue sufficient enough to provide sample for PCB and lipid analysis is homogenized and spiked with labeled compounds. The sample is mixed with anhydrous sodium sulfate, allowed to dry for 12-24 hours, and extracted for 16-24 hours using a 1:1 dichloromethane/hexane solution in a Soxhlet extraction apparatus. The extract is split; with one aliquot concentrated for clean up and the other concentrated for lipid determination.

After extraction, a labeled clean up standard is spiked into the extract which is then cleaned up using back-extraction with sulfuric acid and/or base, and silica gel or Florisil chromatography.

After clean up, the extract is concentrated to 20¦ÌL. Immediately prior to injection, labeled injection internal standards are added to each extract and an aliquot of the extract is injected into the gas chromatograph (GC). The analytes are separated by the GC and detected by a high resolution (¡Ý10,000) mass spectrometer. Two exact m/z¡¯s are monitored at each level of chlorination throughout a pre-determined retention time window.

An individual PCB congener is identified by comparing the GC retention time and ion-abundance ratio of two exact m/z¡¯s with the corresponding retention time of an authentic standard and the theoretical or acquired ion-abundance ratio of the two exact m/z¡¯s. Isomer specificity for certain of the CB congeners is achieved using GC columns that resolve these congeners.

Quantitative analysis is performed in one of two ways using selected ion current profile (SICP) areas:

For the toxics and the earliest and latest level of chlorination CBs (Toxics/LOC), the GC/MS is multi-point calibrated and the concentration is determined using the isotope dilution technique.

For all other congeners, the GC/MS is calibrated at a single concentration and the concentrations are determined using the internal standard technique.

For the labeled congeners, the GC/MS is calibrated using replicates at a single concentration and the concentrations of these labeled compounds are determined using the internal standard technique.

The quality of analysis is assured through reproducible calibration and testing of the extraction, clean up and GC/MS systems.

Method Codes:	011 015

Lab Matrix	Analyte
Water	PCB# 1
	PCB# 10
	PCB# 103
	PCB# 104
	PCB# 105
	PCB# 106
	PCB# 107
	PCB# 108/124
	PCB# 11
	PCB# 110/115

PCB# 111
PCB# 112
PCB# 114
PCB# 117
PCB# 118
PCB# 12/13
PCB# 120
PCB# 121
PCB# 122
PCB# 123
PCB# 126
PCB# 127
PCB# 128/166
PCB# 129/138/163
PCB# 130
PCB# 131
PCB# 132
PCB# 133
PCB# 134
PCB# 135/151
PCB# 136
PCB# 137
PCB# 139/140
PCB# 14
PCB# 141
PCB# 142
PCB# 143
PCB# 144
PCB# 145
PCB# 146
PCB# 147/149
PCB# 148
PCB# 15
PCB# 150

PCB# 152
PCB# 153/168
PCB# 154
PCB# 155
PCB# 156/157
PCB# 158
PCB# 159
PCB# 16
PCB# 160
PCB# 161
PCB# 162
PCB# 164
PCB# 165
PCB# 167
PCB# 169
PCB# 17
PCB# 170
PCB# 171/173
PCB# 172
PCB# 174
PCB# 175
PCB# 176
PCB# 177
PCB# 178
PCB# 179
PCB# 18/30
PCB# 180/193
PCB# 181
PCB# 182
PCB# 183
PCB# 184
PCB# 185
PCB# 186
PCB# 187

PCB# 188
PCB# 189
PCB# 19
PCB# 190
PCB# 191
PCB# 192
PCB# 194
PCB# 195
PCB# 196
PCB# 197
PCB# 198/199
PCB# 2
PCB# 20/28
PCB# 200
PCB# 201
PCB# 202
PCB# 203
PCB# 204
PCB# 205
PCB# 206
PCB# 207
PCB# 208
PCB# 209
PCB# 21/33
PCB# 22
PCB# 23
PCB# 24
PCB# 25
PCB# 26/29
PCB# 27
PCB# 3
PCB# 31
PCB# 32
PCB# 34

PCB# 35
PCB# 36
PCB# 37
PCB# 38
PCB# 39
PCB# 4
PCB# 40/41/70
PCB# 42
PCB# 43/73
PCB# 44/47/65
PCB# 45/51
PCB# 46
PCB# 48
PCB# 49/69
PCB# 5
PCB# 50/53
PCB# 52
PCB# 54
PCB# 55
PCB# 56
PCB# 57
PCB# 58
PCB# 59/62/75
PCB# 6
PCB# 60
PCB# 63
PCB# 64
PCB# 66
PCB# 67
PCB# 68
PCB# 7
PCB# 70/61/74/76
PCB# 72
PCB# 77

PCB# 78
PCB# 79
PCB# 8
PCB# 80
PCB# 81
PCB# 82
PCB# 83/99
PCB# 84
PCB# 85/116
PCB# 86/87/97/109/119/125
PCB# 88/91
PCB# 89
PCB# 9
PCB# 90/101/113
PCB# 92
PCB# 94
PCB# 95
PCB# 96
PCB# 98/100
PCB# 98/102
PCB-1242
PCB-1248
PCB-1254
PCB-1260
PCB-TOTAL

Method Code: 011

LABORATORY: TDI-Brooks International, Inc.

Water Extraction Method (PAH and OC)

Water samples are either immediately processed or stored refrigerated (4 degrees C) until processing. The pH of samples is adjusted to <2 by the addition of 1 mL of hydrochloric acid. Samples are serially extracted using separatory funnels and dichloromethane. For a 1 L sample, 100 mL of dichloromethane is added. The sample is then shaken for three minutes. The organic layer is allowed to separate from the aqueous phase. The organic layer is drained into a 500 mL round bottom flask

through a glass funnel containing a glass fiber filter and combusted sodium sulfate. This process is repeated twice more. The extract is concentrated to approximately 10 mL in the 500 mL round bottom flasks in a water bath at 55-60 degrees C and then transferred to 25 mL Kurdena-Danish (KD) concentrator tubes. The sample extract is concentrated to 3 mL in a water bath at 55-60 degrees C. If extractable organic material weight is required, a 100 micro litter aliquot is removed and weighed using a microbalance. Interfering non-contaminant organic materials may be removed prior to instrument analyses.

If the extract is colored then sample clean up may be required. The extract is processed through silica gel/alumina chromatography columns. The sample extract is loaded on top of 300 mm x 19 mm glass liquid chromatography columns packed with 10 g of deactivated alumina and 20 g of deactivated silica gel. The columns are loaded in 100 % dichloromethane. The dichloromethane is replaced by adding 40 mL of pentane. The extract is carefully added to the top of the chromatography columns. The column is flushed at a rate of 1-2 mL per minute using 200 mL of 50:50 pentane/dichloromethane and collected into 250 mL flasks. The eluent collected in the 250 mL flask is evaporated to 2 mL using a waterbath at 55-50 degrees C. The samples is transferred into 2 mL amber vials. The concentrated extract is then analyzed by GC/MS for polynuclear aromatic hydrocarbons (PAHs) or GC/ECD for selected organochlorines (OCs).

Additional column chromatography may be required to separate PCBs from toxaphene/pesticides when toxphene analysis is required and to separate planar PCBs. If toxaphene analyses is required, an aliquot of the extract after silica/alumina clean-up is processed through a 3% deactivated silica gel column. The column is packed in diclorometh ane which is then flushed with 50 mL of pentane. The sample extract is transferred to the top of the column and flushed with 100 mL of pentane. The fraction contains PCBs and DDTs. The column is then flushed with 120 mL of 50:50 pentane/dichloromethane. This fraction contains toxaphene and chlorinated pesticides. Both fractions are reduced to 1 mL using a water bath at 55-60 degrees C. The extracts are then ready for instrument analysis.

If planar PCB analyses are required, the PCB/DDT fraction prepared by 3% silica gel column is further processed by column chromatography packed with 2 g of 1:19 (5% by weight) mixture of activated carbon/Celite. The column and flushed with 25 mL of 1:4 dichloromethane/cyclohexane mixture. The sample is added to the top of the column and flushed with 50 mL of 1:4 dichloromethane/cyclohexane mixture, followed by 30 mL of 9:1 dichloromethane/toluene. This is followed by the addition of 40 mL of toluene. The toluene fraction contains the planar PCBs and is concentrated to 1 mL in a Zymark TurboVap II concentrator at 42 degrees C and 20 psi. The sample is ready for instrument analysis.

References:

Lauenstein, G.G. and A.Y. Cantillo, ed. (1993). Sampling Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects 1984-1992; Volume IV: Comprehensive Descriptions of Trace Organic Analytical Methods. NOAA Technical memorandum NOS ORCA 71, Silver Spring, MD.

U.S. Environmental Protection Agency. 2001. National Coastal Assessment Quality Assurance Project Plan 2001-2004. United States Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. EPA/620/R-01/002.

Method Code: 015

LABORATORY: TDI Brooks International, Inc

Summary of Method 1668A

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Solid, semi-solid, and multi-phase samples (excluding tissue) ¨C The labeled compounds are spiked into sample material that corresponds to approximately 5g on a dry weight basis. For samples with high moisture content, the amount of wet weight material to add the labeled compounds to would necessarily be greater than 5g. All samples are homogenized properly and extracted in a Soxhlet extraction apparatus or Accelerated Solvent Extractor (ASE). The extract is concentrated for clean up.

Fish and other tissue ¨C An aliquot of tissue sufficient enough to provide sample for PCB and lipid analysis is homogenized and spiked with labeled compounds. The sample is mixed with anhydrous sodium sulfate, allowed to dry for 12-24 hours, and extracted for 16-24 hours using a 1:1 dichloromethane/hexane solution in a Soxhlet extraction apparatus. The extract is split; with one aliquot concentrated for clean up and the other concentrated for lipid determination.

After extraction, a labeled clean up standard is spiked into the extract which is then cleaned up using back-extraction with sulfuric acid and/or base, and silica gel or Florisil chromatography.

After clean up, the extract is concentrated to 20¦ÌL. Immediately prior to injection, labeled injection internal standards are added to each extract and an aliquot of the extract is injected into the gas chromatograph (GC). The analytes are separated by the GC and detected by a high resolution (¡Ý10,000) mass spectrometer. Two exact m/z¡¯s are monitored at each level of chlorination throughout a pre-determined retention time window.

An individual PCB congener is identified by comparing the GC retention time and ion-abundance ratio of two exact m/z¡¯s with the corresponding retention time of an authentic standard and the theoretical or acquired ion-abundance ratio of the two exact m/z¡¯s. Isomer specificity for certain of the CB congeners is achieved using GC columns that resolve these congeners.

Quantitative analysis is performed in one of two ways using selected ion current profile (SICP) areas:

For the toxics and the earliest and latest level of chlorination CBs (Toxics/LOC), the GC/MS is multi-point calibrated and the concentration is determined using the isotope dilution technique.

For all other congeners, the GC/MS is calibrated at a single concentration and the concentrations are determined using the internal standard technique.

For the labeled congeners, the GC/MS is calibrated using replicates at a single concentration and the concentrations of these labeled compounds are determined using the internal standard technique.

The quality of analysis is assured through reproducible calibration and testing of the extraction, clean up and GC/MS systems.

Appendix 3C. Complete Catalog 2020128 of Rio Grande silvery minnow carcasses and collection information.

ECDMS Complete Catalog - 2020128

08/26/09

Catalog Submitter

Catalog Title	Rio Grande Silvery Minnow Health Study		
Catalog Submitter	Lusk, Joel		
Submitter Title	Senior Environmental Contaminant Specialist		
Location	New Mexico Ecological Services Field Office, NM		
Submitters Email	joel_lusk@fws.gov		
Phone Number	(505) 761-4709 ext. 109	**Fax Number**	505-346-2542

Catalog Information

Number of Samples	45	**Date Submitted**	08/10/09
Disposition of Samples	Return	**Catalog Validation**	Validated
Chain of Custody	No	**Fields Missing**	0
Submitter has Split Samples	No	**Non-Routine Request**	No
Request Permanent Lock	No	**Rapid Turnaround**	No
Catalog Data Lock	Catalog and sample data are unlocked.		
Results Data Lock	There are no results for this catalog.		

Project Information

DEQ Project ID	N/A	**Regional Study ID**	N/A

FWS Refuge Names

The results of this catalog are directly applicable to the following FWS refuges:
Bosque Del Apache National Wildlife Refuge , New Mexico
Sevilleta National Wildlife Refuge , New Mexico

Catalog Description
Catalog Instructions
The priority where samples have multiple chemical analyses requested is 209 PCB by HRGC/HRMS, lipids, organochlorine pesticides, heavy metals (and As, Hg, Se), PBDEs, dioxins, aromatics and then other analytes. Note that the fish was dissected and stored in a freezer for up to 2 years, and therefore, moisture content has likely largely been lost and is NOT a priority for analysis although this "analyte" has been requested.

Cost Code Information

Priority	Cost Code	Dollars Available

1	09-22420-1946-2013	$40,600
	Total	$40,600

Regional Approval

Region	Current Regional Coordinator	Approval Date	Phone Number	E-Mail Address
2	Laila Lienesch	08/14/09	505-248-6494 ext.	laila_lienesch@fws.gov

Catalog Status Information

Purchase Order Number	Lab Name	Analysis Type	PO Generated	Lab Approval	Current *PCD	QA/QC Approval	Results Location

Catalog Cost

Purchase Order Number	Lab Name	Analysis Type	Cost Code	Cost

Sample Number - 7-06-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	79.6 grams	**Collection Date**	07/27/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 - MRG near Bernalillo, NM above and below 550 Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.32121025	35 N 19 ' 16 "	3909779 N
Longitude	-106.55842789	-106 E 33 ' 30 "	358343 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	83.6 grams	**Collection Date**	07/26/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site2 - MRG at Alameda NM, below AMAFCA NDC		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.20897414	35 N 12 ' 32 "	3897417 N
Longitude	-106.61797315	-106 E 37 ' 4 "	352727 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis

Metals Scan

Sample Number - 7-06-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	32.9 grams	**Collection Date**	07/25/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	SIte3-MRG at Los Padillas, NM above I-25 Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.97261343	34 N 58 ' 21 "	3871311 N
Longitude	-106.69041188	-106 E 41 ' 25 "	345688 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all fish from the site were removed from foil and composited into a jar for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	59.0 grams	**Collection Date**	07/20/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 - MRG at Los Lunas - above Main Street Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81456722	34 N 48 ' 52 "	3853814 N
Longitude	-106.71109672	-106 E 42 ' 39 "	343500 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	64.5 grams	**Collection Date**	07/19/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG near La Joya, NM. above Sevilleta NWR portion of Rio		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**

Latitude	34.31230631	34 N 18 ' 44 "	3798341 N
Longitude	-106.854025	-106 E 51 ' 14 "	329403 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	40.3 grams	**Collection Date**	07/18/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 - MRG near San Antonio, NM north of Bosque del Apache NWR border		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	33.87452474	33 N 52 ' 28 "	3749783 N
Longitude	-106.84959324	-106 E 50 ' 58 "	328932 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-08-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	63.0 grams	**Collection Date**	07/16/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 - MRG at Bernalillo, NM (above and below 550 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.32125645	35 N 19 ' 16 "	3909784 N
Longitude	-106.55834077	-106 E 33 ' 30 "	358351 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*

N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 7-08-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	53.6 grams	**Collection Date**	07/15/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda, NM above Alameda Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.20892995	35 N 12 ' 32 "	3897412 N
Longitude	-106.61790636	-106 E 37 ' 4 "	352733 E

Coordinate Method	UTM Coordinates

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 4-08-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	189.9 grams	**Collection Date**	04/13/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 - MRG at Los Padillas (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.01396395	35 N 0 ' 50 "	3875872 N
Longitude	-106.67395835	-106 E 40 ' 26 "	347267 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-08-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	28.3 grams	**Collection Date**	07/10/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4- MRG near Los Lunas (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81916416	34 N 49 ' 8 "	3854327 N
Longitude	-106.713116	-106 E 42 ' 47 "	343324 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 1-08-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	76.3 grams	**Collection Date**	01/23/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG near La Joya, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31200231	34 N 18 ' 43 "	3798307 N
Longitude	-106.85385532	-106 E 51 ' 13 "	329418 E

Coordinate Method	UTM Coordinates

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 10-07-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	25.7 grams	**Collection Date**	10/31/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 - MRG at Bernalillo, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.3125136	35 N 18 ' 45 "	3908815 N
Longitude	-106.55884398	-106 E 33 ' 31 "	358290 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	26.7 grams	**Collection Date**	10/30/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 MRG at Alameda, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.20886524	35 N 12 ' 31 "	3897405 N
Longitude	-106.61802592	-106 E 37 ' 4 "	352722 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	43.3 grams	**Collection Date**	10/29/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas, NM (above I-25 Bridge)		

FWS Refuge	N/A

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.9735791	34 N 58 ' 24 "	3871418 N
Longitude	-106.6903441	-106 E 41 ' 25 "	345696 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	39.8 grams	**Collection Date**	10/25/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas, NM above main st bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.81863921	34 N 49 ' 7 "	3854269 N
Longitude	-106.7132582	-106 E 42 ' 47 "	343310 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	46.9 grams	**Collection Date**	10/24/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 MRG near La Joya, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31200231	34 N 18 ' 43 "	3798307 N
Longitude	-106.85385532	-106 E 51 ' 13 "	329418 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	29.0 grams	**Collection Date**	10/23/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio NM (above BdANWR border)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87600472	33 N 52 ' 33 "	3749947 N
Longitude	-106.84951707	-106 E 50 ' 58 "	328942 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 1-08-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	31.9 grams	**Collection Date**	01/30/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 MRG at Bernalillo, NM (above and below 550 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.31245022	35 N 18 ' 44 "	3908808 N
Longitude	-106.55886476	-106 E 33 ' 31 "	358288 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	52.6 grams	**Collection Date**	01/28/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda, NM above Alameda Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's

Latitude	35.20892167	35 N 12 ' 32 "	3897411 N
Longitude	-106.61785127	-106 E 37 ' 4 "	352738 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	50.3 grams	**Collection Date**	01/28/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.20786166	35 N 12 ' 28 "	3897411 N
Longitude	-106.69530751	-106 E 41 ' 43 "	345685 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in

foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	47.1 grams	**Collection Date**	01/24/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.81820555	34 N 49 ' 5 "	3854220 N
Longitude	-106.71268071	-106 E 42 ' 45 "	343362 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	55.9 grams	**Collection Date**	01/22/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio, NM (just above BdANWR north border)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87474141	33 N 52 ' 29 "	3749807 N
Longitude	-106.84957629	-106 E 50 ' 58 "	328934 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis

Metals Scan

Sample Number - 4-08-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	33.5 grams	**Collection Date**	04/14/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 MRG at Bernalillo, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.32108775	35 N 19 ' 15 "	3909765 N
Longitude	-106.55813952	-106 E 33 ' 29 "	358369 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 10-06-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	77.8 grams	**Collection Date**	10/12/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda, NM (above Alameda Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.21089567	35 N 12 ' 39 "	3897432 N
Longitude	-106.61757152	-106 E 37 ' 3 "	352764 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-06-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	79.0 grams	**Collection Date**	10/07/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas (above I-25 Bridge)		

FWS Refuge	N/A

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.95743122	34 N 57 ' 26 "	3869618 N
Longitude	-106.68450383	-106 E 41 ' 4 "	346199 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
Necropsy fish composite - Individual health observations available. Gonads were removed. Some fluids were likely lost also.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize all minnow in sample before analyses. Note that priority for analysis is 209 PCB congeners, then OC + PCB aroclors, then dioxin/furan scan.

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)

PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-06-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	122.0 grams	**Collection Date**	10/16/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas, NM (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.81717205	34 N 49 ' 1 "	3854105 N
Longitude	-106.71244066	-106 E 42 ' 44 "	343382 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil

and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-06-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	110.2 grams	**Collection Date**	10/05/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG near La Joya, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31230631	34 N 18 ' 44 "	3798341 N
Longitude	-106.854025	-106 E 51 ' 14 "	329403 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 4-08-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A

Sample Weight	47.2 grams	**Collection Date**	04/15/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.2107287	35 N 12 ' 38 "	3897615 N
Longitude	-106.62025999	-106 E 37 ' 12 "	352522 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for

results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 4-08-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	134.7 grams	**Collection Date**	04/08/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 - MRG at Los Lunas, NM (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81907187	34 N 49 ' 8 "	3854317 N
Longitude	-106.71326716	-106 E 42 ' 47 "	343310 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 4-08-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	32.4 grams	**Collection Date**	04/09/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio, NM (above BdANWR border)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87436858	33 N 52 ' 27 "	3749766 N
Longitude	-106.84978446	-106 E 50 ' 59 "	328914 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PBDE - Polybrominated Diphenly Ethers
PCB Quantification of Individual Aroclors
Inorganic Analysis
Metals Scan

Sample Number - 7-08-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	16.1 grams	**Collection Date**	07/14/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3- MRG at Los Padillas, NM above I-25 Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.96696085	34 N 58 ' 1 "	3870683 N
Longitude	-106.68972619	-106 E 41 ' 23 "	345740 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 7-08-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	10.5 grams	**Collection Date**	07/09/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG at La Joya, NM above Sevilleta NWR		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.29909525	34 N 17 ' 56 "	3796864 N
Longitude	-106.84696582	-106 E 50 ' 49 "	330026 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities

(These observations were not necessarily determined by a pathologist)
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 7-08-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	16.6 grams	**Collection Date**	07/08/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 - MRG near San Antonio, NM above Bosque del Apache NWR		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.88534008	33 N 53 ' 7 "	3750975 N

Longitude	-106.8451451	-106 E 50 ' 42 "	329365 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

N/A

Inorganic Analysis

Metals Scan

Methyl Mercury

Sample Number - 10-06-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	38.5 grams	**Collection Date**	10/11/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 1 MRG at Bernalillo, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.21213359	35 N 12 ' 43 "	3897763 N
Longitude	-106.61498184	-106 E 36 ' 53 "	353005 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in

foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 4-07-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	49.2 grams	**Collection Date**	04/26/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 MRG near Bernalillo, NM (above and below 550 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.31455303	35 N 18 ' 52 "	3909042 N
Longitude	-106.5594001	-106 E 33 ' 33 "	358243 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		

Family	Cyprinidae
Genus / Kingdom	Hybognathus / Animalia
Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 4-07-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	46.7 grams	**Collection Date**	04/25/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 MRG near Alameda, NM (in side channel above Alameda Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.21174211	35 N 12 ' 42 "	3897723 N
Longitude	-106.61729205	-106 E 37 ' 2 "	352794 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

N/A

Inorganic Analysis

Metals Scan

Sample Number - 4-07-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	32.9 grams	**Collection Date**	04/24/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas, NM (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.97036675	34 N 58 ' 13 "	3871061 N
Longitude	-106.68988377	-106 E 41 ' 23 "	345732 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 4-07-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	53.1 grams	**Collection Date**	04/19/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas, NM (above Main Street Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81798048	34 N 49 ' 4 "	3854193 N
Longitude	-106.71137504	-106 E 42 ' 40 "	343481 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 4-07-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	29.9 grams	**Collection Date**	04/18/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 MRG near La Joya, NM (above Sevilleta NWR)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31455461	34 N 18 ' 52 "	3798592 N
Longitude	-106.85500898	-106 E 51 ' 18 "	329317 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 1-07-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	36.5 grams	**Collection Date**	01/24/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 MRG near Alameda, NM (above Alameda Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.20905205	35 N 12 ' 32 "	3897433 N
Longitude	-106.62292904	-106 E 37 ' 22 "	352276 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in

foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 1-07-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	95.3 grams	**Collection Date**	01/23/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG near Los Padillas, NM (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.21174211	35 N 12 ' 42 "	3897723 N
Longitude	-106.61729205	-106 E 37 ' 2 "	352794 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 2-07-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	117.5 grams	**Collection Date**	02/01/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG near Los Lunas, NM (above Main Street Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81427857	34 N 48 ' 51 "	3853783 N
Longitude	-106.7117467	-106 E 42 ' 42 "	343440 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

N/A

Inorganic Analysis

Metals Scan

Methyl Mercury

Sample Number - 1-07-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	42.7 grams	**Collection Date**	01/31/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 MRG near La Joya, NM (above Sevilleta NWR)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.30541029	34 N 18 ' 19 "	3797569 N
Longitude	-106.84973359	-106 E 50 ' 59 "	329784 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 1-07-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	118.0 grams	**Collection Date**	01/30/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio, NM (above Bosque del Apache NWR)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87900195	33 N 52 ' 44 "	3750278 N
Longitude	-106.84868442	-106 E 50 ' 55 "	329025 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		

Genus / Kingdom	Hybognathus / Animalia
Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 06385810

Sample Matrix	Water	**NWHC Case Number**	N/A
Sample Weight	N/A grams	**Collection Date**	06/25/09
Sample Volume	1000.0 ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Survey
Location	San Jose Drain		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.04416667	35 N 2 ' 39 "	3879184 N
Longitude	-106.64944444	-106 E 38 ' 58 "	349559 E
Coordinate Method		Latitude/Longitude Degrees	
Latitude/Longitude Method		GPS Unit - NAD 83 Reference System	

Specimen Information

Sex	N/A	**Age**	N/A
Egg Condition	N/A		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
Water sample collected with teflon nozzle intregated sampler using rod. Added to teflon churn, homogenized then split, unfiltered into container. Sample contains suspended sediment. Kept chilled and shipped chilled for chemical analysis.

Field Preparation Comments
Water sample collected with teflon nozzle intregated sampler using rod. Added to teflon churn, homogenized then split, unfiltered into 1 liter HDPE container. Sample contains suspended sediment. Kept chilled and shipped chilled for chemical analysis.
Analysis Requested Comments
Water sample contains suspended sediment, please homogenize before analysis.

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
Metals Scan

ECDMS Complete Catalog - 2020128

08/26/09

Catalog Submitter

Catalog Title	Rio Grande Silvery Minnow Health Study		
Catalog Submitter	Lusk, Joel		
Submitter Title	Senior Environmental Contaminant Specialist		
Location	New Mexico Ecological Services Field Office, NM		
Submitters Email	joel_lusk@fws.gov		
Phone Number	(505) 761-4709 ext. 109	**Fax Number**	505-346-2542

Catalog Information

Number of Samples	45	**Date Submitted**	08/10/09
Disposition of Samples	Return	**Catalog Validation**	Validated
Chain of Custody	No	**Fields Missing**	0
Submitter has Split Samples	No	**Non-Routine Request**	No
Request Permanent Lock	No	**Rapid Turnaround**	No
Catalog Data Lock	Catalog and sample data are unlocked.		
Results Data Lock	There are no results for this catalog.		

Project Information

DEQ Project ID	N/A	**Regional Study ID**	N/A

FWS Refuge Names

The results of this catalog are directly applicable to the following FWS refuges:
Bosque Del Apache National Wildlife Refuge , New Mexico
Sevilleta National Wildlife Refuge , New Mexico

Catalog Description
Catalog Instructions
The priority where samples have multiple chemical analyses requested is 209 PCB by HRGC/HRMS, lipids, organochlorine pesticides, heavy metals (and As, Hg, Se), PBDEs, dioxins, aromatics and then other analytes. Note that the fish was dissected and stored in a freezer for up to 2 years, and therefore, moisture content has likely largely been lost and is NOT a priority for analysis although this "analyte" has been requested.

Cost Code Information

Priority	Cost Code	Dollars Available

1	09-22420-1946-2013	$40,600
	Total	$40,600

Regional Approval

Region	Current Regional Coordinator	Approval Date	Phone Number	E-Mail Address
2	Laila Lienesch	08/14/09	505-248-6494 ext.	laila_lienesch@fws.gov

Catalog Status Information

Purchase Order Number	Lab Name	Analysis Type	PO Generated	Lab Approval	Current *PCD	QA/QC Approval	Results Location

Catalog Cost

Purchase Order Number	Lab Name	Analysis Type	Cost Code	Cost

Sample Number - 7-06-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	79.6 grams	**Collection Date**	07/27/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 - MRG near Bernalillo, NM above and below 550 Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.32121025	35 N 19 ' 16 "	3909779 N
Longitude	-106.55842789	-106 E 33 ' 30 "	358343 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	83.6 grams	**Collection Date**	07/26/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site2 - MRG at Alameda NM, below AMAFCA NDC		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.20897414	35 N 12 ' 32 "	3897417 N
Longitude	-106.61797315	-106 E 37 ' 4 "	352727 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis

Metals Scan

Sample Number - 7-06-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	32.9 grams	**Collection Date**	07/25/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	SIte3-MRG at Los Padillas, NM above I-25 Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.97261343	34 N 58 ' 21 "	3871311 N
Longitude	-106.69041188	-106 E 41 ' 25 "	345688 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all fish from the site were removed from foil and composited into a jar for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	59.0 grams	**Collection Date**	07/20/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 - MRG at Los Lunas - above Main Street Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81456722	34 N 48 ' 52 "	3853814 N
Longitude	-106.71109672	-106 E 42 ' 39 "	343500 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	64.5 grams	**Collection Date**	07/19/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG near La Joya, NM. above Sevilleta NWR portion of Rio		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**

Latitude	34.31230631	34 N 18 ' 44 "	3798341 N
Longitude	-106.854025	-106 E 51 ' 14 "	329403 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	40.3 grams	**Collection Date**	07/18/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 - MRG near San Antonio, NM north of Bosque del Apache NWR border		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	33.87452474	33 N 52 ' 28 "	3749783 N
Longitude	-106.84959324	-106 E 50 ' 58 "	328932 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-08-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	63.0 grams	**Collection Date**	07/16/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 - MRG at Bernalillo, NM (above and below 550 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.32125645	35 N 19 ' 16 "	3909784 N
Longitude	-106.55834077	-106 E 33 ' 30 "	358351 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*

N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 7-08-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	53.6 grams	**Collection Date**	07/15/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda, NM above Alameda Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.20892995	35 N 12 ' 32 "	3897412 N
Longitude	-106.61790636	-106 E 37 ' 4 "	352733 E

Coordinate Method	UTM Coordinates

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 4-08-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	189.9 grams	**Collection Date**	04/13/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 - MRG at Los Padillas (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.01396395	35 N 0 ' 50 "	3875872 N
Longitude	-106.67395835	-106 E 40 ' 26 "	347267 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-08-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	28.3 grams	**Collection Date**	07/10/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4- MRG near Los Lunas (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81916416	34 N 49 ' 8 "	3854327 N
Longitude	-106.713116	-106 E 42 ' 47 "	343324 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 1-08-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	76.3 grams	**Collection Date**	01/23/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG near La Joya, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31200231	34 N 18 ' 43 "	3798307 N
Longitude	-106.85385532	-106 E 51 ' 13 "	329418 E

Coordinate Method	UTM Coordinates

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 10-07-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	25.7 grams	**Collection Date**	10/31/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 - MRG at Bernalillo, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.3125136	35 N 18 ' 45 "	3908815 N
Longitude	-106.55884398	-106 E 33 ' 31 "	358290 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	26.7 grams	**Collection Date**	10/30/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 MRG at Alameda, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.20886524	35 N 12 ' 31 "	3897405 N
Longitude	-106.61802592	-106 E 37 ' 4 "	352722 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	43.3 grams	**Collection Date**	10/29/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas, NM (above I-25 Bridge)		

FWS Refuge	N/A

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.9735791	34 N 58 ' 24 "	3871418 N
Longitude	-106.6903441	-106 E 41 ' 25 "	345696 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	39.8 grams	**Collection Date**	10/25/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas, NM above main st bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.81863921	34 N 49 ' 7 "	3854269 N
Longitude	-106.7132582	-106 E 42 ' 47 "	343310 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	46.9 grams	**Collection Date**	10/24/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 MRG near La Joya, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31200231	34 N 18 ' 43 "	3798307 N
Longitude	-106.85385532	-106 E 51 ' 13 "	329418 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	29.0 grams	**Collection Date**	10/23/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio NM (above BdANWR border)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87600472	33 N 52 ' 33 "	3749947 N
Longitude	-106.84951707	-106 E 50 ' 58 "	328942 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 1-08-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	31.9 grams	**Collection Date**	01/30/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 MRG at Bernalillo, NM (above and below 550 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.31245022	35 N 18 ' 44 "	3908808 N
Longitude	-106.55886476	-106 E 33 ' 31 "	358288 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	52.6 grams	**Collection Date**	01/28/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda, NM above Alameda Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's

Latitude	35.20892167	35 N 12 ' 32 "	3897411 N
Longitude	-106.61785127	-106 E 37 ' 4 "	352738 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	50.3 grams	**Collection Date**	01/28/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.20786166	35 N 12 ' 28 "	3897411 N
Longitude	-106.69530751	-106 E 41 ' 43 "	345685 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in

foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	47.1 grams	**Collection Date**	01/24/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.81820555	34 N 49 ' 5 "	3854220 N
Longitude	-106.71268071	-106 E 42 ' 45 "	343362 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	55.9 grams	**Collection Date**	01/22/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio, NM (just above BdANWR north border)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87474141	33 N 52 ' 29 "	3749807 N
Longitude	-106.84957629	-106 E 50 ' 58 "	328934 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis

Metals Scan

Sample Number - 4-08-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	33.5 grams	**Collection Date**	04/14/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 MRG at Bernalillo, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.32108775	35 N 19 ' 15 "	3909765 N
Longitude	-106.55813952	-106 E 33 ' 29 "	358369 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 10-06-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	77.8 grams	**Collection Date**	10/12/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda, NM (above Alameda Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.21089567	35 N 12 ' 39 "	3897432 N
Longitude	-106.61757152	-106 E 37 ' 3 "	352764 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-06-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	79.0 grams	**Collection Date**	10/07/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas (above I-25 Bridge)		

FWS Refuge	N/A

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.95743122	34 N 57 ' 26 "	3869618 N
Longitude	-106.68450383	-106 E 41 ' 4 "	346199 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
Necropsy fish composite - Individual health observations available. Gonads were removed. Some fluids were likely lost also.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize all minnow in sample before analyses. Note that priority for analysis is 209 PCB congeners, then OC + PCB aroclors, then dioxin/furan scan.

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)

PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-06-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	122.0 grams	**Collection Date**	10/16/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas, NM (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.81717205	34 N 49 ' 1 "	3854105 N
Longitude	-106.71244066	-106 E 42 ' 44 "	343382 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil

and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-06-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	110.2 grams	**Collection Date**	10/05/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG near La Joya, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31230631	34 N 18 ' 44 "	3798341 N
Longitude	-106.854025	-106 E 51 ' 14 "	329403 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 4-08-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A

Sample Weight	47.2 grams	**Collection Date**	04/15/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.2107287	35 N 12 ' 38 "	3897615 N
Longitude	-106.62025999	-106 E 37 ' 12 "	352522 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for

results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 4-08-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	134.7 grams	**Collection Date**	04/08/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 - MRG at Los Lunas, NM (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81907187	34 N 49 ' 8 "	3854317 N
Longitude	-106.71326716	-106 E 42 ' 47 "	343310 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 4-08-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	32.4 grams	**Collection Date**	04/09/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio, NM (above BdANWR border)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87436858	33 N 52 ' 27 "	3749766 N
Longitude	-106.84978446	-106 E 50 ' 59 "	328914 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PBDE - Polybrominated Diphenly Ethers
PCB Quantification of Individual Aroclors
Inorganic Analysis
Metals Scan

Sample Number - 7-08-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	16.1 grams	**Collection Date**	07/14/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3- MRG at Los Padillas, NM above I-25 Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.96696085	34 N 58 ' 1 "	3870683 N
Longitude	-106.68972619	-106 E 41 ' 23 "	345740 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 7-08-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	10.5 grams	**Collection Date**	07/09/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG at La Joya, NM above Sevilleta NWR		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.29909525	34 N 17 ' 56 "	3796864 N
Longitude	-106.84696582	-106 E 50 ' 49 "	330026 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities

(These observations were not necessarily determined by a pathologist)
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 7-08-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	16.6 grams	**Collection Date**	07/08/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 - MRG near San Antonio, NM above Bosque del Apache NWR		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.88534008	33 N 53 ' 7 "	3750975 N

Longitude	-106.8451451	-106 E 50 ' 42 "	329365 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

N/A

Inorganic Analysis

Metals Scan

Methyl Mercury

Sample Number - 10-06-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	38.5 grams	**Collection Date**	10/11/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 1 MRG at Bernalillo, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.21213359	35 N 12 ' 43 "	3897763 N
Longitude	-106.61498184	-106 E 36 ' 53 "	353005 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in

foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 4-07-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	49.2 grams	**Collection Date**	04/26/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 MRG near Bernalillo, NM (above and below 550 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.31455303	35 N 18 ' 52 "	3909042 N
Longitude	-106.5594001	-106 E 33 ' 33 "	358243 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		

Family	Cyprinidae
Genus / Kingdom	Hybognathus / Animalia
Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 4-07-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	46.7 grams	**Collection Date**	04/25/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 MRG near Alameda, NM (in side channel above Alameda Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.21174211	35 N 12 ' 42 "	3897723 N
Longitude	-106.61729205	-106 E 37 ' 2 "	352794 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

N/A

Inorganic Analysis

Metals Scan

Sample Number - 4-07-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	32.9 grams	**Collection Date**	04/24/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas, NM (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.97036675	34 N 58 ' 13 "	3871061 N
Longitude	-106.68988377	-106 E 41 ' 23 "	345732 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 4-07-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	53.1 grams	**Collection Date**	04/19/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas, NM (above Main Street Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81798048	34 N 49 ' 4 "	3854193 N
Longitude	-106.71137504	-106 E 42 ' 40 "	343481 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 4-07-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	29.9 grams	**Collection Date**	04/18/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 MRG near La Joya, NM (above Sevilleta NWR)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31455461	34 N 18 ' 52 "	3798592 N
Longitude	-106.85500898	-106 E 51 ' 18 "	329317 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 1-07-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	36.5 grams	**Collection Date**	01/24/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 MRG near Alameda, NM (above Alameda Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.20905205	35 N 12 ' 32 "	3897433 N
Longitude	-106.62292904	-106 E 37 ' 22 "	352276 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in

foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 1-07-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	95.3 grams	**Collection Date**	01/23/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG near Los Padillas, NM (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.21174211	35 N 12 ' 42 "	3897723 N
Longitude	-106.61729205	-106 E 37 ' 2 "	352794 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 2-07-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	117.5 grams	**Collection Date**	02/01/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG near Los Lunas, NM (above Main Street Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81427857	34 N 48 ' 51 "	3853783 N
Longitude	-106.7117467	-106 E 42 ' 42 "	343440 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

N/A

Inorganic Analysis

Metals Scan

Methyl Mercury

Sample Number - 1-07-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	42.7 grams	**Collection Date**	01/31/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 MRG near La Joya, NM (above Sevilleta NWR)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.30541029	34 N 18 ' 19 "	3797569 N
Longitude	-106.84973359	-106 E 50 ' 59 "	329784 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 1-07-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	118.0 grams	**Collection Date**	01/30/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio, NM (above Bosque del Apache NWR)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87900195	33 N 52 ' 44 "	3750278 N
Longitude	-106.84868442	-106 E 50 ' 55 "	329025 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		

Genus / Kingdom	Hybognathus / Animalia
Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 06385810

Sample Matrix	Water	**NWHC Case Number**	N/A
Sample Weight	N/A grams	**Collection Date**	06/25/09
Sample Volume	1000.0 ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Survey
Location	San Jose Drain		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.04416667	35 N 2 ' 39 "	3879184 N
Longitude	-106.64944444	-106 E 38 ' 58 "	349559 E
Coordinate Method		Latitude/Longitude Degrees	
Latitude/Longitude Method		GPS Unit - NAD 83 Reference System	

Specimen Information

Sex	N/A	**Age**	N/A
Egg Condition	N/A		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
Water sample collected with teflon nozzle intregated sampler using rod. Added to teflon churn, homogenized then split, unfiltered into container. Sample contains suspended sediment. Kept chilled and shipped chilled for chemical analysis.

Field Preparation Comments
Water sample collected with teflon nozzle intregated sampler using rod. Added to teflon churn, homogenized then split, unfiltered into 1 liter HDPE container. Sample contains suspended sediment. Kept chilled and shipped chilled for chemical analysis.
Analysis Requested Comments
Water sample contains suspended sediment, please homogenize before analysis.

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
Metals Scan

ECDMS Complete Catalog - 2020128

08/26/09

Catalog Submitter

Catalog Title	Rio Grande Silvery Minnow Health Study		
Catalog Submitter	Lusk, Joel		
Submitter Title	Senior Environmental Contaminant Specialist		
Location	New Mexico Ecological Services Field Office, NM		
Submitters Email	joel_lusk@fws.gov		
Phone Number	(505) 761-4709 ext. 109	**Fax Number**	505-346-2542

Catalog Information

Number of Samples	45	**Date Submitted**	08/10/09
Disposition of Samples	Return	**Catalog Validation**	Validated
Chain of Custody	No	**Fields Missing**	0
Submitter has Split Samples	No	**Non-Routine Request**	No
Request Permanent Lock	No	**Rapid Turnaround**	No
Catalog Data Lock	Catalog and sample data are unlocked.		
Results Data Lock	There are no results for this catalog.		

Project Information

DEQ Project ID	N/A	**Regional Study ID**	N/A

FWS Refuge Names

The results of this catalog are directly applicable to the following FWS refuges:
Bosque Del Apache National Wildlife Refuge , New Mexico
Sevilleta National Wildlife Refuge , New Mexico

Catalog Description
Catalog Instructions
The priority where samples have multiple chemical analyses requested is 209 PCB by HRGC/HRMS, lipids, organochlorine pesticides, heavy metals (and As, Hg, Se), PBDEs, dioxins, aromatics and then other analytes. Note that the fish was dissected and stored in a freezer for up to 2 years, and therefore, moisture content has likely largely been lost and is NOT a priority for analysis although this "analyte" has been requested.

Cost Code Information

Priority	Cost Code	Dollars Available

1	09-22420-1946-2013	$40,600
	Total	$40,600

Regional Approval

Region	Current Regional Coordinator	Approval Date	Phone Number	E-Mail Address
2	Laila Lienesch	08/14/09	505-248-6494 ext.	laila_lienesch@fws.gov

Catalog Status Information

Purchase Order Number	Lab Name	Analysis Type	PO Generated	Lab Approval	Current *PCD	QA/QC Approval	Results Location

Catalog Cost

Purchase Order Number	Lab Name	Analysis Type	Cost Code	Cost

Sample Number - 7-06-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	79.6 grams	**Collection Date**	07/27/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 - MRG near Bernalillo, NM above and below 550 Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.32121025	35 N 19 ' 16 "	3909779 N
Longitude	-106.55842789	-106 E 33 ' 30 "	358343 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	83.6 grams	**Collection Date**	07/26/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site2 - MRG at Alameda NM, below AMAFCA NDC		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.20897414	35 N 12 ' 32 "	3897417 N
Longitude	-106.61797315	-106 E 37 ' 4 "	352727 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis

Metals Scan

Sample Number - 7-06-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	32.9 grams	**Collection Date**	07/25/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	SIte3-MRG at Los Padillas, NM above I-25 Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.97261343	34 N 58 ' 21 "	3871311 N
Longitude	-106.69041188	-106 E 41 ' 25 "	345688 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all fish from the site were removed from foil and composited into a jar for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	59.0 grams	**Collection Date**	07/20/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 - MRG at Los Lunas - above Main Street Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81456722	34 N 48 ' 52 "	3853814 N
Longitude	-106.71109672	-106 E 42 ' 39 "	343500 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	64.5 grams	**Collection Date**	07/19/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG near La Joya, NM. above Sevilleta NWR portion of Rio		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**

Latitude	34.31230631	34 N 18 ' 44 "	3798341 N
Longitude	-106.854025	-106 E 51 ' 14 "	329403 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-06-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	40.3 grams	**Collection Date**	07/18/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 - MRG near San Antonio, NM north of Bosque del Apache NWR border		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	33.87452474	33 N 52 ' 28 "	3749783 N
Longitude	-106.84959324	-106 E 50 ' 58 "	328932 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-08-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	63.0 grams	**Collection Date**	07/16/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 - MRG at Bernalillo, NM (above and below 550 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.32125645	35 N 19 ' 16 "	3909784 N
Longitude	-106.55834077	-106 E 33 ' 30 "	358351 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*

N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 7-08-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	53.6 grams	**Collection Date**	07/15/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda, NM above Alameda Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.20892995	35 N 12 ' 32 "	3897412 N
Longitude	-106.61790636	-106 E 37 ' 4 "	352733 E

Coordinate Method	UTM Coordinates

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 4-08-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	189.9 grams	**Collection Date**	04/13/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 - MRG at Los Padillas (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.01396395	35 N 0 ' 50 "	3875872 N
Longitude	-106.67395835	-106 E 40 ' 26 "	347267 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 7-08-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	28.3 grams	**Collection Date**	07/10/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4- MRG near Los Lunas (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81916416	34 N 49 ' 8 "	3854327 N
Longitude	-106.713116	-106 E 42 ' 47 "	343324 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 1-08-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	76.3 grams	**Collection Date**	01/23/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG near La Joya, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31200231	34 N 18 ' 43 "	3798307 N
Longitude	-106.85385532	-106 E 51 ' 13 "	329418 E

Coordinate Method	UTM Coordinates

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 10-07-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	25.7 grams	**Collection Date**	10/31/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 - MRG at Bernalillo, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.3125136	35 N 18 ' 45 "	3908815 N
Longitude	-106.55884398	-106 E 33 ' 31 "	358290 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	26.7 grams	**Collection Date**	10/30/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 MRG at Alameda, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.20886524	35 N 12 ' 31 "	3897405 N
Longitude	-106.61802592	-106 E 37 ' 4 "	352722 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	43.3 grams	**Collection Date**	10/29/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas, NM (above I-25 Bridge)		

FWS Refuge	N/A

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.9735791	34 N 58 ' 24 "	3871418 N
Longitude	-106.6903441	-106 E 41 ' 25 "	345696 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	39.8 grams	**Collection Date**	10/25/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas, NM above main st bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.81863921	34 N 49 ' 7 "	3854269 N
Longitude	-106.7132582	-106 E 42 ' 47 "	343310 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	46.9 grams	**Collection Date**	10/24/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 MRG near La Joya, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31200231	34 N 18 ' 43 "	3798307 N
Longitude	-106.85385532	-106 E 51 ' 13 "	329418 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-07-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	29.0 grams	**Collection Date**	10/23/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio NM (above BdANWR border)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87600472	33 N 52 ' 33 "	3749947 N
Longitude	-106.84951707	-106 E 50 ' 58 "	328942 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 1-08-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	31.9 grams	**Collection Date**	01/30/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 MRG at Bernalillo, NM (above and below 550 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.31245022	35 N 18 ' 44 "	3908808 N
Longitude	-106.55886476	-106 E 33 ' 31 "	358288 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	52.6 grams	**Collection Date**	01/28/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda, NM above Alameda Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's

Latitude	35.20892167	35 N 12 ' 32 "	3897411 N
Longitude	-106.61785127	-106 E 37 ' 4 "	352738 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	50.3 grams	**Collection Date**	01/28/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.20786166	35 N 12 ' 28 "	3897411 N
Longitude	-106.69530751	-106 E 41 ' 43 "	345685 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in

foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	47.1 grams	**Collection Date**	01/24/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.81820555	34 N 49 ' 5 "	3854220 N
Longitude	-106.71268071	-106 E 42 ' 45 "	343362 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis
Metals Scan

Sample Number - 1-08-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	55.9 grams	**Collection Date**	01/22/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio, NM (just above BdANWR north border)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87474141	33 N 52 ' 29 "	3749807 N
Longitude	-106.84957629	-106 E 50 ' 58 "	328934 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
Aliphatic Scan
Aromatic Scan
Inorganic Analysis

Metals Scan

Sample Number - 4-08-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	33.5 grams	**Collection Date**	04/14/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 MRG at Bernalillo, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.32108775	35 N 19 ' 15 "	3909765 N
Longitude	-106.55813952	-106 E 33 ' 29 "	358369 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 10-06-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	77.8 grams	**Collection Date**	10/12/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda, NM (above Alameda Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.21089567	35 N 12 ' 39 "	3897432 N
Longitude	-106.61757152	-106 E 37 ' 3 "	352764 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-06-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	79.0 grams	**Collection Date**	10/07/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas (above I-25 Bridge)		

FWS Refuge	N/A

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.95743122	34 N 57 ' 26 "	3869618 N
Longitude	-106.68450383	-106 E 41 ' 4 "	346199 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
Necropsy fish composite - Individual health observations available. Gonads were removed. Some fluids were likely lost also.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize all minnow in sample before analyses. Note that priority for analysis is 209 PCB congeners, then OC + PCB aroclors, then dioxin/furan scan.

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)

PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-06-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	122.0 grams	**Collection Date**	10/16/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas, NM (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.81717205	34 N 49 ' 1 "	3854105 N
Longitude	-106.71244066	-106 E 42 ' 44 "	343382 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil

and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 10-06-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	110.2 grams	**Collection Date**	10/05/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG near La Joya, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31230631	34 N 18 ' 44 "	3798341 N
Longitude	-106.854025	-106 E 51 ' 14 "	329403 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 4-08-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A

Sample Weight	47.2 grams	**Collection Date**	04/15/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 - MRG at Alameda		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.2107287	35 N 12 ' 38 "	3897615 N
Longitude	-106.62025999	-106 E 37 ' 12 "	352522 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for

results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 4-08-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	134.7 grams	**Collection Date**	04/08/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 - MRG at Los Lunas, NM (above Main St Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81907187	34 N 49 ' 8 "	3854317 N
Longitude	-106.71326716	-106 E 42 ' 47 "	343310 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
PBDE - Polybrominated Diphenly Ethers
Inorganic Analysis
Metals Scan

Sample Number - 4-08-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	32.4 grams	**Collection Date**	04/09/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio, NM (above BdANWR border)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87436858	33 N 52 ' 27 "	3749766 N
Longitude	-106.84978446	-106 E 50 ' 59 "	328914 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PBDE - Polybrominated Diphenly Ethers
PCB Quantification of Individual Aroclors
Inorganic Analysis
Metals Scan

Sample Number - 7-08-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	16.1 grams	**Collection Date**	07/14/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3- MRG at Los Padillas, NM above I-25 Bridge		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.96696085	34 N 58 ' 1 "	3870683 N
Longitude	-106.68972619	-106 E 41 ' 23 "	345740 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 7-08-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	10.5 grams	**Collection Date**	07/09/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 - MRG at La Joya, NM above Sevilleta NWR		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.29909525	34 N 17 ' 56 "	3796864 N
Longitude	-106.84696582	-106 E 50 ' 49 "	330026 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities

(These observations were not necessarily determined by a pathologist)
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 7-08-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	16.6 grams	**Collection Date**	07/08/08
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 - MRG near San Antonio, NM above Bosque del Apache NWR		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.88534008	33 N 53 ' 7 "	3750975 N

Longitude	-106.8451451	-106 E 50 ' 42 "	329365 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

N/A

Inorganic Analysis

Metals Scan

Methyl Mercury

Sample Number - 10-06-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	38.5 grams	**Collection Date**	10/11/06
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 1 MRG at Bernalillo, NM		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.21213359	35 N 12 ' 43 "	3897763 N
Longitude	-106.61498184	-106 E 36 ' 53 "	353005 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in

foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Dioxin & Furan Full Scan
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
N/A

Sample Number - 4-07-1

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	49.2 grams	**Collection Date**	04/26/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Sandoval	**Site Classification**	Monitoring
Location	Site 1 MRG near Bernalillo, NM (above and below 550 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.31455303	35 N 18 ' 52 "	3909042 N
Longitude	-106.5594001	-106 E 33 ' 33 "	358243 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		

Family	Cyprinidae
Genus / Kingdom	Hybognathus / Animalia
Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 4-07-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	46.7 grams	**Collection Date**	04/25/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 MRG near Alameda, NM (in side channel above Alameda Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.21174211	35 N 12 ' 42 "	3897723 N
Longitude	-106.61729205	-106 E 37 ' 2 "	352794 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

N/A

Inorganic Analysis

Metals Scan

Sample Number - 4-07-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	32.9 grams	**Collection Date**	04/24/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG at Los Padillas, NM (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.97036675	34 N 58 ' 13 "	3871061 N
Longitude	-106.68988377	-106 E 41 ' 23 "	345732 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 4-07-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	53.1 grams	**Collection Date**	04/19/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG at Los Lunas, NM (above Main Street Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81798048	34 N 49 ' 4 "	3854193 N
Longitude	-106.71137504	-106 E 42 ' 40 "	343481 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 4-07-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	29.9 grams	**Collection Date**	04/18/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 MRG near La Joya, NM (above Sevilleta NWR)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.31455461	34 N 18 ' 52 "	3798592 N
Longitude	-106.85500898	-106 E 51 ' 18 "	329317 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan

Sample Number - 1-07-2

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	36.5 grams	**Collection Date**	01/24/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 2 MRG near Alameda, NM (above Alameda Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.20905205	35 N 12 ' 32 "	3897433 N
Longitude	-106.62292904	-106 E 37 ' 22 "	352276 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in

foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 1-07-3

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	95.3 grams	**Collection Date**	01/23/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Monitoring
Location	Site 3 MRG near Los Padillas, NM (above I-25 Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	35.21174211	35 N 12 ' 42 "	3897723 N
Longitude	-106.61729205	-106 E 37 ' 2 "	352794 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		

Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 2-07-4

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	117.5 grams	**Collection Date**	02/01/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Valencia	**Site Classification**	Monitoring
Location	Site 4 MRG near Los Lunas, NM (above Main Street Bridge)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	34.81427857	34 N 48 ' 51 "	3853783 N
Longitude	-106.7117467	-106 E 42 ' 42 "	343440 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities
(These observations were not necessarily determined by a pathologist)

N/A

Sample Comments

These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments

Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.

Analysis Requested Comments

Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis

N/A

Inorganic Analysis

Metals Scan

Methyl Mercury

Sample Number - 1-07-5

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	42.7 grams	**Collection Date**	01/31/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 5 MRG near La Joya, NM (above Sevilleta NWR)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	**Deg./Min./Sec.**	**UTM's**
Latitude	34.30541029	34 N 18 ' 19 "	3797569 N
Longitude	-106.84973359	-106 E 50 ' 59 "	329784 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		
Genus / Kingdom	Hybognathus / Animalia		
Species	Hybognathus amarus		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 1-07-6

Sample Matrix	Partial Carcass	**NWHC Case Number**	N/A
Sample Weight	118.0 grams	**Collection Date**	01/30/07
Sample Volume	N/A ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Socorro	**Site Classification**	Monitoring
Location	Site 6 MRG near San Antonio, NM (above Bosque del Apache NWR)		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	33.87900195	33 N 52 ' 44 "	3750278 N
Longitude	-106.84868442	-106 E 50 ' 55 "	329025 E
Coordinate Method		UTM Coordinates	

Specimen Information

Sex	Mixed (composite)	**Age**	Adult
Egg Condition	N/A		
Taxonomical Group	Fish		
Common Name	Rio Grande Silvery Minnow		
Family	Cyprinidae		

Genus / Kingdom	Hybognathus / Animalia
Species	Hybognathus amarus

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
These Rio Grande silvery minnow were seined from the Rio Grande at various sites and dates. They were held in a live well until necropsy. After being subdued by a blow to the head, individual health observations were made and recorded elsewhere. The gonads were removed for histopathology. During the necropsy, these organs as well as various fluids were lost from the sample. The remaining innards were tucked back in and each individual fish was wrapped in aluminum foil and stored in freezer for up to 2 years. Up to 30 fish (or more) were then composited into a labeled jar and shipped frozen for chemical analyses.

Field Preparation Comments
Seine collection, kept alive, subdued by blow to head, dissected for observations, gonads removed, individual frozen in foil, then all from site removed and composited for chemical analyses.
Analysis Requested Comments
Please homogenize and composite all minnow in a sample. For those samples with multiple analyses, the priority for results is the 209 PCB by HRGC/HRMS, then the Organochlorine scan (with determination of percent lipids is Priority 2), then determination of PBDE and/or dioxin/furan, then the Metal Scan and/or methyl mercury is Priority 4 (moisture content is also requested but is not a priority).

Analysis Requested

Organic Analysis
N/A
Inorganic Analysis
Metals Scan
Methyl Mercury

Sample Number - 06385810

Sample Matrix	Water	**NWHC Case Number**	N/A
Sample Weight	N/A grams	**Collection Date**	06/25/09
Sample Volume	1000.0 ml.	**Composite Sample**	Yes
State	New Mexico	**USGS Watershed**	13020203
County	Bernalillo	**Site Classification**	Survey
Location	San Jose Drain		
FWS Refuge	N/A		

Site Coordinates

	Decimal Degrees	Deg./Min./Sec.	UTM's
Latitude	35.04416667	35 N 2 ' 39 "	3879184 N
Longitude	-106.64944444	-106 E 38 ' 58 "	349559 E
Coordinate Method		Latitude/Longitude Degrees	
Latitude/Longitude Method		GPS Unit - NAD 83 Reference System	

Specimen Information

Sex	N/A	**Age**	N/A
Egg Condition	N/A		

Specimen Abnormalities *(These observations were not necessarily determined by a pathologist)*
N/A

Sample Comments
Water sample collected with teflon nozzle intregated sampler using rod. Added to teflon churn, homogenized then split, unfiltered into container. Sample contains suspended sediment. Kept chilled and shipped chilled for chemical analysis.

Field Preparation Comments
Water sample collected with teflon nozzle intregated sampler using rod. Added to teflon churn, homogenized then split, unfiltered into 1 liter HDPE container. Sample contains suspended sediment. Kept chilled and shipped chilled for chemical analysis.
Analysis Requested Comments
Water sample contains suspended sediment, please homogenize before analysis.

Analysis Requested

Organic Analysis
209 PCB by HRGC/HRMS (EPA 1668a)
Organochlorine Scan (OC)
PCB Quantification of Individual Aroclors
Inorganic Analysis
Metals Scan

Appendix 3D. Moisture content and concentrations of elements and methyl mercury in Rio Grande silvery minnow carcasses from all sites expressed as µg/g dry weight. ["Sample ID", sample identification number, includes month and year sampled and site number; "µg/g", micrograms per gram; "<", less than laboratory method detection limit; see Table 2 for chemical names and abbreviations; see Table 1 for site number, descripton and location]

Sample ID	Collection Date	Site Number	Moisture Percent	Al µg/g	As µg/g
7-06-1	7/27/2006	1	73.2	1150	3.27
4-07-1	4/26/2007	1	74.1	382	3.02
1-08-1	1/30/2008	1	75.2	140	4.49
4-08-1	4/16/2008	1	73.0	383	3.41
7-08-1	7/16/2008	1	71.6	542	4.10
7-06-2	7/26/2006	2	72.5	970	3.08
1-07-2	1/24/2007	2	76.2	141	3.50
4-07-2	4/25/2007	2	75.3	429	3.29
1-08-2	1/29/2008	2	74.7	162	3.92
4-08-2	4/15/2008	2	72.0	317	3.70
7-08-2	7/15/2008	2	71.5	419	3.75
7-06-3	7/25/2006	3	71.5	767	2.68
1-07-3	1/23/2007	3	76.6	96	3.43
4-07-3	4/24/2007	3	74.0	256	2.74
1-08-3	1/28/2008	3	73.2	95	3.77
4-08-3	4/14/2008	3	71.0	111	2.67
7-08-3	7/14/2008	3	72.8	81	2.83
7-06-4	7/20/2006	4	66.5	626	2.68
2-07-4	2/1/2007	4	72.2	61	3.13
4-07-4	4/19/2007	4	74.3	450	3.09
1-08-4	1/24/2008	4	72.6	142	2.70
4-08-4	4/8/2008	4	73.0	214	2.78
7-08-4	7/10/2008	4	73.5	394	3.43
7-06-5	7/19/2006	5	68.8	328	2.80
1-07-5	1/31/2007	5	72.2	109	2.96
4-07-5	4/18/2007	5	73.5	201	2.79
1-08-5	1/23/2008	5	72.7	36	3.10
7-08-5	7/9/2008	5	71.5	205	3.20
7-06-6	7/18/2006	6	69.8	289	2.55
1-07-6	1/30/2007	6	72.9	127	3.26
1-08-6	1/22/2008	6	70.7	73	2.73
4-08-6	4/9/2008	6	73.3	95	2.67
7-08-6	7/8/2008	6	71.3	31	2.80

Appendix 3D. Moisture content and concentrations of elements and methyl mercury in Rio Grande silvery minnow carcasses from all sites expressed as µg/g dry weight. ["Sample ID", sample identification number, includes month and year sampled and site number; "µg/g", micrograms per gram; "<", less than laboratory method detection limit; see Table 2 for chemical names and abbreviations; see Table 1 for site number, descripton and location]

Sample ID	B µg/g	Ba µg/g	Be µg/g	Cd µg/g	Cr µg/g	Cu µg/g	Fe µg/g
7-06-1	1.050	88.0	0.0578	0.1150	3.730	31.70	1180
4-07-1	< 0.511	79.0	< 0.0511	< 0.0193	0.618	3.49	457
1-08-1	< 0.519	88.4	< 0.0519	0.0627	0.753	3.78	149
4-08-1	< 0.509	69.5	< 0.0509	0.0436	0.925	3.34	408
7-08-1	0.562	71.4	< 0.0468	0.0776	< 0.468	3.72	749
7-06-2	0.705	74.3	< 0.0517	0.0542	2.630	18.20	1060
1-07-2	< 0.462	79.3	< 0.0462	0.0695	< 0.462	3.30	203
4-07-2	< 0.513	70.0	< 0.0513	< 0.0194	0.783	3.25	496
1-08-2	< 0.508	69.3	< 0.0508	0.0359	1.230	46.70	181
4-08-2	< 0.511	67.7	< 0.0511	< 0.0193	0.662	3.17	344
7-08-2	< 0.463	67.6	< 0.0463	0.0230	< 0.463	3.19	574
7-06-3	0.651	59.8	< 0.0500	< 0.0189	2.580	3.28	838
1-07-3	< 0.431	68.0	< 0.0431	0.0371	< 0.431	3.20	151
4-07-3	< 0.512	65.2	< 0.0512	< 0.0193	0.513	2.79	290
1-08-3	< 0.520	62.1	< 0.0520	< 0.0196	< 0.520	3.47	125
4-08-3	< 0.508	49.8	< 0.0508	< 0.0192	< 0.508	20.00	141
7-08-3	< 0.484	47.5	< 0.0484	< 0.0097	< 0.484	2.56	130
7-06-4	0.576	65.3	< 0.0524	< 0.0198	2.060	2.81	634
2-07-4	< 0.434	47.8	< 0.0434	< 0.0087	< 0.434	2.67	106
4-07-4	< 0.507	59.0	< 0.0507	< 0.0191	0.752	3.57	511
1-08-4	< 0.508	56.1	< 0.0508	< 0.0192	< 0.508	3.76	178
4-08-4	< 0.512	55.3	< 0.0512	< 0.0193	0.602	14.90	233
7-08-4	< 0.449	64.2	< 0.0449	< 0.0090	< 0.449	3.07	590
7-06-5	< 0.513	54.4	< 0.0513	< 0.0194	0.993	2.31	344
1-07-5	0.477	22.1	< 0.0425	< 0.0086	< 0.425	2.69	162
4-07-5	0.758	29.7	< 0.0493	< 0.0099	< 0.493	3.00	294
1-08-5	< 0.459	34.7	< 0.0459	< 0.0092	< 0.459	2.89	66
7-08-5	< 0.470	42.0	< 0.0470	< 0.0094	< 0.470	3.22	314
7-06-6	< 0.521	57.6	< 0.0521	< 0.0197	0.728	2.32	309
1-07-6	< 0.439	37.3	< 0.0439	< 0.0088	< 0.439	2.58	178
1-08-6	< 0.502	22.1	< 0.0502	< 0.0190	< 0.502	6.91	101
4-08-6	< 0.506	30.6	< 0.0506	< 0.0191	< 0.506	3.01	163
7-08-6	< 0.456	26.3	< 0.0456	< 0.0091	< 0.456	2.78	69

Appendix 3D. Moisture content and concentrations of elements and methyl mercury in Rio Grande silvery minnow carcasses from all sites expressed as µg/g dry weight. ["Sample ID", sample identification number, includes month and year sampled and site number; "µg/g", micrograms per gram; "<", less than laboratory method detection limit; see Table 2 for chemical names and abbreviations; see Table 1 for site number, descripton and location]

Sample ID	Hg µg/g	MeHg µg/g	Mg µg/g	Mn µg/g	Mo µg/g	Ni µg/g	Pb µg/g
7-06-1	0.277		2000	58.2	< 1.04	13.30	1.120
4-07-1	0.282		1730	32.4	< 1.02	1.24	0.376
1-08-1	0.150		1560	17.8	< 1.04	0.74	0.152
4-08-1	0.129		1410	27.1	< 1.02	1.25	0.298
7-08-1	0.192	0.181	1570	56.6	< 0.94	0.90	0.959
7-06-2	0.273		1700	52.4	< 1.03	12.90	1.470
1-07-2	0.315	0.221	1550	24.0	< 0.92	0.47	0.416
4-07-2	0.251		1570	34.1	< 1.03	1.15	0.522
1-08-2	0.146		1440	17.0	< 1.02	7.50	0.291
4-08-2	0.123		1470	22.9	< 1.02	0.95	0.289
7-08-2	0.195	0.197	1440	62.8	< 0.93	0.87	0.722
7-06-3	0.205		1780	39.9	< 1.00	2.24	0.763
1-07-3	0.296	0.241	1590	16.4	< 0.86	0.54	0.395
4-07-3	0.202		1390	24.3	< 1.02	0.92	0.290
1-08-3	0.125		1400	10.7	< 1.04	0.86	0.166
4-08-3	0.106		1310	13.0	< 1.02	4.58	0.305
7-08-3	0.136	0.143	1300	14.8	< 0.97	< 0.48	0.343
7-06-4	0.181		1690	36.8	< 1.05	1.87	0.668
2-07-4	0.141	0.141	1330	12.5	< 0.87	< 0.43	0.326
4-07-4	0.161		1710	28.4	< 1.01	1.26	0.557
1-08-4	0.086		1390	12.9	< 1.02	0.69	0.191
4-08-4	0.111		1460	17.2	< 1.02	3.27	0.293
7-08-4	0.219	0.199	1520	35.6	< 0.90	0.87	0.908
7-06-5	0.185		1640	49.9	< 1.03	1.10	0.392
1-07-5	0.198	0.164	1150	16.3	< 0.85	0.47	0.272
4-07-5	0.216		1360	35.1	< 0.99	< 0.49	0.562
1-08-5	0.102	0.100	1280	13.1	< 0.92	< 0.46	0.214
7-08-5	0.204	0.221	1470	38.8	< 0.94	0.62	0.435
7-06-6	0.232		1530	31.7	< 1.04	1.19	0.338
1-07-6	0.258	0.256	1290	15.6	< 0.88	< 0.44	0.290
1-08-6	0.102		1240	11.8	< 1.00	3.45	0.115
4-08-6	0.120		1450	15.8	< 1.01	0.64	0.120
7-08-6	0.357	0.360	1260	14.0	< 0.91	< 0.46	0.136

Appendix 3D. Moisture content and concentrations of elements and methyl mercury in Rio Grande silvery minnow carcasses from all sites expressed as µg/g dry weight. ["Sample ID", sample identification number, includes month and year sampled and site number; "µg/g", micrograms per gram; "<", less than laboratory method detection limit; see Table 2 for chemical names and abbreviations; see Table 1 for site number, descripton and location]

Sample ID	Se µg/g	Sr µg/g	V µg/g	Zn µg/g
7-06-1	2.09	162	3.15	156
4-07-1	2.00	138	1.32	140
1-08-1	2.06	154	0.55	165
4-08-1	1.36	107	1.30	136
7-08-1	1.74	120	1.47	149
7-06-2	2.42	123	2.48	140
1-07-2	2.16	176	1.26	179
4-07-2	1.66	145	1.84	135
1-08-2	2.08	144	0.91	138
4-08-2	1.81	131	1.13	122
7-08-2	1.89	105	1.22	143
7-06-3	1.74	164	2.81	147
1-07-3	2.52	147	0.85	159
4-07-3	1.31	150	1.49	140
1-08-3	1.70	147	0.71	136
4-08-3	1.68	109	0.71	119
7-08-3	1.69	104	< 0.48	135
7-06-4	1.81	154	1.74	170
2-07-4	1.81	108	< 0.43	114
4-07-4	2.07	129	1.56	126
1-08-4	1.89	121	0.79	132
4-08-4	1.53	124	0.94	127
7-08-4	1.84	121	1.35	145
7-06-5	1.42	187	1.19	146
1-07-5	3.19	143	0.67	114
4-07-5	2.33	155	0.98	125
1-08-5	2.03	134	< 0.46	112
7-08-5	1.92	128	0.71	153
7-06-6	1.40	170	1.12	165
1-07-6	1.85	134	0.66	110
1-08-6	2.84	175	0.61	131
4-08-6	1.69	186	0.79	133
7-08-6	1.92	99	< 0.46	132

Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]

Sample ID	Collection Date	Site Number	Percent Lipid	Percent Moisture	Aldrin	alpha BHC	alpha chlordane
7-06-1	7/27/2006	1	5.5	73.9			
10-06-1	10/11/2006	1	7.7	73.3	< 0.122	< 0.209	1.710
10-07-1	10/31/2007	1	5.3	71.7	< 0.122	< 0.209	0.269
1-08-1	1/30/2008	1	4.1	76.4			
4-08-1	4/16/2008	1	7.5	76.2			
7-06-2	7/26/2006	2	6.8	74.1			
10-06-2	10/12/2006	2	5.4	74.6	< 0.122	< 0.209	2.540
10-07-2	10/30/2007	2	6.9	71.4	< 0.122	< 0.209	1.360
1-08-2	1/29/2008	2	4.3	73.8			
4-08-2	4/15/2008	2	6.1	74.3			
7-06-3	7/25/2006	3	5.9	74.2			
10-06-3	10/17/2006	3	6.6	70.0	< 0.122	< 0.209	5.660
10-07-3	10/29/2007	3	8.2	70.6	< 0.122	< 0.209	9.380
1-08-3	1/28/2008	3	5.0	72.6			
4-08-3	4/14/2008	3	7.7	72.4			
7-06-4	7/20/2006	4	10.8	69.0			
10-06-4	10/16/2006	4	7.8	71.3	< 0.122	< 0.209	6.490
10-07-4	10/25/2007	4	5.7	76.4	< 0.122	< 0.209	6.750
1-08-4	1/24/2008	4	6.6	74.1			
4-08-4	4/8/2008	4	5.5	73.3			
7-06-5	7/19/2006	5	7.7	72.1			
10-06-5	10/18/2006	5	7.9	69.9	< 0.122	< 0.209	3.170
10-07-5	10/24/2007	5	5.8	73.7	< 0.122	< 0.209	3.230
1-08-5	1/23/2008	5					
7-06-6	7/18/2006	6	8.0	73.5			
10-07-6	10/23/2007	6	6.0	74.5	< 0.122	< 0.209	0.419
1-08-6	1/22/2008	6	7.5	73.3			
4-08-6	4/9/2008	6	5.6	74.8	< 0.122	< 0.209	2.180

Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]

Sample ID	cis-nonachlor	gamma chlordane	oxy-chlordane	trans-nonachlor	beta BHC	gamma BHC (Lindane)	BHC-Total
7-06-1							
10-06-1	0.973	0.856	0.305	2.29	<0.224	<0.094	<0.359
10-07-1	0.157	<0.155	0.202	0.44	<0.224	<0.094	<0.359
1-08-1							
4-08-1							
7-06-2							
10-06-2	1.160	1.230	0.251	3.44	<0.224	<0.094	<0.359
10-07-2	0.656	0.946	0.265	2.20	<0.224	<0.094	<0.359
1-08-2							
4-08-2							
7-06-3							
10-06-3	2.210	3.220	0.332	7.21	<0.224	<0.094	<0.359
10-07-3	3.440	5.460	0.493	10.70	<0.224	2.640	2.640
1-08-3							
4-08-3							
7-06-4							
10-06-4	2.770	3.280	0.520	8.05	<0.224	<0.094	<0.359
10-07-4	3.370	3.240	0.398	8.76	<0.224	0.117	<0.359
1-08-4							
4-08-4							
7-06-5							
10-06-5	1.590	1.500	0.324	3.90	<0.224	<0.094	<0.359
10-07-5	1.740	1.580	0.314	4.10	<0.224	<0.094	<0.359
1-08-5							
7-06-6							
10-07-6	0.259	0.173	<0.121	0.57	<0.224	<0.094	<0.359
1-08-6							
4-08-6	0.977	1.130	0.274	2.48	<0.224	<0.094	<0.359

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**delta BHC**	**HCB**	**Heptachlor**	**heptachlor epoxide**	**DDMU**	**dieldrin**	**endrin**	**endosulfan I**
7-06-1								
10-06-1	<0.109	0.586	<0.133	0.188	0.703	0.727	<0.202	1.590
10-07-1	<0.109	<0.226	<0.133	<0.160	<0.128	<0.189	<0.202	0.347
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.109	0.251	<0.133	<0.160	0.427	0.855	<0.202	1.660
10-07-2	<0.109	0.290	<0.133	<0.160	<0.128	0.442	<0.202	0.642
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.109	0.714	<0.133	0.306	0.638	4.150	<0.202	2.490
10-07-3	<0.109	0.805	<0.133	0.312	<0.128	2.850	<0.202	4.180
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.109	0.442	<0.133	0.429	0.754	3.820	<0.202	3.450
10-07-4	<0.109	0.363	<0.133	<0.160	0.609	2.460	<0.202	4.050
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.109	0.398	<0.133	0.324	0.221	2.780	<0.202	2.350
10-07-5	<0.109	<0.226	<0.133	0.248	0.340	1.370	<0.202	2.140
1-08-5								
7-06-6								
10-07-6	<0.109	0.308	<0.133	<0.160	1.080	0.419	<0.202	0.577
1-08-6								
4-08-6	<0.109	0.391	<0.133	<0.160	0.639	1.360	<0.202	1.270

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]						
Sample ID	**endosulfan II**	**endosulfan sulfate**	**o,p'-DDD**	**p,p'-DDD**	**o,p'-DDE**	**p,p'-DDE**	**o,p'-DDT**
7-06-1							
10-06-1	0.234	1.410	0.586	1.780	0.410	10.900	<0.155
10-07-1	<0.148	0.427	<0.206	0.696	<0.119	7.780	<0.155
1-08-1							
4-08-1							
7-06-2							
10-06-2	<0.148	2.400	0.490	1.600	0.465	13.900	<0.155
10-07-2	<0.148	1.100	<0.206	0.833	0.164	8.020	<0.155
1-08-2							
4-08-2							
7-06-3							
10-06-3	<0.148	4.340	0.574	1.750	0.421	18.600	<0.155
10-07-3	0.312	3.220	0.865	1.950	0.396	17.400	<0.155
1-08-3							
4-08-3							
7-06-4							
10-06-4	<0.148	4.600	0.832	2.950	0.741	24.600	<0.155
10-07-4	<0.148	4.320	1.060	2.870	0.527	22.600	<0.155
1-08-4							
4-08-4							
7-06-5							
10-06-5	0.648	2.840	0.663	1.560	0.884	13.700	<0.155
10-07-5	<0.148	1.980	0.399	1.460	0.375	8.650	<0.155
1-08-5							
7-06-6							
10-07-6	<0.148	0.481	<0.206	0.752	0.308	13.400	<0.155
1-08-6							
4-08-6	<0.148	1.520	0.300	1.060	0.209	10.600	<0.155

Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]

Sample ID	p,p'-DDT	DDT-Total	mirex	PCB-1242	PCB-1248	PCB-1254	PCB-1260
7-06-1							
10-06-1	0.234	14.60	<0.123	<0.183	<0.183	4.200	6.300
10-07-1	0.168	8.80	<0.123	0.571	1.140	2.570	1.430
1-08-1							
4-08-1							
7-06-2							
10-06-2	0.201	17.10	<0.123	<0.189	<0.189	3.330	7.770
10-07-2	0.303	9.32	<0.123	<0.197	2.520	5.050	0.841
1-08-2							
4-08-2							
7-06-3							
10-06-3	0.663	22.70	<0.123	<0.196	<0.196	4.860	11.300
10-07-3	0.673	21.20	<0.123	<0.195	7.640	26.700	3.820
1-08-3							
4-08-3							
7-06-4							
10-06-4	0.819	30.70	0.130	<0.198	<0.198	8.280	19.300
10-07-4	0.761	28.40	<0.123	<0.188	<0.188	15.400	10.200
1-08-4							
4-08-4							
7-06-5							
10-06-5	0.339	17.40	<0.123	<0.163	<0.163	4.500	10.500
10-07-5	0.290	11.50	<0.123	<0.160	<0.160	5.800	5.800
1-08-5							
7-06-6							
10-07-6	<0.166	15.50	<0.123	0.475	0.950	3.320	<0.155
1-08-6							
4-08-6	<0.166	13.00	<0.123	<0.151	<0.151	3.160	5.880

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB-TOTAL**	**PCB 1**	**PCB 10**	**PCB 103**	**PCB 104**	**PCB 105**	**PCB 106**	**PCB 107**
7-06-1								
10-06-1	10.500	<0.0367	<0.00917	<0.0917	<0.0917	0.124	<0.0917	<0.183
10-07-1	5.710	<0.0398	<0.00994	<0.0994	<0.0994	0.062	<0.0994	<0.199
1-08-1								
4-08-1								
7-06-2								
10-06-2	11.100	<0.0377	<0.00943	<0.0943	<0.0943	0.064	<0.0943	<0.189
10-07-2	8.410	<0.0393	<0.00983	<0.0983	<0.0983	0.123	<0.0983	<0.197
1-08-2								
4-08-2								
7-06-3								
10-06-3	16.200	<0.0392	<0.00980	<0.0980	<0.0980	0.112	<0.0980	<0.196
10-07-3	38.200	<0.039	<0.00976	<0.0976	<0.0976	0.628	<0.0976	<0.195
1-08-3								
4-08-3								
7-06-4								
10-06-4	27.600	<0.0395	<0.00988	<0.0988	<0.0988	0.194	<0.0988	<0.198
10-07-4	25.600	<0.0377	<0.00942	<0.0942	<0.0942	0.355	<0.0942	<0.188
1-08-4								
4-08-4								
7-06-5								
10-06-5	15.000	<0.0326	<0.00815	<0.0815	<0.0815	0.125	<0.0815	<0.163
10-07-5	11.600	<0.0320	<0.00801	<0.0801	<0.0801	0.127	<0.0801	<0.160
1-08-5								
7-06-6								
10-07-6	4.750	<0.0311	<0.00777	<0.0777	<0.0777	0.052	<0.0777	<0.155
1-08-6								
4-08-6	9.040	<0.0301	<0.00753	<0.0753	<0.0753	0.077	<0.0753	<0.151

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 108/124**	**PCB 11**	**PCB 110/115**	**PCB 111**	**PCB 112**	**PCB 114**	**PCB 117**	**PCB 118**
7-06-1								
10-06-1	<0.183	0.613	0.344	<0.183	<0.183	<0.0917	<0.0367	0.367
10-07-1	<0.199	0.676	<0.199	<0.199	<0.199	<0.0994	<0.0398	0.145
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.189	0.635	0.255	<0.189	<0.189	<0.0943	<0.0377	0.177
10-07-2	<0.197	0.810	0.367	<0.197	<0.197	<0.0983	<0.0393	0.333
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.196	0.659	0.434	<0.196	<0.196	<0.0980	<0.0392	0.319
10-07-3	<0.195	0.725	1.950	<0.195	<0.195	<0.0976	<0.0390	1.660
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.198	0.687	0.723	<0.198	<0.198	<0.0988	<0.0395	0.540
10-07-4	<0.188	0.653	1.120	<0.188	<0.188	<0.0942	<0.0377	0.987
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.163	0.571	0.423	<0.163	<0.163	<0.0815	<0.0326	0.337
10-07-5	<0.160	0.652	0.441	<0.160	<0.160	<0.0801	<0.0320	0.347
1-08-5								
7-06-6								
10-07-6	<0.155	0.594	0.188	<0.155	<0.155	<0.0777	<0.0311	0.146
1-08-6								
4-08-6	<0.151	0.527	0.303	<0.151	<0.151	<0.0753	<0.0301	0.235

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 12/13**	**PCB 120**	**PCB 121**	**PCB 122**	**PCB 123**	**PCB 126**	**PCB 127**	**PCB 128/166**
7-06-1								
10-06-1	<0.0183	<0.0917	<0.0917	<0.0917	<0.0917	<0.0917	<0.183	0.106
10-07-1	<0.0199	<0.0994	<0.0994	<0.0994	<0.0994	<0.0994	<0.199	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0189	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.189	<0.0943
10-07-2	<0.0197	<0.0983	<0.0983	<0.0983	<0.0983	<0.0983	<0.197	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0196	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.196	0.115
10-07-3	<0.0195	<0.0976	<0.0976	<0.0976	<0.0976	<0.0976	<0.195	0.446
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0198	<0.0988	<0.0988	<0.0988	<0.0988	<0.0988	<0.198	0.210
10-07-4	<0.0188	<0.0942	<0.0942	<0.0942	<0.0942	<0.0942	<0.188	0.293
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0163	<0.0815	<0.0815	<0.0815	<0.0815	<0.0815	<0.163	0.135
10-07-5	<0.016	<0.0801	<0.0801	<0.0801	<0.0801	<0.0801	<0.160	0.116
1-08-5								
7-06-6								
10-07-6	<0.0155	<0.0777	<0.0777	<0.0777	<0.0777	<0.0777	<0.155	<0.0777
1-08-6								
4-08-6	<0.0151	<0.0753	<0.0753	<0.0753	<0.0753	<0.0753	<0.151	0.077

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]						
Sample ID	**PCB 129/138/163**	**PCB 130**	**PCB 131**	**PCB 132**	**PCB 133**	**PCB 134**	**PCB 135/151**
7-06-1							
10-06-1	0.879	<0.0917	<0.0917	0.1460	<0.0917	<0.0917	0.1640
10-07-1	0.265	<0.0990	<0.0994	<0.099	<0.0994	<0.0994	<0.0990
1-08-1							
4-08-1							
7-06-2							
10-06-2	0.887	<0.0943	<0.0943	0.2170	<0.0943	<0.0943	0.2580
10-07-2	0.650	<0.0983	<0.0983	0.1650	<0.0983	<0.0983	0.1220
1-08-2							
4-08-2							
7-06-3							
10-06-3	1.300	<0.0980	<0.0980	0.3070	<0.0980	<0.0980	0.3430
10-07-3	3.500	0.1850	<0.0976	0.8810	<0.0976	0.1220	0.6710
1-08-3							
4-08-3							
7-06-4							
10-06-4	2.370	0.1030	<0.0988	0.5290	<0.0988	<0.0988	0.5790
10-07-4	2.420	0.1240	<0.0942	0.5620	<0.0942	<0.0942	0.4320
1-08-4							
4-08-4							
7-06-5							
10-06-5	1.360	<0.0815	<0.0815	0.2900	<0.0815	<0.0815	0.2870
10-07-5	1.040	<0.0801	<0.0801	0.2460	<0.0801	<0.0801	0.2120
1-08-5							
7-06-6							
10-07-6	0.345	<0.0777	<0.0777	0.0884	<0.0777	<0.0777	0.0778
1-08-6							
4-08-6	0.769	<0.0753	<0.0753	0.1740	<0.0753	<0.0753	0.1810

Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]

Sample ID	PCB 136	PCB 137	PCB 139/140	PCB 14	PCB 141	PCB 142	PCB 143	PCB 144
7-06-1								
10-06-1	0.0391	<0.183	<0.0917	<0.183	0.0937	<0.183	<0.0917	<0.0917
10-07-1	<0.0398	<0.199	<0.0994	<0.199	0.0448	<0.199	<0.0994	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	0.0724	<0.189	<0.0943	<0.189	0.2190	<0.189	<0.0943	<0.0943
10-07-2	0.0438	<0.197	<0.0983	<0.197	0.1130	<0.197	<0.0983	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	0.0948	<0.196	<0.0980	<0.196	0.3090	<0.196	<0.0980	<0.0980
10-07-3	0.2130	<0.195	<0.0976	<0.195	0.6490	<0.195	<0.0976	0.1090
1-08-3								
4-08-3								
7-06-4								
10-06-4	0.1520	<0.198	<0.0988	<0.198	0.5160	<0.198	<0.0988	<0.0988
10-07-4	0.1250	<0.188	<0.0942	<0.188	0.4500	<0.188	<0.0942	<0.0942
1-08-4								
4-08-4								
7-06-5								
10-06-5	0.0744	<0.163	<0.0815	<0.163	0.2520	<0.163	<0.0815	<0.0815
10-07-5	0.0612	<0.160	<0.0801	<0.160	0.1970	<0.160	<0.0801	<0.0801
1-08-5								
7-06-6								
10-07-6	<0.0311	<0.155	<0.0777	<0.155	0.0582	<0.155	<0.0777	<0.0777
1-08-6								
4-08-6	0.0508	<0.151	<0.0753	<0.151	0.1530	<0.151	<0.0753	<0.0753

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 145**	**PCB 146**	**PCB 147/149**	**PCB 148**	**PCB 15**	**PCB 150**	**PCB 152**	**PCB 153/168**
7-06-1								
10-06-1	<0.183	0.1890	0.4560	<0.183	<0.0917	<0.183	<0.183	0.970
10-07-1	<0.199	<0.0994	0.1590	<0.199	<0.0994	<0.199	<0.199	0.248
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.189	0.1320	0.7050	<0.189	<0.0943	<0.189	<0.189	1.020
10-07-2	<0.197	<0.0983	0.3900	<0.197	<0.0983	<0.197	<0.197	0.571
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.196	0.1820	0.9660	<0.196	<0.0980	<0.196	<0.196	1.440
10-07-3	<0.195	0.4240	2.0900	<0.195	<0.0976	<0.195	<0.195	3.050
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.198	0.3430	1.7000	<0.198	<0.0988	<0.198	<0.198	2.590
10-07-4	<0.188	0.3100	1.4200	<0.188	<0.0942	<0.188	<0.188	2.250
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.163	0.1960	0.8430	<0.163	<0.0815	<0.163	<0.163	1.430
10-07-5	<0.160	0.1380	0.6450	<0.160	<0.0801	<0.160	<0.160	1.000
1-08-5								
7-06-6								
10-07-6	<0.155	<0.0777	0.2210	<0.155	<0.0777	<0.155	<0.155	0.351
1-08-6								
4-08-6	<0.151	0.1100	0.5220	<0.151	<0.0753	<0.151	<0.151	0.810

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 154**	**PCB 155**	**PCB 156/157**	**PCB 158**	**PCB 159**	**PCB 16**	**PCB 160**	**PCB 161**
7-06-1								
10-06-1	<0.0917	<0.183	<0.0917	0.0486	<0.183	0.0420	<0.0917	<0.183
10-07-1	<0.0994	<0.199	<0.0994	<0.0398	<0.199	0.0490	<0.0994	<0.199
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0943	<0.189	<0.0943	0.0734	<0.189	0.0338	<0.0943	<0.189
10-07-2	<0.0983	<0.197	<0.0983	0.0648	<0.197	0.0385	<0.0983	<0.197
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0980	<0.196	<0.098	0.1100	<0.196	0.0458	<0.0980	<0.196
10-07-3	<0.0976	<0.195	0.3780	0.3370	<0.195	0.0459	<0.0976	<0.195
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0988	<0.198	0.1790	0.2070	<0.198	0.0505	<0.0988	<0.198
10-07-4	<0.0942	<0.188	0.2490	0.2270	<0.188	0.0345	<0.0942	<0.188
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0815	<0.163	0.1050	0.1140	<0.163	0.0302	<0.0815	<0.163
10-07-5	<0.0801	<0.160	0.0923	0.0930	<0.160	0.0314	<0.0801	<0.160
1-08-5								
7-06-6								
10-07-6	<0.0777	<0.155	<0.0777	<0.0311	<0.155	0.0285	<0.0777	<0.155
1-08-6								
4-08-6	<0.0753	<0.151	<0.0753	0.0654	<0.151	0.0231	<0.0753	<0.151

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 162**	**PCB 164**	**PCB 165**	**PCB 167**	**PCB 169**	**PCB 17**	**PCB 170**	**PCB 171/173**
7-06-1								
10-06-1	<0.183	<0.0917	<0.183	<0.0917	<0.0917	<0.0367	0.1640	<0.183
10-07-1	<0.199	<0.0994	<0.199	<0.0994	<0.0994	<0.0398	<0.0994	<0.199
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.189	<0.0943	<0.189	<0.0943	<0.0943	<0.0377	0.3460	<0.189
10-07-2	<0.197	<0.0983	<0.197	<0.0983	<0.0983	<0.0393	0.1270	<0.197
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.196	<0.098	<0.196	<0.0980	<0.0980	<0.0392	0.5110	<0.196
10-07-3	<0.195	0.2140	<0.195	0.1380	<0.0976	0.0403	0.9670	<0.195
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.198	0.1500	<0.198	<0.0988	<0.0988	0.0438	0.9400	<0.198
10-07-4	<0.188	0.1460	<0.188	<0.0942	<0.0942	<0.0377	0.7660	<0.188
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.163	0.0862	<0.163	<0.0815	<0.0815	<0.0326	0.4710	<0.163
10-07-5	<0.160	<0.0801	<0.160	<0.0801	<0.0801	<0.0320	0.3030	<0.160
1-08-5								
7-06-6								
10-07-6	<0.155	<0.0777	<0.155	<0.0777	<0.0777	<0.0311	<0.0777	<0.155
1-08-6								
4-08-6	<0.151	<0.0753	<0.151	<0.0753	<0.0753	<0.0301	0.2430	<0.151

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 172**	**PCB 174**	**PCB 175**	**PCB 176**	**PCB 177**	**PCB 178**	**PCB 179**	**PCB 18/30**
7-06-1								
10-06-1	<0.183	0.1340	<0.183	<0.183	0.0979	<0.0917	<0.0917	<0.0917
10-07-1	<0.199	<0.0994	<0.199	<0.199	<0.0994	<0.0994	<0.0994	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.189	0.3680	<0.189	<0.189	0.1710	<0.0943	0.1080	<0.0943
10-07-2	<0.197	0.1190	<0.197	<0.197	<0.0983	<0.0983	<0.0983	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.196	0.5390	<0.196	<0.196	0.2440	<0.098	0.1460	<0.0980
10-07-3	<0.195	0.8950	<0.195	<0.195	0.4350	0.1500	0.2270	<0.0976
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.198	0.9380	<0.198	<0.198	0.5040	0.1800	0.2520	<0.0988
10-07-4	<0.188	0.6710	<0.188	<0.188	0.3830	0.1200	0.1580	<0.0942
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.163	0.4760	<0.163	<0.163	0.2390	0.0967	0.1270	<0.0815
10-07-5	<0.160	0.3110	<0.160	<0.160	0.1590	<0.0801	0.0815	<0.0801
1-08-5								
7-06-6								
10-07-6	<0.155	<0.0777	<0.155	<0.155	<0.0777	<0.0777	<0.0777	<0.0777
1-08-6								
4-08-6	<0.151	0.2580	<0.151	<0.151	0.1230	<0.0753	<0.0753	<0.0753

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 180/193**	**PCB 181**	**PCB 182**	**PCB 183**	**PCB 184**	**PCB 185**	**PCB 186**	**PCB 187**
7-06-1								
10-06-1	0.4440	<0.183	<0.183	<0.183	<0.183	<0.183	<0.183	0.382
10-07-1	0.2220	<0.199	<0.199	<0.199	<0.199	<0.199	<0.199	0.111
1-08-1								
4-08-1								
7-06-2								
10-06-2	0.9810	<0.189	<0.189	0.251	<0.189	<0.189	<0.189	0.470
10-07-2	0.3290	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	0.157
1-08-2								
4-08-2								
7-06-3								
10-06-3	1.4000	<0.196	<0.196	0.348	<0.196	<0.196	<0.196	0.655
10-07-3	2.4200	<0.195	<0.195	0.582	<0.195	<0.195	<0.195	1.020
1-08-3								
4-08-3								
7-06-4								
10-06-4	2.6600	<0.198	<0.198	0.647	<0.198	<0.198	<0.198	1.240
10-07-4	1.9700	<0.188	<0.188	0.476	<0.188	<0.188	<0.188	0.858
1-08-4								
4-08-4								
7-06-5								
10-06-5	1.3200	<0.163	<0.163	0.324	<0.163	<0.163	<0.163	0.670
10-07-5	0.8210	<0.160	<0.160	0.208	<0.160	<0.160	<0.160	0.384
1-08-5								
7-06-6								
10-07-6	0.1800	<0.155	<0.155	<0.155	<0.155	<0.155	<0.155	0.110
1-08-6								
4-08-6	0.6820	<0.151	<0.151	0.173	<0.151	<0.151	<0.151	0.338

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 188**	**PCB 189**	**PCB 19**	**PCB 190**	**PCB 191**	**PCB 192**	**PCB 194**	**PCB 195**
7-06-1								
10-06-1	<0.0917	<0.0917	0.0284	<0.0917	<0.183	<0.183	<0.0917	<0.183
10-07-1	<0.0994	<0.0994	0.0282	<0.0994	<0.199	<0.199	<0.0994	<0.199
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0943	<0.0943	<0.0189	<0.0943	<0.189	<0.189	0.0962	<0.189
10-07-2	<0.0983	<0.0983	<0.0197	<0.0983	<0.197	<0.197	<0.0983	<0.197
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0980	<0.0980	<0.0196	0.1150	<0.196	<0.196	0.1630	<0.196
10-07-3	<0.0976	<0.0976	<0.0195	0.1950	<0.195	<0.195	0.2480	<0.195
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0988	<0.0988	<0.0198	0.2080	<0.198	<0.198	0.2860	<0.198
10-07-4	<0.0942	<0.0942	<0.0188	0.1650	<0.188	<0.188	0.2600	<0.188
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0815	<0.0815	<0.0163	0.1130	<0.163	<0.163	0.1260	<0.163
10-07-5	<0.0801	<0.0801	<0.0160	<0.0801	<0.160	<0.160	0.0883	<0.160
1-08-5								
7-06-6								
10-07-6	<0.0777	<0.0777	<0.0155	<0.0777	<0.155	<0.155	<0.0777	<0.155
1-08-6								
4-08-6	<0.0753	<0.0753	<0.0151	<0.0753	<0.151	<0.151	<0.0753	<0.151

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 196**	**PCB 197**	**PCB 198/199**	**PCB 2**	**PCB 20/28**	**PCB 200**	**PCB 201**	**PCB 202**
7-06-1								
10-06-1	<0.183	<0.183	0.1460	0.0031	0.1240	<0.183	<0.183	<0.183
10-07-1	<0.199	<0.199	<0.0994	0.0034	0.1650	<0.199	<0.199	<0.199
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.189	<0.189	0.1730	0.0029	<0.0943	<0.189	<0.189	<0.189
10-07-2	<0.197	<0.197	<0.0983	0.0047	0.1450	<0.197	<0.197	<0.197
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.196	<0.196	0.2520	0.0036	0.1620	<0.196	<0.196	<0.196
10-07-3	<0.195	<0.195	0.4030	0.0039	0.2630	<0.195	<0.195	<0.195
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.198	<0.198	0.4800	0.0040	0.2080	<0.198	<0.198	<0.198
10-07-4	<0.188	<0.188	0.3580	0.0040	0.1060	<0.188	<0.188	<0.188
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.163	<0.163	0.2740	0.0027	0.0903	<0.163	<0.163	<0.163
10-07-5	<0.160	<0.160	0.1530	0.0031	<0.0801	<0.160	<0.160	<0.160
1-08-5								
7-06-6								
10-07-6	<0.155	<0.155	<0.0777	0.0029	<0.0777	<0.155	<0.155	<0.155
1-08-6								
4-08-6	<0.151	<0.151	0.1250	0.0024	0.0835	<0.151	<0.151	<0.151

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 203**	**PCB 204**	**PCB 205**	**PCB 206**	**PCB 207**	**PCB 208**	**PCB 209**	**PCB 21/33**
7-06-1								
10-06-1	<0.183	<0.183	<0.183	<0.183	<0.183	<0.183	<0.0917	0.0661
10-07-1	<0.199	<0.199	<0.199	<0.199	<0.199	<0.199	<0.0994	0.0727
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.189	<0.189	<0.189	<0.189	<0.189	<0.189	<0.0943	0.0641
10-07-2	<0.197	<0.197	<0.197	<0.197	<0.197	<0.197	<0.0983	0.0591
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.196	<0.196	<0.196	<0.196	<0.196	<0.196	<0.0980	0.0771
10-07-3	0.265	<0.195	<0.195	<0.195	<0.195	<0.195	<0.0976	0.0770
1-08-3								
4-08-3								
7-06-4								
10-06-4	0.323	<0.198	<0.198	<0.198	<0.198	<0.198	<0.0988	0.0873
10-07-4	0.242	<0.188	<0.188	<0.188	<0.188	<0.188	<0.0942	0.0535
1-08-4								
4-08-4								
7-06-5								
10-06-5	0.181	<0.163	<0.163	<0.163	<0.163	<0.163	<0.0815	0.0494
10-07-5	<0.160	<0.160	<0.160	<0.160	<0.160	<0.160	<0.0801	0.0473
1-08-5								
7-06-6								
10-07-6	<0.155	<0.155	<0.155	<0.155	<0.155	<0.155	<0.0777	0.0392
1-08-6								
4-08-6	<0.151	<0.151	<0.151	<0.151	<0.151	<0.151	<0.0753	0.0342

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 22**	**PCB 23**	**PCB 24**	**PCB 25**	**PCB 26/29**	**PCB 27**	**PCB 3**	**PCB 31**
7-06-1								
10-06-1	0.0673	<0.0367	<0.0367	<0.0367	<0.0367	<0.0367	<0.0367	0.121
10-07-1	0.0790	<0.0398	<0.0398	<0.0398	<0.0398	<0.0398	<0.0398	0.136
1-08-1								
4-08-1								
7-06-2								
10-06-2	0.0516	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	0.099
10-07-2	0.0454	<0.0393	<0.0393	<0.0393	<0.0393	<0.0393	<0.0393	0.103
1-08-2								
4-08-2								
7-06-3								
10-06-3	0.0814	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	0.155
10-07-3	0.0952	<0.0390	<0.0390	<0.0390	<0.0390	<0.0390	<0.0390	0.176
1-08-3								
4-08-3								
7-06-4								
10-06-4	0.1120	<0.0395	<0.0395	<0.0395	<0.0395	<0.0395	<0.0395	0.191
10-07-4	0.0487	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	<0.0377	0.095
1-08-4								
4-08-4								
7-06-5								
10-06-5	0.0493	<0.0326	<0.0326	<0.0326	<0.0326	<0.0326	<0.0326	0.093
10-07-5	0.0380	<0.0320	<0.0320	<0.0320	<0.0320	<0.0320	<0.0320	<0.080
1-08-5								
7-06-6								
10-07-6	<0.0311	<0.0311	<0.0311	<0.0311	<0.0311	<0.0311	<0.0311	<0.078
1-08-6								
4-08-6	0.0316	<0.0301	<0.0301	<0.0301	<0.0301	<0.0301	<0.0301	<0.075

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 32**	**PCB 34**	**PCB 35**	**PCB 36**	**PCB 37**	**PCB 38**	**PCB 39**	**PCB 4**
7-06-1								
10-06-1	<0.0367	<0.0367	<0.0367	<0.0367	<0.0917	<0.0367	<0.0367	<0.0917
10-07-1	<0.0398	<0.0398	<0.0398	<0.0398	<0.0994	<0.0398	<0.0398	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0377	<0.0377	<0.0377	<0.0377	<0.0943	<0.0377	<0.0377	<0.0943
10-07-2	<0.0393	<0.0393	<0.0393	<0.0393	<0.0983	<0.0393	<0.0393	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0392	<0.0392	<0.0392	<0.0392	<0.0980	<0.0392	<0.0392	<0.0980
10-07-3	<0.0390	<0.0390	<0.0390	<0.0390	<0.0976	<0.0390	<0.0390	<0.0976
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0395	<0.0395	<0.0395	<0.0395	<0.0988	<0.0395	<0.0395	<0.0988
10-07-4	<0.0377	<0.0377	<0.0377	<0.0377	<0.0942	<0.0377	<0.0377	<0.0942
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0326	<0.0326	<0.0326	<0.0326	<0.0815	<0.0326	<0.0326	<0.0815
10-07-5	<0.0320	<0.0320	<0.0320	<0.0320	<0.0801	<0.0320	<0.0320	<0.0801
1-08-5								
7-06-6								
10-07-6	<0.0311	<0.0311	<0.0311	<0.0311	<0.0777	<0.0311	<0.0311	<0.0777
1-08-6								
4-08-6	<0.0301	<0.0301	<0.0301	<0.0301	<0.0753	<0.0301	<0.0301	<0.0753

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 40/41/70**	**PCB 42**	**PCB 43/73**	**PCB 44/47/65**	**PCB 45/51**	**PCB 46**	**PCB 48**	**PCB 49/69**
7-06-1								
10-06-1	<0.0917	<0.0367	<0.0917	0.1380	<0.0367	<0.0367	<0.0367	0.0922
10-07-1	<0.0994	<0.0398	<0.0994	0.1230	<0.0398	<0.0398	<0.0398	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0943	<0.0377	<0.0943	<0.0943	<0.0377	<0.0377	<0.0377	<0.0943
10-07-2	<0.0983	<0.0393	<0.0983	0.1120	<0.0393	<0.0393	<0.0393	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0980	<0.0392	<0.0980	0.1560	<0.0392	<0.0392	<0.0392	<0.0980
10-07-3	<0.0976	0.0657	<0.0976	0.3480	<0.0390	<0.0390	<0.0390	0.2200
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0988	0.0553	<0.0988	0.2180	<0.0395	<0.0395	<0.0395	0.1460
10-07-4	<0.0942	<0.0377	<0.0942	0.1610	<0.0377	<0.0377	<0.0377	0.1010
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0815	<0.0326	<0.0815	0.1130	<0.0326	<0.0326	<0.0326	<0.0815
10-07-5	<0.0801	<0.0320	<0.0801	0.0920	<0.0320	<0.0320	<0.0320	<0.0801
1-08-5								
7-06-6								
10-07-6	<0.0777	<0.0311	<0.0777	<0.0777	<0.0311	<0.0311	<0.0311	<0.0777
1-08-6								
4-08-6	<0.0753	<0.0301	<0.0753	0.0761	<0.0301	<0.0301	<0.0301	<0.0753

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 5**	**PCB 50/53**	**PCB 52**	**PCB 54**	**PCB 55**	**PCB 56**	**PCB 57**	**PCB 58**
7-06-1								
10-06-1	<0.0917	<0.0367	0.1830	<0.0917	<0.0917	0.0411	<0.0917	<0.0917
10-07-1	<0.0994	<0.0398	0.1520	<0.0994	<0.0994	0.0454	<0.0994	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0943	<0.0377	0.1230	<0.0943	<0.0943	<0.0377	<0.0943	<0.0943
10-07-2	<0.0983	<0.0393	0.1780	<0.0983	<0.0983	<0.0393	<0.0983	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0980	<0.0392	0.2280	<0.0980	<0.0980	0.0580	<0.0980	<0.0980
10-07-3	<0.0976	<0.0390	0.6910	<0.0976	<0.0976	0.1240	<0.0976	<0.0976
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0988	<0.0395	0.2960	<0.0988	<0.0988	0.0955	<0.0988	<0.0988
10-07-4	<0.0942	<0.0377	0.2920	<0.0942	<0.0942	0.0593	<0.0942	<0.0942
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0815	<0.0326	0.1550	<0.0815	<0.0815	0.0413	<0.0815	<0.0815
10-07-5	<0.0801	<0.0320	0.1500	<0.0801	<0.0801	0.0321	<0.0801	<0.0801
1-08-5								
7-06-6								
10-07-6	<0.0777	<0.0311	0.0908	<0.0777	<0.0777	<0.0311	<0.0777	<0.0777
1-08-6								
4-08-6	<0.0753	<0.0301	0.1160	<0.0753	<0.0753	<0.0301	<0.0753	<0.0753

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 59/62/75**	**PCB 6**	**PCB 60**	**PCB 63**	**PCB 64**	**PCB 66**	**PCB 67**	**PCB 68**
7-06-1								
10-06-1	<0.0367	0.0162	<0.0917	<0.0917	0.0552	0.1070	<0.0917	<0.0917
10-07-1	<0.0398	<0.0099	<0.0994	<0.0994	0.0617	0.1290	<0.0994	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0377	0.0116	<0.0943	<0.0943	0.0391	<0.0943	<0.0943	<0.0943
10-07-2	<0.0393	<0.0098	<0.0983	<0.0983	0.0462	<0.0983	<0.0983	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0392	<0.0098	<0.0980	<0.0980	0.0766	0.1180	<0.0980	<0.0980
10-07-3	<0.0390	0.0142	<0.0976	<0.0976	0.1620	0.2960	<0.0976	<0.0976
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0395	<0.0099	<0.0988	<0.0988	0.1200	0.1860	<0.0988	<0.0988
10-07-4	<0.0377	0.0119	<0.0942	<0.0942	0.0760	0.1380	<0.0942	<0.0942
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0326	<0.0082	<0.0815	<0.0815	0.0532	0.0877	<0.0815	<0.0815
10-07-5	<0.0320	0.0120	<0.0801	<0.0801	0.0409	<0.0801	<0.0801	<0.0801
1-08-5								
7-06-6								
10-07-6	<0.0311	0.0118	<0.0777	<0.0777	<0.0311	<0.0777	<0.0777	<0.0777
1-08-6								
4-08-6	<0.0301	<0.0075	<0.0753	<0.0753	0.0337	<0.0753	<0.0753	<0.0753

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**PCB 7**	**PCB 70/61/74/76**	**PCB 72**	**PCB 77**	**PCB 78**	**PCB 79**	**PCB 8**	**PCB 80**
7-06-1								
10-06-1	<0.0917	0.2130	<0.0917	<0.0917	<0.0917	<0.0917	<0.0917	<0.0917
10-07-1	<0.0994	0.2280	<0.0994	<0.0994	<0.0994	<0.0994	<0.0994	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0943	0.1350	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943	<0.0943
10-07-2	<0.0983	0.1910	<0.0983	<0.0983	<0.0983	<0.0983	<0.0983	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0980	0.2460	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980	<0.0980
10-07-3	<0.0976	0.7760	<0.0976	<0.0976	<0.0976	<0.0976	<0.0976	<0.0976
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0988	0.3830	<0.0988	<0.0988	<0.0988	<0.0988	<0.0988	<0.0988
10-07-4	<0.0942	0.3470	<0.0942	<0.0942	<0.0942	<0.0942	<0.0942	<0.0942
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0815	0.1810	<0.0815	<0.0815	<0.0815	<0.0815	<0.0815	<0.0815
10-07-5	<0.0801	0.1620	<0.0801	<0.0801	<0.0801	<0.0801	<0.0801	<0.0801
1-08-5								
7-06-6								
10-07-6	<0.0777	0.0834	<0.0777	<0.0777	<0.0777	<0.0777	<0.0777	<0.0777
1-08-6								
4-08-6	<0.0753	0.1180	<0.0753	<0.0753	<0.0753	<0.0753	<0.0753	<0.0753

Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]

Sample ID	PCB 81	PCB 82	PCB 83/99	PCB 84	PCB 85/116	PCB 86/87/ 97/109/119/125	PCB 88/91	PCB 89
7-06-1								
10-06-1	<0.0917	<0.0917	0.2810	<0.0917	0.0509	0.2070	<0.0917	<0.0917
10-07-1	<0.0994	<0.0994	<0.0994	<0.0994	<0.0398	0.1090	<0.0994	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0943	<0.0943	<0.0943	<0.0943	<0.0377	0.1300	<0.0943	<0.0943
10-07-2	<0.0983	<0.0983	0.1710	<0.0983	0.0462	0.2230	<0.0983	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0980	<0.098	0.1710	<0.098	0.0471	0.2230	<0.0980	<0.0980
10-07-3	<0.0976	0.1360	0.8260	0.2750	0.2360	1.0900	0.1610	<0.0976
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0988	<0.0988	0.2800	<0.0988	0.0801	0.3390	<0.0988	<0.0988
10-07-4	<0.0942	<0.0942	0.4600	0.1400	0.1290	0.5900	<0.0942	<0.0942
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0815	<0.0815	0.1800	<0.0815	0.0492	0.2110	<0.0815	<0.0815
10-07-5	<0.0801	<0.0801	0.1740	<0.0801	0.0517	0.2320	<0.0801	<0.0801
1-08-5								
7-06-6								
10-07-6	<0.0777	<0.0777	0.0944	<0.0777	<0.0311	0.1080	<0.0777	<0.0777
1-08-6								
4-08-6	<0.0753	<0.0753	0.1290	<0.0753	0.0311	0.1550	<0.0753	<0.0753

Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]

Sample ID	PCB 9	PCB 90/101/113	PCB 92	PCB 94	PCB 95	PCB 96	PCB 98/100	PCB 98/102
7-06-1								
10-06-1	<0.0917	0.4280	<0.0917	<0.0917	0.180	<0.0917	<0.0917	<0.0917
10-07-1	<0.0994	<0.1990	<0.0994	<0.0994	0.103	<0.0994	<0.0994	<0.0994
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0943	0.3730	<0.0943	<0.0943	0.185	<0.0943	<0.0943	<0.0943
10-07-2	<0.0983	0.3930	<0.0983	<0.0983	0.200	<0.0983	<0.0983	<0.0983
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0980	0.5510	<0.0980	<0.0980	0.270	<0.0980	<0.0980	<0.0980
10-07-3	<0.0976	1.9800	<0.0976	<0.0976	0.900	<0.0976	<0.0976	<0.0976
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0988	0.8490	<0.0988	<0.0988	0.375	<0.0988	<0.0988	<0.0988
10-07-4	<0.0942	1.1400	<0.0942	<0.0942	0.461	<0.0942	<0.0942	<0.0942
1-08-4								
4-08-4								
7-06-5								
10-06-5	<0.0815	0.4630	<0.0815	<0.0815	0.187	<0.0815	<0.0815	<0.0815
10-07-5	<0.0801	0.4520	<0.0801	<0.0801	0.211	<0.0801	<0.0801	<0.0801
1-08-5								
7-06-6								
10-07-6	<0.0777	0.2160	<0.0777	<0.0777	0.108	<0.0777	<0.0777	<0.0777
1-08-6								
4-08-6	<0.0753	0.3460	<0.0753	<0.0753	0.172	<0.0753	<0.0753	<0.0753

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]				
Sample ID	**pentachloro-anisole**	**chlorpyrifos**	**toxaphene**	**1,2,3,4-Tetrachloro-benzene**	**1,2,4,5-Tetrachloro-benzene**
7-06-1					
10-06-1	0.481	<0.277	<10.5	<0.151	<0.269
10-07-1	0.168	<0.277	<10.5	<0.151	<0.269
1-08-1					
4-08-1					
7-06-2					
10-06-2	0.226	<0.277	<10.5	<0.151	<0.269
10-07-2	<0.152	<0.277	<10.5	<0.151	<0.269
1-08-2					
4-08-2					
7-06-3					
10-06-3	0.982	<0.277	<10.5	<0.151	<0.269
10-07-3	0.865	<0.277	<10.5	<0.151	<0.269
1-08-3					
4-08-3					
7-06-4					
10-06-4	1.050	<0.277	<10.5	<0.151	<0.269
10-07-4	0.386	<0.277	<10.5	<0.151	<0.269
1-08-4					
4-08-4					
7-06-5					
10-06-5	1.370	<0.277	<10.5	<0.151	<0.269
10-07-5	0.314	<0.277	<10.5	<0.151	<0.269
1-08-5					
7-06-6					
10-07-6	0.296	<0.277	<10.5	<0.151	<0.269
1-08-6					
4-08-6	0.261	<0.277	<10.5	<0.151	<0.269

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**Pentachloro-benzene**	**BDE 1**	**BDE 10**	**BDE 100**	**BDE 11**	**BDE 116**	**BDE 118**	**BDE 119**
7-06-1		<0.176	<0.176	6.1	<0.176	<0.186	<0.186	<0.186
10-06-1	2.60							
10-07-1	2.49							
1-08-1								
4-08-1		<0.179	<0.179	1.0	<0.179	<0.190	<0.190	<0.190
7-06-2		<0.177	<0.177	6.8	<0.177	<0.188	<0.188	0.200
10-06-2	2.59							
10-07-2	2.18							
1-08-2								
4-08-2		<0.176	<0.176	3.1	<0.176	<0.186	<0.186	<0.186
7-06-3		<0.179	<0.179	26.9	<0.179	<0.190	<0.190	1.400
10-06-3	2.73							
10-07-3	3.15							
1-08-3								
4-08-3		<0.176	<0.176	8.9	<0.176	<0.186	<0.186	0.300
7-06-4		<0.172	<0.172	44.7	<0.172	<0.182	<0.182	2.000
10-06-4	3.13							
10-07-4	2.86							
1-08-4								
4-08-4		<0.182	<0.182	16.1	<0.182	<0.192	<0.192	0.800
7-06-5		<0.173	<0.173	15.5	<0.173	<0.183	<0.183	0.800
10-06-5	3.79							
10-07-5	2.49							
1-08-5								
7-06-6		<0.167	<0.167	9.1	<0.167	<0.177	<0.177	0.500
10-07-6	3.01							
1-08-6								
4-08-6	3.00	<0.174	<0.174	3.5	<0.174	<0.184	<0.184	<0.184

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**BDE 12**	**BDE 126**	**BDE 13**	**BDE 138**	**BDE 15**	**BDE 153**	**BDE 154**	**BDE 155**
7-06-1	<0.176	<0.186	<0.176	<0.139	<0.176	0.50	1.6	<0.139
10-06-1								
10-07-1								
1-08-1								
4-08-1	<0.179	<0.190	<0.179	0.200	<0.179	0.20	0.4	<0.141
7-06-2	<0.177	<0.188	<0.177	<0.140	<0.177	0.60	1.9	<0.140
10-06-2								
10-07-2								
1-08-2								
4-08-2	<0.176	<0.186	<0.176	<0.138	<0.176	0.40	1.0	<0.138
7-06-3	<0.179	0.400	<0.179	<0.141	0.700	3.30	7.0	<0.141
10-06-3								
10-07-3								
1-08-3								
4-08-3	<0.176	0.200	<0.176	<0.139	<0.176	1.30	2.7	<0.139
7-06-4	<0.172	0.800	<0.172	<0.135	0.800	4.20	12.8	<0.135
10-06-4								
10-07-4								
1-08-4								
4-08-4	<0.182	0.300	<0.182	<0.143	0.200	2.20	4.9	<0.143
7-06-5	<0.173	<0.183	<0.173	<0.136	0.300	1.00	4.2	<0.136
10-06-5								
10-07-5								
1-08-5								
7-06-6	<0.167	<0.177	<0.167	<0.132	0.200	0.70	2.6	<0.132
10-07-6								
1-08-6								
4-08-6	<0.174	<0.184	<0.174	<0.137	<0.174	0.50	1.2	<0.137

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**BDE 166**	**BDE 17**	**BDE 181**	**BDE 183**	**BDE 190**	**BDE 194**	**BDE 195**	**BDE 196**
7-06-1	<0.139	<0.176	<0.129	<0.129	<0.097	<0.097	<0.097	<0.097
10-06-1								
10-07-1								
1-08-1								
4-08-1	<0.141	<0.179	<0.131	0.200	0.500	<0.099	<0.099	<0.099
7-06-2	<0.140	<0.177	<0.130	<0.130	<0.098	<0.098	<0.098	<0.098
10-06-2								
10-07-2								
1-08-2								
4-08-2	<0.138	<0.176	<0.128	0.200	0.400	<0.097	<0.097	<0.097
7-06-3	<0.141	0.600	<0.131	<0.131	<0.099	<0.099	<0.099	<0.099
10-06-3								
10-07-3								
1-08-3								
4-08-3	<0.139	<0.176	<0.129	<0.129	<0.097	<0.097	<0.097	<0.097
7-06-4	<0.135	1.000	<0.126	<0.126	<0.095	<0.095	<0.095	<0.095
10-06-4								
10-07-4								
1-08-4								
4-08-4	<0.143	<0.182	<0.133	0.300	0.200	<0.101	<0.101	<0.101
7-06-5	<0.136	0.300	<0.127	<0.127	<0.096	<0.096	<0.096	<0.096
10-06-5								
10-07-5								
1-08-5								
7-06-6	<0.132	0.200	<0.122	<0.122	<0.092	<0.092	<0.092	<0.092
10-07-6								
1-08-6								
4-08-6	<0.137	<0.174	<0.127	<0.127	<0.096	<0.096	<0.096	<0.096

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**BDE 197**	**BDE 198/ 199/203/200**	**BDE 2**	**BDE 201**	**BDE 202**	**BDE 204**	**BDE 205**	**BDE 206**
7-06-1	<0.097	<0.097	<0.176	<0.097	<0.097	<0.097	0.4	0.600
10-06-1								
10-07-1								
1-08-1								
4-08-1	<0.099	<0.099	<0.179	<0.099	<0.099	<0.099	0.5	0.700
7-06-2	<0.098	<0.098	<0.177	<0.098	<0.098	<0.098	0.5	<0.098
10-06-2								
10-07-2								
1-08-2								
4-08-2	<0.097	<0.097	<0.176	<0.097	<0.097	<0.097	0.5	0.600
7-06-3	<0.099	<0.099	<0.179	<0.099	<0.099	<0.099	0.6	<0.099
10-06-3								
10-07-3								
1-08-3								
4-08-3	<0.097	<0.097	<0.176	<0.097	<0.097	<0.097	0.4	<0.097
7-06-4	<0.095	<0.095	<0.172	<0.095	<0.095	<0.095	0.4	0.400
10-06-4								
10-07-4								
1-08-4								
4-08-4	<0.101	<0.101	<0.182	<0.101	<0.101	<0.101	0.6	0.600
7-06-5	<0.096	<0.096	<0.173	<0.096	<0.096	<0.096	0.5	0.500
10-06-5								
10-07-5								
1-08-5								
7-06-6	<0.092	<0.092	<0.167	<0.092	<0.092	<0.092	0.5	<0.092
10-07-6								
1-08-6								
4-08-6	<0.096	<0.096	<0.174	<0.096	<0.096	<0.096	0.7	<0.096

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]								
Sample ID	**BDE 207**	**BDE 208**	**BDE 209**	**BDE 25**	**BDE 28**	**BDE 3**	**BDE 30**	**BDE 32**	**BDE 33**
7-06-1	0.7	0.400	<1.45	<0.176	2.7	<0.176	<0.176	<0.176	<0.176
10-06-1									
10-07-1									
1-08-1									
4-08-1	0.8	<0.099	<1.47	<0.179	0.3	<0.179	<0.179	<0.179	<0.179
7-06-2	0.7	0.300	<1.46	<0.177	2.2	<0.177	<0.177	<0.177	<0.177
10-06-2									
10-07-2									
1-08-2									
4-08-2	0.8	0.400	<1.44	<0.176	0.9	<0.176	<0.176	<0.176	<0.176
7-06-3	0.6	0.500	<1.47	<0.179	5.1	3.300	<0.179	<0.179	<0.179
10-06-3									
10-07-3									
1-08-3									
4-08-3	0.7	0.500	<1.45	<0.176	1.7	0.600	<0.176	<0.176	<0.176
7-06-4	0.5	0.300	<1.41	<0.172	8.5	1.600	<0.172	<0.172	<0.172
10-06-4									
10-07-4									
1-08-4									
4-08-4	0.7	0.400	<1.49	<0.182	2.5	0.700	<0.182	<0.182	<0.182
7-06-5	0.8	0.400	<1.42	<0.173	3.6	<0.173	<0.173	<0.173	<0.173
10-06-5									
10-07-5									
1-08-5									
7-06-6	0.6	<0.092	<1.37	<0.167	2.1	<0.167	<0.167	<0.167	<0.167
10-07-6									
1-08-6									
4-08-6	0.9	0.600	<1.43	<0.174	0.6	<0.174	<0.174	<0.174	<0.174

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]								
Sample ID	**BDE 35**	**BDE 37**	**BDE 47**	**BDE 49/71**	**BDE 66**	**BDE 7**	**BDE 75**	**BDE 77**	**BDE 8**
7-06-1	<0.176	<0.176	48.70	2.00	<0.112	<0.176	<0.205	0.400	<0.176
10-06-1									
10-07-1									
1-08-1									
4-08-1	<0.179	<0.179	6.00	<0.153	<0.114	<0.179	<0.209	<0.209	<0.179
7-06-2	<0.177	<0.177	50.60	2.10	<0.113	<0.177	<0.207	0.700	<0.177
10-06-2									
10-07-2									
1-08-2									
4-08-2	<0.176	<0.176	22.00	0.90	<0.112	<0.176	<0.205	0.300	<0.176
7-06-3	<0.179	0.200	266.00	5.70	<0.114	<0.179	<0.209	<0.209	<0.179
10-06-3									
10-07-3									
1-08-3									
4-08-3	<0.176	<0.176	75.10	2.00	<0.112	<0.176	<0.205	<0.205	<0.176
7-06-4	<0.172	0.500	385.00	12.50	<0.110	<0.172	<0.200	<0.200	<0.172
10-06-4									
10-07-4									
1-08-4									
4-08-4	<0.182	<0.182	129.00	3.20	<0.116	<0.182	<0.212	0.500	<0.182
7-06-5	<0.173	0.300	127.00	6.50	<0.111	<0.173	0.400	<0.201	<0.173
10-06-5									
10-07-5									
1-08-5									
7-06-6	<0.167	0.500	70.40	4.00	<0.107	<0.167	<0.194	1.000	<0.167
10-07-6									
1-08-6									
4-08-6	<0.174	<0.174	26.60	1.00	<0.111	<0.174	<0.203	<0.203	<0.174

Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]

Sample ID	BDE 85	BDE 99	BDE-TOTAL	n-decane	n-undecane	n-dodecane	n-tridecane
7-06-1	<0.384	<0.186	64.3				
10-06-1							
10-07-1							
1-08-1				199.0	18500.0	22.8	168.000
4-08-1	<0.391	<0.190	11.0				
7-06-2	<0.387	<0.188	66.7				
10-06-2							
10-07-2							
1-08-2				47.9	41.0	32.7	333.000
4-08-2	<0.383	<0.186	31.5				
7-06-3	0.500	<0.190	323.0				
10-06-3							
10-07-3							
1-08-3				66.0	72.5	56.9	912.000
4-08-3	<0.384	<0.186	94.6				
7-06-4	1.100	<0.182	477.0				
10-06-4							
10-07-4							
1-08-4				69.5	93.3	52.6	577.000
4-08-4	0.400	<0.192	164.0				
7-06-5	<0.377	<0.183	162.0				
10-06-5							
10-07-5							
1-08-5							
7-06-6	<0.364	<0.177	92.4				
10-07-6							
1-08-6				90.1	90.8	<9.2	1090.000
4-08-6	<0.380	<0.184	35.7				

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Sample ID	**n-tetradecane**	**n-pentadecane**	**n-hexadecane**	**n-heptadecane**	**n-octadecane**
7-06-1					
10-06-1					
10-07-1					
1-08-1	102.0	3150.0	271.0	2730	2750.000
4-08-1					
7-06-2					
10-06-2					
10-07-2					
1-08-2	132.0	5610.0	337.0	6490	3360.000
4-08-2					
7-06-3					
10-06-3					
10-07-3					
1-08-3	343.0	11200.0	780.0	7660	6920.000
4-08-3					
7-06-4					
10-06-4					
10-07-4					
1-08-4	86.7	6690.0	849.0	4120	4790.000
4-08-4					
7-06-5					
10-06-5					
10-07-5					
1-08-5					
7-06-6					
10-07-6					
1-08-6	137.0	2870.0	517.0	17600	4660.000
4-08-6					

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]				
Sample ID	**n-nonadecane**	**n-eicosane**	**n-heneicosane**	**n-docosane**	**n-tricosane**
7-06-1					
10-06-1					
10-07-1					
1-08-1	219.0	1210.0	70.2	<16.4	10.9
4-08-1					
7-06-2					
10-06-2					
10-07-2					
1-08-2	419.0	<16.5	<17.4	<16.2	6.4
4-08-2					
7-06-3					
10-06-3					
10-07-3					
1-08-3	5320.0	185.0	1450.0	889.0	3.1
4-08-3					
7-06-4					
10-06-4					
10-07-4					
1-08-4	173.0	327.0	103.0	<16.4	< 0.02
4-08-4					
7-06-5					
10-06-5					
10-07-5					
1-08-5					
7-06-6					
10-07-6					
1-08-6	825.0	<16.2	<17.1	<15.9	3.8
4-08-6					

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]				
Sample ID	**n-tetracosane**	**n-pentacosane**	**n-hexacosane**	**n-heptacosane**	**n-octacosane**
7-06-1					
10-06-1					
10-07-1					
1-08-1	562	1230	216	294.0	52.8
4-08-1					
7-06-2					
10-06-2					
10-07-2					
1-08-2	211	327	91	102.0	<14.3
4-08-2					
7-06-3					
10-06-3					
10-07-3					
1-08-3	67	846	312	463.0	188.0
4-08-3					
7-06-4					
10-06-4					
10-07-4					
1-08-4	90	434	545	1210.0	<14.4
4-08-4					
7-06-5					
10-06-5					
10-07-5					
1-08-5					
7-06-6					
10-07-6					
1-08-6	134	353	567	132.0	<14.0
4-08-6					

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]				
Sample ID	**n-nonacosane**	**n-triacontane**	**n-hentriacontane**	**n-dotriacontane**	**n-tritriacontane**
7-06-1					
10-06-1					
10-07-1					
1-08-1	58.700	59.6	111.00	<14.9	<12.7
4-08-1					
7-06-2					
10-06-2					
10-07-2					
1-08-2	<13.2	<14.0	<15.1	<14.8	<12.6
4-08-2					
7-06-3					
10-06-3					
10-07-3					
1-08-3	6880.000	270.0	5850.00	<14.8	<12.6
4-08-3					
7-06-4					
10-06-4					
10-07-4					
1-08-4	8260.000	256.0	<15.2	<14.9	<12.7
4-08-4					
7-06-5					
10-06-5					
10-07-5					
1-08-5					
7-06-6					
10-07-6					
1-08-6	<13.0	<13.8	<14.8	<14.5	<12.3
4-08-6					

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]					
Sample ID	**n-tetratriacontane**	**phytane**	**pristane**	**1,6,7-trimethyl-naphthalene**	**1-methyl-naphthalene**	**1-methyl-phenanthrene**
7-06-1						
10-06-1						
10-07-1						
1-08-1	<14.6	204	235	<0.451	2.6	<0.51
4-08-1						
7-06-2						
10-06-2						
10-07-2						
1-08-2	<14.5	175	132	<0.446	3.7	7.80
4-08-2						
7-06-3						
10-06-3						
10-07-3						
1-08-3	<14.5	362	251	<0.447	3.4	1.80
4-08-3						
7-06-4						
10-06-4						
10-07-4						
1-08-4	<14.6	428	308	<0.450	3.6	<0.51
4-08-4						
7-06-5						
10-06-5						
10-07-5						
1-08-5						
7-06-6						
10-07-6						
1-08-6	<14.2	278	210	<0.438	2.1	4.70
4-08-6						

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]				
Sample ID	**2,6-dimethyl-naphthalene**	**2-methyl-naphthalene**	**acenaphthalene**	**acenaphthene**	**anthracene**
7-06-1					
10-06-1					
10-07-1					
1-08-1	0.70	5.1	0.5	<0.41	0.3
4-08-1					
7-06-2					
10-06-2					
10-07-2					
1-08-2	1.00	6.8	0.4	<0.41	0.3
4-08-2					
7-06-3					
10-06-3					
10-07-3					
1-08-3	1.30	5.9	1.0	0.70	0.4
4-08-3					
7-06-4					
10-06-4					
10-07-4					
1-08-4	1.00	5.7	1.3	0.70	0.5
4-08-4					
7-06-5					
10-06-5					
10-07-5					
1-08-5					
7-06-6					
10-07-6					
1-08-6	<0.64	3.8	0.7	0.50	0.3
4-08-6					

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]					
Sample ID	**benzo(a) anthracene**	**benzo(a) pyrene**	**benzo(b) fluoranthene**	**benzo(e) pyrene**	**benzo(g,h,i) perylene**	**benzo(k) fluoranthene**
7-06-1						
10-06-1						
10-07-1						
1-08-1	<0.378	<0.451	0.80	<0.475	<0.536	<0.414
4-08-1						
7-06-2						
10-06-2						
10-07-2						
1-08-2	<0.374	<0.446	0.40	<0.470	<0.530	<0.410
4-08-2						
7-06-3						
10-06-3						
10-07-3						
1-08-3	<0.374	<0.447	0.70	<0.471	<0.532	<0.411
4-08-3						
7-06-4						
10-06-4						
10-07-4						
1-08-4	<0.377	<0.450	1.30	0.600	<0.535	<0.413
4-08-4						
7-06-5						
10-06-5						
10-07-5						
1-08-5						
7-06-6						
10-07-6						
1-08-6	<0.367	<0.438	<0.32	<0.462	<0.521	<0.403
4-08-6						

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]				
Sample ID	**biphenyl**	**C1-chrysenes**	**C1-dibenzo-thiophenes**	**C1-Fluoranthenes & Pyrenes**	**C1-fluorenes**
7-06-1					
10-06-1					
10-07-1					
1-08-1	1.1	<0.938	<0.682	<1.28	1.700
4-08-1					
7-06-2					
10-06-2					
10-07-2					
1-08-2	1.8	<0.928	<0.675	<1.27	2.600
4-08-2					
7-06-3					
10-06-3					
10-07-3					
1-08-3	5.6	<0.930	3.100	<1.27	<0.821
4-08-3					
7-06-4					
10-06-4					
10-07-4					
1-08-4	2.8	<0.936	4.100	<1.28	<0.826
4-08-4					
7-06-5					
10-06-5					
10-07-5					
1-08-5					
7-06-6					
10-07-6					
1-08-6	1.7	<0.912	1.600	<1.24	<0.806
4-08-6					

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]			
Sample ID	**C1-naphthalenes**	**C1-Phenanthrenes & Anthracenes**	**C2-chrysenes**	**C2-dibenzo-thiophenes**
7-06-1				
10-06-1				
10-07-1				
1-08-1	5.0	<0.597	<0.938	<0.682
4-08-1				
7-06-2				
10-06-2				
10-07-2				
1-08-2	6.8	7.900	<0.928	<0.675
4-08-2				
7-06-3				
10-06-3				
10-07-3				
1-08-3	6.0	2.600	<0.930	<0.677
4-08-3				
7-06-4				
10-06-4				
10-07-4				
1-08-4	6.0	<0.596	<0.936	<0.681
4-08-4				
7-06-5				
10-06-5				
10-07-5				
1-08-5				
7-06-6				
10-07-6				
1-08-6	3.8	5.300	<0.912	<0.664
4-08-6				

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]			
Sample ID	**C2-fluorenes**	**C2-naphthalenes**	**C2-Phenanthrenes & Anthracenes**	**C3-chrysenes**
7-06-1				
10-06-1				
10-07-1				
1-08-1	<0.828	2.3	<0.597	<0.938
4-08-1				
7-06-2				
10-06-2				
10-07-2				
1-08-2	<0.820	3.7	<0.591	<0.928
4-08-2				
7-06-3				
10-06-3				
10-07-3				
1-08-3	<0.821	3.8	<0.592	<0.930
4-08-3				
7-06-4				
10-06-4				
10-07-4				
1-08-4	<0.826	3.6	<0.596	<0.936
4-08-4				
7-06-5				
10-06-5				
10-07-5				
1-08-5				
7-06-6				
10-07-6				
1-08-6	<0.806	2.7	<0.581	<0.912
4-08-6				

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]			
Sample ID	**C3-dibenzo-thiophenes**	**C3-fluorenes**	**C3-naphthalenes**	**C3-Phenanthrenes & Anthracenes**
7-06-1				
10-06-1				
10-07-1				
1-08-1	<0.682	<0.828	<2.00	<0.597
4-08-1				
7-06-2				
10-06-2				
10-07-2				
1-08-2	<0.675	<0.820	<1.98	<0.591
4-08-2				
7-06-3				
10-06-3				
10-07-3				
1-08-3	<0.677	<0.821	2.60	<0.592
4-08-3				
7-06-4				
10-06-4				
10-07-4				
1-08-4	<0.681	<0.826	2.90	<0.596
4-08-4				
7-06-5				
10-06-5				
10-07-5				
1-08-5				
7-06-6				
10-07-6				
1-08-6	<0.664	<0.806	<1.94	<0.581
4-08-6				

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]				
Sample ID	**C4-chrysenes**	**C4-naphthalenes**	**C4-Phenanthrenes & Anthracenes**	**chrysene**	**Dibenz(a,h) anthracene**
7-06-1					
10-06-1					
10-07-1					
1-08-1	<0.938	<2.00	<0.597	0.50	<0.426
4-08-1					
7-06-2					
10-06-2					
10-07-2					
1-08-2	<0.928	<1.98	<0.591	0.50	<0.422
4-08-2					
7-06-3					
10-06-3					
10-07-3					
1-08-3	<0.930	<1.98	<0.592	0.50	<0.423
4-08-3					
7-06-4					
10-06-4					
10-07-4					
1-08-4	<0.936	<1.99	<0.596	0.90	<0.425
4-08-4					
7-06-5					
10-06-5					
10-07-5					
1-08-5					
7-06-6					
10-07-6					
1-08-6	<0.912	<1.94	<0.581	<0.46	<0.415
4-08-6					

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]					
Sample ID	**dibenzo-thiophene**	**fluoranthene**	**fluorene**	**indeno(1,2,3-cd) pyrene**	**naphthalene**	**perylene**
7-06-1						
10-06-1						
10-07-1						
1-08-1	<0.341	1.0	1.2	<0.694	13.0	<0.645
4-08-1						
7-06-2						
10-06-2						
10-07-2						
1-08-2	0.400	1.8	1.5	<0.687	13.9	<0.639
4-08-2						
7-06-3						
10-06-3						
10-07-3						
1-08-3	0.400	1.2	2.2	<0.689	14.8	<0.640
4-08-3						
7-06-4						
10-06-4						
10-07-4						
1-08-4	0.500	2.8	1.9	<0.693	15.4	<0.644
4-08-4						
7-06-5						
10-06-5						
10-07-5						
1-08-5						
7-06-6						
10-07-6						
1-08-6	<0.332	0.5	1.4	<0.675	17.3	<0.628
4-08-6						

Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]

Sample ID	phenanthrene	pyrene	1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-HpCDF	1,2,3,4,7,8,9-HpCDF	1,2,3,4,7,8-HxCDD
7-06-1						
10-06-1			<0.0092	<0.0092	<0.0092	<0.0092
10-07-1			<0.0099	<0.0099	<0.0099	<0.0099
1-08-1	2.9	0.6				
4-08-1						
7-06-2						
10-06-2			<0.0094	<0.0094	<0.0094	<0.0094
10-07-2			<0.0098	<0.0098	<0.0098	<0.0098
1-08-2	4.7	0.8				
4-08-2						
7-06-3						
10-06-3			<0.0098	<0.0098	<0.0098	<0.0098
10-07-3			<0.0098	<0.0098	<0.0098	<0.0098
1-08-3	4.4	0.7				
4-08-3						
7-06-4						
10-06-4			<0.0099	<0.0099	<0.0099	<0.0099
10-07-4			<0.0094	<0.0094	<0.0094	<0.0094
1-08-4	5.0	1.8				
4-08-4						
7-06-5						
10-06-5						
10-07-5						
1-08-5						
7-06-6						
10-07-6						
1-08-6	1.9	<0.4				
4-08-6						

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]					
Sample ID	**1,2,3,4,7,8-HxCDF**	**1,2,3,6,7,8-HxCDD**	**1,2,3,6,7,8-HxCDF**	**1,2,3,7,8,9-HxCDD**	**1,2,3,7,8,9-HxCDF**	**1,2,3,7,8-PeCDD**
7-06-1						
10-06-1	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092
10-07-1	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099
1-08-1						
4-08-1						
7-06-2						
10-06-2	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094
10-07-2	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
1-08-2						
4-08-2						
7-06-3						
10-06-3	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
10-07-3	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098
1-08-3						
4-08-3						
7-06-4						
10-06-4	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099
10-07-4	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094
1-08-4						
4-08-4						
7-06-5						
10-06-5						
10-07-5						
1-08-5						
7-06-6						
10-07-6						
1-08-6						
4-08-6						

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]						
Sample ID	**1,2,3,7,8-PeCDF**	**2,3,4,6,7,8-HxCDF**	**2,3,4,7,8-PeCDF**	**2,3,7,8-TCDD**	**2,3,7,8-TCDF**	**Cl4-PCDD**	**Cl4-PCDF**
7-06-1							
10-06-1	<0.0092	<0.0092	<0.0092	<0.002	<0.002	<0.002	<0.002
10-07-1	<0.0099	<0.0099	<0.0099	<0.002	<0.002	<0.002	<0.002
1-08-1							
4-08-1							
7-06-2							
10-06-2	<0.0094	<0.0094	<0.0094	<0.002	<0.002	<0.002	<0.002
10-07-2	<0.0098	<0.0098	<0.0098	<0.002	<0.002	<0.002	<0.002
1-08-2							
4-08-2							
7-06-3							
10-06-3	<0.0098	<0.0098	<0.0098	<0.002	<0.002	<0.002	<0.002
10-07-3	<0.0098	<0.0098	<0.0098	<0.002	<0.002	<0.002	<0.002
1-08-3							
4-08-3							
7-06-4							
10-06-4	<0.0099	<0.0099	<0.0099	<0.002	<0.002	<0.002	<0.002
10-07-4	<0.0094	<0.0094	<0.0094	<0.002	<0.002	<0.002	<0.002
1-08-4							
4-08-4							
7-06-5							
10-06-5							
10-07-5							
1-08-5							
7-06-6							
10-07-6							
1-08-6							
4-08-6							

	Appendix 3E. Concentrations of organic contaminants in Rio Grande silvery minnow carcasses from all sites expressed as micrograms per kilogram (µg/kg) wet weight. ["Sample ID", Sample identification number, includes month and year sampled and site number; "<", less than laboratory method detection limit (as indicated); blank values indicate no results available; see Table 2 for names and abbreviations; see Table 1 for site number, description, and location]							
Sample ID	**Cl5-PCDD**	**Cl5-PCDF**	**Cl6-PCDD**	**Cl6-PCDF**	**Cl7-PCDD**	**Cl7-PCDF**	**OCDD**	**OCDF**
7-06-1								
10-06-1	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.002	<0.002
10-07-1	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.002	<0.002
1-08-1								
4-08-1								
7-06-2								
10-06-2	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094	<0.002	<0.002
10-07-2	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.002	<0.002
1-08-2								
4-08-2								
7-06-3								
10-06-3	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.002	<0.002
10-07-3	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.0098	<0.002	<0.002
1-08-3								
4-08-3								
7-06-4								
10-06-4	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.0099	<0.002	<0.002
10-07-4	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094	<0.0094	<0.002	<0.002
1-08-4								
4-08-4								
7-06-5								
10-06-5								
10-07-5								
1-08-5								
7-06-6								
10-07-6								
1-08-6								
4-08-6								

Health and Histopathological Evaluation of Rio Grande Silvery Minnow from the Rio Grande, New Mexico

Authors: Diana M. Papoulias[1], Mandy L. Annis[1], Anne Davis[3], Joel D. Lusk[3], Elena Zabotkina[2], Ekatarina Nazarova[2], and Donald E. Tillitt[1]

[1] United States Geological Survey, Columbia Environmental Research Center, 4200 New Haven Road Columbia MO, 65201

[2] Institute for Biology of Inland Waters, Russian Academy of Sciences, Box 25, Borok, Yaroslavl 152742 Russia

[3] United States Fish and Wildlife Service, New Mexico Ecological Services Field Office, 2105 Osuna Road NE, Albuquerque, NM 87113

Corresponding Author: Diana M. Papoulias
E-mail: *dpapoulias@usgs.gov*
Phone: 573-876-1902
Fax: 573-876-1896

Abstract: The decline of the federally endangered Rio Grande silvery minnow (RGSM) is associated with physical and hydrologic changes in the Rio Grande system. Decreasing water quality and contaminants may also be factors. This study, as part of a larger study, was designed to evaluate the health of the RGSM in relation to water quality and other environmental stressors in the Rio Grande. Health indicators including somatic indices, gross observation during necropsy, hematology, and histological observations were used to assess the health of wild RGSM seasonally and at several locations along the middle Rio Grande. Both a temporal and spatial relationship was seen. RGSM collected in the summer tended to be less healthy as indicated by: increased macrophage aggregates and granulomas, lowered liver glycogen, and increased spleen size with fewer red blood cells. Whereas silvery minnows from all sites showed impairment, health indicators such as Health Assessment Index (HAI), Splenosomatic Index (SSI), and percentage of fish with 2 or more pathologies showed an upstream to downstream trend, with sites below Albuquerque being less healthy in general. Our results indicate that the RGSM in the reach of critical habitat between Bernalillo, NM and Bosque del Apache National Wildlife Refuge are experiencing chronic stress as evidenced by a suite of health indicators. Given the results from the bioindicators used in this study and the stressors present, it appears that the stress is likely related to poor water and sediment quality (ammonia, metals, bacteria, and possibly PAHs). These results are in agreement and consistent with the known impacts of urban effluents, stormwater runoff, and agricultural return waters.

Keywords: Rio Grande, Rio Grande silvery minnow, health assessment, histopathology

The endangered Rio Grande silvery minnow (*Hybognathus amarus*), once abundant throughout the Rio Grande and Pecos River, is found almost exclusively in a 286-km section of critical habitat in the middle Rio Grande between the Cochiti and Elephant Butte reservoirs. The Rio Grande silvery minnow has been described by Cowley et al. (2006) as a resilient and adaptable species tolerant of low oxygen conditions. It has been determined that it is a benthic herbivore with diatoms comprising an important component of the diet (Magana 2009). Today in the Rio Grande, it is most often found in no- to low-velocity habitats with silted bottoms (USFWS 2007). As an annual pelagophil, it evolved to spawn in spring when Rio Grande discharge increased from headwater snowmelt and seasonal rain events (USFWS 2007). In the contemporary dammed and channelized Rio Grande, spawning is more likely cued on dam releases, and increased run-off from diversion channel flows (Platania and Altenback 1998). Silvery minnow survival in the wild has been determined to be 13 to 25 months, with many dying after only one spawning (USFWS 2007), yet in captivity the RGSM can live 5 to 8 years (Cowley et al. 2006; K. Buhl, pers. comm.).

The demise of Rio Grande silvery minnow populations has been attributed primarily to physical and hydrological changes of the river system (Alò and Turner 2005). However, consistently poor water quality is also believed to be a factor in the decline of this species to the extent that pollution and disease are identified as listing factors in the silvery minnow recovery plan (USFWS 2007). A health assessment of fishes in the Rio Grande conducted in 1997-1998 generalized that study fish from the lower basin (below El Paso) contained greater concentrations of some contaminants and appeared to be less healthy than those from upper basin sites where the silvery minnow is almost exclusively found today (Schmitt et al. 2005). The Elephant Butte Reservoir site from the health assessment (the only site within the silvery minnow critical habitat reach), was considered more contaminated than the site north of critical habitat near the headwaters and also the El Paso site (Schmitt et al. 2005). Elephant Butte

fish had elevated ethoxyresorufin-o-deethylation (EROD) rates and some fish were rated unhealthy and with poor condition factor (Schmitt et al. 2005). More recently, fish sampled between Albuquerque and Elephant Butte were found with lesions, elevated vitellogenin, and slightly elevated EROD levels (Papoulias, unpublished data). Although limited, the existing fish health data and the known water quality information suggest the Rio Grande silvery minnow population could be unhealthy.

Water quality has deteriorated in the middle Rio Grande and adequate flows to support aquatic ecosystems have declined over the past thirty years (Passell et al. 2004, 2005, 2007). The most recent evaluation of water quality in the Middle Rio Grande indicates that quality is insufficient to support warmwater aquatic life. The State of New Mexico CWA Integrated Report (NMED 2008a) identifies low dissolved oxygen, *E.coli*, elevated ammonia, and possibly some heavy metals as reasons for concern. Probable sources of impairment cited include municipal point (e.g., wastewaters) and non-point sources. Such sources are also known to have a plethora of pharmaceuticals and personal care products (Batt et al. 2008; Brown, 2004; Kolpin et al. 2002). In addition, the Rio Grande is heavily used for irrigation (Jackson et al. 2001). Irrigation return waters can increase conductivity, and contain high concentrations of salts, nutrients and trace elements such as arsenic (Norman and Dilley 2002). These potential sources of contaminants together with low flows increase the likelihood that Rio Grande fishes and other aquatic organisms are exposed to stressful and unhealthy conditions.

Continuous exposure to stressors can impair the health of an organism and require it to divert its energy and biological resources away from growth and reproduction and consequently have population-level effects (Schreck et al. 2001). Under chronically stressful conditions fish are more susceptible to pathogens and toxicants which may result in pre-pathological or pathological conditions (Moberg 2000). During fish culture, evaluating fish health at the biochemical, cell, and tissue levels may allow intervention with therapeutic treatments to avoid losses of animals. Assessment and monitoring of the

health of wild populations of fish provides the fisheries biologist with diagnostic information about habitat quality and may indicate specific environmental stressors (de la Torre et al. 2005; Marchand et al. 2009). Monitoring the health of endangered species, especially during reintroduction, restoration and mitigation efforts, is essential to providing scientific information about the success of recovery efforts.

The present study was part of a larger study to evaluate the health of the Rio Grande silvery minnow (RGSM) throughout its designated critical habitat (Lusk 2007). Studies were designed to provide a means to characterize the health status of wild RGSM in relation to water quality and other environmental stressors in the Middle Rio Grande over multiple years, thus capturing variation across seasons. The study included a fish health assessment using somatic indices and systematic observation of fish tissues and organs during necropsy and through histopathology (Goede and Barton 1990; Schmitt et al. 1999; Schmitt and Dethloff 2000; Smith et al. 2002). Therefore, objectives of this portion of the study were to assess the health of the RGSM seasonally at several locations using somatic indices, hematology, and histopathology.

Methods and Procedures

Six sites (Table 1) within the Middle Rio Grande were sampled during 2006-2007 (Year 1) and 2007-2008 (Year 2). Thirty fish were targeted for collection at each site to provide sufficient material for all analyses of the larger study. Site 1 was above the city of Albuquerque, Site 2 was geographically above Albuquerque but below the city's main municipal storm runoff diversion channel outflow, and Sites 3 – 6 were below Albuquerque. Site 1, the furthest upstream site served as a less impacted reference site and Site 3 is immediately downstream of the Albuquerque wastewater treatment plant discharge and other smaller tributaries. Collection efforts were conducted under stable flow conditions. Fish were held in aerated live wells until processed. Fish health assessments were performed in a laboratory within several hours after capture. All collected fish were individually measured for body

weight and total length, followed by visual determination of sex, examination for external and internal abnormalities, and removal and weighting of spleens. Total body weight and spleen weight were used to calculate a Splenosomatic Index (SSI) for each fish that had a recorded spleen measurement; though some were too small. Somatic indices can reflect the status of organ systems, which may change in size due to environmental stressors (Busacker et al. 1990). A Health Assessment Index (HAI) was also calculated as a general indicator of fish health (Adams 1990; Carlander 1969, 1977). Developed and revised by Goede (1988, 1989, 1996), HAI utilizes observations of gross external and internal pathological disorders (see Schmitt and Dethloff 2000 for a complete description). On a sub-sample of RGSM collected liver, spleen, kidney, gonad, and gill were dissected for histopathology.

Opercula of the collected fish were observed for shortening on one or both opercula. For analysis, shortened opercula were assessed as present/absent rather than the degree of shortening to assist in reducing the subjective nature of opercula observation. As part of this study we also evaluated the incidence of shortened opercula in archived RGSM samples from the University of New Mexico, Museum of Southwestern Biology (Accession Number ACC2006-VII:31). Archives contain preserved RGSM from 1938 to 2001. The following cataloged collections of RGSM at the Museum of Southwestern Biology were examined for shortened opercula: 1119, 1120, 1125, 1130, 1151, 1155, 1162, 1171, 3961, 4338, 4384, 5730, 5934, 11589, 13472, 20396, 22671, 30032, 30246, 39103, 45271, 43314, 44627, 48229, and 49969. Right and left opercula of 30 fish from each year for 25 years between 1938 and 2001 were randomly selected, measured for weight and length, and observed for degree of operculum shortening. The degree was noted as slight or severe. Slight shortening is described as visible shortening with flap obviously not covering entire gill with a minimal amount of gill exposed. Severe shortening is described as extreme shortening with the gill exposed and visible to the un-aided eye.

Histopathology

Tissues for histopathology were collected from three individuals at each of the six sites during Year 1 and six individuals at each of the six sites Year 2. Liver, kidney, spleen, gonad, and gill were removed and placed in 10% neutral buffered formalin (NBF). All tissues from an individual were mixed in one vial during Year 1 and this resulted in loss of some of the very small organs (i.e., spleen, kidney, and testes). Therefore, in Year 2, we removed the entire viscera to one vial and placed kidneys and gonads in separate vials. A limited number of opercula were also processed for histology or cleared for staining of bone and cartilage following Kelly and Bryden (1983) for in-depth examination of shortening of the distal margin. Processing for histology consisted of rinsing tissues in two changes of 10 mM HEPES buffer (pH 7.4) and dehydration by immersion in graded aqueous ethanol solutions ranging from 50% to 100%. Gill and opercula were decalicified in Surgipath® Decalcifier II solution prior to processing. This was followed by immersion in xylene and subsequent infiltration with paraffin. The paraffin-embedded samples were sectioned at 5 μm, mounted onto silanized slides, and stored at room temperature until staining. In preparation for histochemical staining, tissue sections were de-waxed with xylene and then rehydrated to water by immersion in graded solutions containing decreasing concentrations of ethanol from 100% to 0%. Tissue samples were stained following the general nuclear stain procedure for hematoxylin and eosin (Luna 1968).

Macrophage aggregates (MAs) are part of the fish's defensive system against foreign matter or infectious disease (Wolke et al. 1985) and have been used as biomarkers of contaminant exposure. Numbers and areas of MAs were assessed on three sections of spleen tissue from each fish and reported per area of spleen. MAs were enumerated on sections of spleen stained with hematoxylin and eosin on an inverted Nikon Diaphot using a 10x objective and Optimas® image analysis software. MAs in some samples were too small to determine area and were only counted.

Light microscopy was used to qualitatively evaluate the tissues for lesions and pathologies. We used RGSM collected from Dexter National Fish Hatchery and Technology Center (Dexter, NM) for a reference set of healthy organs/tissues for qualitative comparisons. Gonads were also assigned sex and stage of reproductive maturity (see Blazer 2002 for description).

Haematology

Analysis of the ratio of leukocytes was made on touch smears of head and trunk kidneys, spleen, and liver for 2 sites in one season. August 8, 2008 six RGSM were caught at Site 1 (relative reference location) and at Site 3. Fish were pithed and organs removed. Each freshly dissected organ was blotted three times onto uncoated microscope slides then preserved by immersion in 95% ethanol for 20 minutes. After air-drying, the slides were later stained using Romanovsky–Giemza stain. Using light microscopy, eight leukocyte types were identified and enumerated according to the classification of Ivanova (1983). Not less than 200 cells were evaluated on each slide.

Statistics

Statistics were computed on the full set of sampled fish for mean length, weight, opercula shortening, SSI and HAI. Weight and length differences between years were tested as well as weight, length, and index differences in combined years to determine site- and month-specific differences. Age and sex can influence size of spleen, therefore length as a surrogate of age was tested for covariance with SSI and sex was included as a second factor with station in an analysis of variance. We tested for site- and month-specific differences in the percent of fish with shortened opercula for each sampling year. A t-test was used to determine if archived fish with shortened opercula differed in size from fish without shortened opercula. Site-specific percent occurrence of the subset of total fish examined for tissue condition, pathology, or fish's sex (determined with histology) was calculated for each sampling

date and means for sites or months were tested for differences. Data were combined for the two years for testing of seasonal and site differences for these measures because few fish were evaluated at each site in a given year. Data were analyzed using SAS v.9.2 software (SAS Institute Inc., Cary, NC, USA). All data were tested for homogeneity of variances (Levene's test) and normality (Shapiro-Wilk statistic). Percentage data were arcsin transformed and SSI data were log-transformed. A general linear model with LSMEANS as the post-hoc comparison test was used to test for site and month differences unless data did not meet assumptions for parametric tests after transformations; then we used the non-parametric Wilcoxon signed-ranks. Macrophage aggregate count and area measures were tested for covariance with estimated fish age prior to analysis of variance among sites. Age was estimated by converting total length to standard length using the formula (SL=1.0182(TL)-10.909) followed by estimation of age from the formula cited by Cowley et al. (2006). The Mantel-Haenszel Chi-Square for trends was used to evaluate trend in percent females upstream to downstream. Leukocytes were analyzed using a t-test and reported as percentage of 200 cells. There are no reported normal health indicators for silvery minnow. Therefore for these studies, fish from Site 1 were considered relative normal and individuals captured at other sites were compared against results from Site 1.

Results

A total of 1,070 RGSM were observed during two years of study. Overall, RGSM collected in Year 1 were larger (70 ± 11 mm Total Length (TL) n = 511, 3.1 ± 1.5 g, n = 516) than those collected in Year 2 (59 ± 11 mm TL n = 554, 1.9 ± 1.0 g, n = 553; $p < 0.001$). There were also significant differences in weights and lengths among months ($p<0.012$) and sites ($p<0.0001$). RGSM were smallest at Sites 1 and 2 and largest in October (Figures 1 and 2). There was no influence of sex on the site- or

month-specific weights or lengths. Neither mean length, mean weight, nor length-weight regression curves were different between males and females (data not shown).

Sex did not influence the effect of site or month on mean SSI values. Length did covary with SSI therefore all SSI analyses were adjusted for length. SSIs were greatest in July and October, and smallest in January and April ($p = 0.0001$). Mean SSIs for Sites 1,2, and 3 were larger than for Sites 4 and 5. Site 1 mean SSI was also larger than Site 6 mean SSI ($p=0.02$) (Figure 3). There was also a significant interaction between site and month ($p<0.0001$). Mean SSIs of fish within Sites 4, 5, and 6 did not significantly differ during any month and in January there were no differences in SSI among sites. Mean SSIs for fish collected at Sites 1 and 2 were greatest in July compared to other months and during July and October at Site 3. At Sites 4 and 5 mean SSIs in October were larger than those in July at these sites. In April, fish at Sites 1 and 2 had similar SSIs but mean site values were larger than for Site 3. In July, mean SSIs of fish at Sites 4 and 5 were smaller than mean SSIs for fish at Sites 1, 2, and 3. In October, mean SSI for fish at Site 3 was larger than that for fish at any other site. At Site 3, Year 2, a single fish with an SSI of 2.89, was recorded.

Rio Grande silvery minnow HAI scores were significantly greater in July compared to other months ($p = 0.05$) for both years combined. Site 3 HAI score was greater than Sites 1 and Site 2 ($p < 0.0491$). Mean HAI scores tended to increase downstream to Site 3 and remain similarly elevated downstream to Site 6 (Figure 4).

Pathology

A total of 573 tissue samples of kidney, liver, spleen, gonad, and gill from a total of 147 fish were submitted for histology from July 2006 to July 2008. As a result of a malfunction with the tissue processing equipment, most of the April 2007 samples and all gill samples from October 2006, January 2007, and April 2007 were damaged and unusable. Few types of histological abnormalities were seen

in gonad, spleen, and liver. A greater percentage of fish had kidney and gill abnormalities. For all tissues, the total percent of fish with a pathological lesion or those with two or more lesions tended to increase from upstream sites to downstream sites.

Gill

Gross gill abnormalities (discoloration, fraying, clubbing, and parasites) were observed in 35% of fish examined during Year 1 and 50% Year 2. Of the 80 gills examined, only three had no lesions and most, irrespective of site, had multiple lesions. Clubbing, curling, and swelling of secondary lamellae were the most common lesions observed. Fused lamellae, lifting of the epithelium and the lamellae, and embolism were also seen.

Opercula

During Year 1, 50% of fish observed had shortened opercula. Year 2, that percentage increased to 89%. Shortened opercula were the most prevalent gross abnormality. During Year 1, this anomaly was overwhelmingly bilateral (83.2 %) and a unilateral abnormality affected only 2.9% right side and 3.1% left side. Year 2 had a lower bilateral frequency of 40.9% with only frequencies of 3.7% right side and 5.8% left side. Year 1 RGSM had increased overall occurrence during April (68%) and July (65%) and reduced overall occurrence during January (38%). Contradictory to Year 1, Year 2 fish had extremely elevated observations of shortened opercula during January (98%); July and October were slightly lower, 86% and 79%, respectively. During Year 1, downstream Site 5 had the highest frequency of opercula shortening for all months sampled. During Year 2, all six sites had high occurrence (> 70%) of shortened opercula. Historic incidence of shortened opercula similarly indicates year-to-year variation, but an increasing temporal trend is evident (Table 2). Archived silvery minnow

with at least one shortened operculum were shorter in total length (p=0.0115, n=249, mean=55.7 mm, range: 21.0-95.0 mm) than RGSM without a shortened operculum (n=390, mean=58.7 mm, range: 22.0-96.0 mm) but there was no difference in weight between these two groups (p=0.6690). Opercula of cleared and stained fish showed differences between a second or third generation RGSM from Dexter, NM with no or only slightly shortened opercula and a wild fish with shortened opercula from Site 2. The distal margin of the opercula in the Dexter, NM RGSM were thicker and appeared to have a higher bone density than the Site 2 RGSM.

Gonads

Overall, 71 of 123 fish analyzed (58%) were females. The percentage of females did not significantly differ between years ($p = 0.3284$) among sites ($p = 0.0931$) or months ($p = 0.3974$), however there was a significant ($p < 0.0001$) trend of progressively more females in samples at sites from upstream to downstream (Figure 5). Based on histological staging of gonads, RGSM appear to be group synchronous batch spawners. Spawning occurred at some time between April and July as we found most females were at Stage IV in April and spent in July. Thirteen percent of the fish, both sexes, had large fat deposits associated with the gonad; occurrence of fat was not seemingly related to month but the majority of these fish were found in Year 1 collections. All but four ovaries (from Sites 2 and 5) with atretic oocytes were also spent. Parasites were only occasionally seen. One testis collected 6 July 2007 had two ovoid structures associated with it that could have been cross-sections of cestodes, cortical alveolar oocytes, or something else (e.g., cross- tissue contamination). A positive identification was not possible.

Liver

Gross liver abnormalites were high for both years. Forty-five percent of fish Year 1 and 59% Year 2 were reported to be discolored or as having a 'mushy' texture. A subset of 147 livers was processed for histopathology. The majority of these livers were low or moderate in glycogen content. There were no site differences but overall, livers of fish caught in July were low in glycogen ($p = 0.0294$). Pathologies were overall low (edema, high fat content, pigments associated with macrophages, granulomas, inflammation, parasites). There was no significant difference among sites or months in incidence of fish having one or more pathologies (Figure 6). Parasites were uncommon all years, but granulomas and MAs were prevalent in July, 2008; hemosiderin and melanin pigments were more common in livers from Year 2 samples. July of Year 1, 53% of the samples had fatty deposits outside of the liver and also fat vacuoles inside of hepatocytes. Sites 2, 3, and 4 all had fish with granulomas but they were most common in Sites 3 and 4 fish; only Site 2 fish also had macrophage aggregates. Nine samples had oocytes associated with the liver. One of these was definitely due to carryover contamination during tissue processing, but from October 2007 forward ovaries were isolated from livers for processing, so this does not explain all observations. The others may be ectopic oocytes, but it is difficult to say with certainty. In some cases, it appears as if the liver tissue partially surrounded the oocytes or they were embedded in fat that was attached to the outside of the liver. It is possible that ovarian tissue had adhered to the outside of the liver and was included in the dissected liver sample.

Spleen

Gross spleen abnormalites (nodules, granular texture, size) decreased from 24% in Year 1 to 11% during Year 2. A subset of 125 spleens was processed for histopathology. In the majority of fish, blood content was either low or moderate and there were no significant site differences whether or not we controlled for month. A greater percentage of RGSM spleens collected in January were perfused

with blood than the other months (p = 0.0092). The incidence of finding fish with a pathological condition (parasite, granuloma, fat, MA) in the spleen was not significantly different among sites (Figure 6). However, Year 1 fish were notably different from Year 2 fish because of the presence of fish with fatty spleens, particularly in July. Twelve percent of the total fish inspected had sparsely pigmented granulomas that may have been caused by bacterial or fungal infection. All granulomas occurred in fish sampled in Year 2. Granulomas were found in fish from all sites, but Site 6 had the most fish with granulomas and Site 5 the fewest. Only one parasite (unidentified) was observed. Macrophage aggregates were most numerous at Site 3 and least abundant at Site 1 but these results were highly variable within a site and not significant among sites (p = 0.1062, no site*month interactions; Table 3). Macrophage aggregates (count and area) were more numerous in July and least in April (p = 0.005), no month*site interactions; data not shown). Estimated age was not a significant covariate with either count or area (n=115, R^2=-0.09, p=0.35 and n=72, R^2=0.04, p=0.76, respectively).

Kidney

Gross kidney abnormalities (size, color, texture, and parasites) were observed in 16% of fish examined during Year 1, increasing slightly to 24% during Year 2. A subset of 117 kidneys was processed for histopathology (pigment, tubular degeneration, regeneration, fat, parasites, and granulomas). In contrast to Year 2, nearly all samples from Year 1 had hemosiderin pigment or melanin or both and a high percentage of fish (36%) had fat associated with the kidneys either surrounding it or infiltrated in the interstitium. Two fish from Year 1 appeared to have ectopic oocytes in the kidney parenchyma, but similarly to the liver this could not be definitively concluded. Several fish (11 total; all sites represented) were collected with kidneys containing many sparsely pigmented granulomas that may have been caused by bacterial or fungal infection. Another fish, collected 6 October 2006 from Site 3, showed production of an inordinate number of segmented leukocytes in the hematopoietic tissue

suggesting that the fish may have had a systemic or other infection. The incidence of finding fish with a pathological condition in the kidney was not significantly different among sites (Figure 6). Ninety-two percent of the fish collected had degenerating kidney tubules (Figure 7). Some regenerating tubules were observed in Year 2 fish.

Leukocytes

Changes in proportion of leucocytes were observable in Site 3 fish relative to Site 1 fish for all investigated organs (Table 4). Hemocytoblasts were reduced in head kidney, but plasma cells and segmented neutrophils were increased. Plasma cells and segmented neutrophils were also increased in trunk kidney but stab neutrophils were reduced. Lymphocytes were fewer in spleen but macrophages and promyelocytes (immature granulocytes) increased. In the liver, lymphocytes increased but neutrophils decreased.

Discussion

Health assessments have proven useful in evaluating an individual fish's integrated response to environmental stressors. In our study, collection of a small number of fish during different seasons for an extended time assured that a range of biotic and abiotic stressors could manifest through our suite of biological health indicators and also allowed us to more easily discern trends. Health of RGSM surveyed over a period of two years was variable but consistently impaired spatially and temporally. The results showed that RGSM health deteriorated from upstream to downstream within the designated critical habitat and that summer and the months with low river discharge were the most stressful for these fish.

Some of the health effects observed in the RGSM may be explained by the suite of environmental stressors present in the waters of the RGSM critical habitat. *E. coli* is rarely a fish

pathogen. It serves as an indicator of the relative level of organic pollution or mammalian fecal waste. The elevated *E. coli* in the Rio Grande reflects the influence that wastewater treatment plants and residential stormwater run-off have on its water quality. Fish chronically exposed to wastewater effluents experience reproductive, endocrine, immune, genotoxic, and nephrotoxic effects (Liney et al. 2005). Chemicals in these waters include polycyclic aromatic hydrocarbons, metals, natural hormones, and pharmaceuticals, all measured in the Rio Grande and many at levels of concern.

The water quality data collected by NMED (2009) and SWQB (2009) during the same period and at the sites sampled in the present study generally support a trend of poorer water quality (i.e., elevated biological oxygen demand (BOD), total phosphorus, and *E. coli*) from upstream to downstream, during summer months, and low flow periods (Table 5). These same studies also document potentially toxic levels of contaminants (primarily metals) in water, sediment, and fish tissue at many of our study sites. Temperature, pH, and ammonia in the NMED (2009) study rarely exceeded water quality criteria, however, reduction of dissolved oxygen at some locations was of concern. Dissolved concentrations of aluminum and copper exceeded water quality standards for chronic and acute effects at most sites (NMED 2009; Table 5). Total concentrations of aluminum, copper, iron, arsenic, cyanide, and fluoride in water, sediments, or both at some sites and in some seasons (NMED 2009; Table 5) were at potentially toxic levels and among elements identified in a 2005 Rio Grande risk assessment as likely contributing to overall environmental stress to RGSM (Marcus et al. 2005). Several sediment PAHs were measured at levels above screening criteria but only at Sites 2 and 3 (NMED 2009). Fish tissues were elevated for zinc at all sites and for total DDT in fish collected between Sites 1 and 2 and between Sites 2 and 3 (NMED 2009). Analysis for pharmaceuticals and personal care products (PPCP) of effluents from seven wastewater treatment plants within our study site found 36 of 54 PPCP analytes (NMED 2009). Total suspended solids (TSS) were high at many sites

and seasonally (Table 5). Although the Rio Grande has historically had periods of both high and low turbidity (Julien et al 2005; Cowley et al. 2009), the contemporary composition of suspended solids may serve as sinks for pathogens and abiotic contaminants by adsorbing to particle surfaces.

Health Indicators

Organo-somatic indices are simple and inexpensive to perform. Although simplistic compared to other biomarkers, health indices and gross observations can be used as general indicators of fish health and support results of biomarkers and environmental contaminant analyses. Indices have been used extensively in fish health and population assessments as indicators of well being of individual organisms (Adams 1990; Goede and Barton 1990). For this study, only the SSI and HAI were evaluated and utilized as general indicators of fish health. Hepatosomatic index was not included because cyprinids have a dispersed liver and weight measurements prove to be inaccurate if not impossible. Furthermore, gonadosomatic index was not included in this study because of the difficulty in dissescting out and accurately weighing the gonad tissue in such a small fish.

The quantitative HAI utilizes a comprehensive necropsy based fish health assessment of observations of gross external and internal pathological disorders (Adams 1990; Adams et al. 1993; Goede 1988, 1989, 1996). HAI can be a valuable method for estimating cumulative stress, and documenting lesions or abnormalities that have advanced to the point of being grossly visible, and those the public tends to be most concerned about (Adams 1990; Adams et al. 1992; Schmitt and Dethloff 2000). Studies have indicated that fish in severely polluted areas exhibit a higher frequency of gross lesions than those in similar, less polluted areas (Schmitt and Dethloff 2000). Relative HAI results showed that fish from Site 1 had the lowest mean HAI score and that HAI scores were highest in July consistent with SSI results and liver and spleen pathological observations.

The SSI has been incorporated into other monitoring protocols evaluating the Mississippi River (Schmitt 2002), Columbia River (Hinck et al. 2004a), Yukon River (Hinck et al. 2004b), Colorado River (Hinck et al. 2006) as well as the Rio Grande Basin (Schmitt (Ed.) 2004 and Schmitt et al. 2005) and was used in the present study. The SSI can be a useful diagnostic because it is both a hematopoietic and an immune system organ and abnormalities could exhibit effects at the whole-organism level (Anderson 1990; Schmitt and Dethloff 2000). Acute or nonspecific stressors such as temperature changes, hypoxia, extreme exercise, and exposure to chemical contaminants may cause the spleen to contract and reduce in size. An enlarged spleen may suggest disease or an immune system disorder due to increased hypertrophy or proliferation of leukocytes (Anderson 1990; Goede and Barton 1990). Chemicals identified as of concern in the Rio Grande can affect the fish immune system (Harris and Bird 2000; Reynaud and Deschaux 2006; Zelikoff, 1993). The differences in leukocyte profiles and increase in macrophage aggregates, between fish from the reference site (Site 1) and the sites below it support an immunotoxic effect of one or a mixture of the chemicals measured.

In general, SSI was low (< 2%) and variable among sites. SSI values increased to their highest levels in July at Sites 1, 2, and 6 then decreased back to January and April levels in October. At Site 3 highest levels were also in July but no return to low levels in October was observed. Mean SSI seasonal pattern and magnitude was more similar among Sites 1, 2, and 6 and among Sites 4 and 5. The SSI results were generally consistent with the observed histopathology. January SSI values were low and more similar among sites and this is when the majority of spleens from all sites were seen to be perfused with blood. When fish are calm, erythrocyte count in the spleen is high but when a fish is stressed red bloods cells are released from the spleen into the blood (Takashima and Hibiya 1995). July SSI was highest at Site 3 and this site in July also was notable for fat associated with the spleen and increased macrophage aggregates.

Macrophage aggregates have been suggested as possible bioindicators of environmental chemical exposure (Wolke 1992). Macrophage aggregates function in fish to protect the body by 1) recycling iron, 2) storing, destroying, or detoxifying effete material, and 3) through a role in immune response (Aguis 1985). A large number of studies have noted increases in macrophage aggregates in fish from polluted waters (reviewed in Schmitt and Dethloff 2000). The formation of MAs may also be influenced by age, diet, temperature and other factors, therefore cause and effect relationships may be difficult to establish (Blazer et al.1987). Blazer et al. (1987) found that stressed fish had 9 MAs per mm^2 liver tissue while healthy fish had 4 MAs per mm^2. Most RGSM in this study had MAs greater than or close to 9 MAs excepting Site 1, which had an average of 3 macrophage aggregates. Although we did not age the fish, length, as an indirect measure of age, was not associated with number or area. Hemosiderin, lipofuscin/ceroid, and melanin are pigments often found within macrophage aggregates. While the pigments themselves do not damage tissue, they may indicate the health of an organism or its exposure to toxic compounds. Hemosiderin is a by-product of hemoglobin breakdown and lipofuscin and ceroid are considered to be lipid pigments produced by the peroxidation of unsaturated fatty acids. Melanin is also found in some macrophage aggregates but more often it is found outside of them. It may be deposited after destruction of melanocytes or melanophores. It is thought that melanin may be important as a bactericide or to decrease the damage caused by the production of free radicals by phagocytic cells (Ellis 1981). These pigments were observed in all the types of tissues analyzed, however hemosiderin/lipofuscin/ceroid were most prevalent in kidney and spleen and melanin in gonads.

Overall, kidneys presented with the greatest diversity of lesions in the greatest number of individuals examined. Kidney histopathologies were consistent with chronic inflammation. Ubiquitous inflammation in kidneys of RGSM cannot be associated with any single stressor and is most likely a

general response to poor water quality (Carmago and Martinez 2007). The change in ratio of leucocytes in the kidneys results from the increased number of plasma cells relative to stab neutrophils in Site 3, suggests a pronounced antibody-mediated response to environmental stress or a reaction to diseases caused by weakening of an organism. The increase in stab neutrophils, is an indicator of inflammatory processes in the organism. The significant decrease of hemocytoblasts shows the exhaustion of the leukopoiesis. There is a repartition of cells due to the decrease of lymphocytes and an increase of macrophages in the spleen. It also suggests inflammatory events in the organism and is indirectly confirmed by an increase of promyelocytes. At the same time an increase in mature forms of granulocytes was not observed indicating early cell death and their following utilization by macrophages. A rather unusual reaction in the liver was observed i.e. lymphocytes and immature form of neutrophils (promyelocytes and myelocytes) increased, but the mature neutrophils decreased. It is possible this is due to lymphoid infiltration of the organ caused by development of autoimmune disease. Similar changes in leukocyte ratios were observed in organs (head and trunk kidney, spleen, but not liver) of common bream (*Abramis brama* L.) from variably polluted areas of Rybinsk reservoir (Lapirova and Zabotkina. in press).

Bacterial pathogens tend to be high in wastewater-dominated streams and this may be reflected by the types of gill lesions observed (Seeley and Weeks-Perkins 1991). The gills are critical sites for ion regulation and respiration. The most common gill lesions (discoloration, fraying, clubbing, curling) were consistent with parasite and bacterial infestations. However, fused lamellae and lifting of the epithelium on the lamellae were also seen. Such lesions have been observed in fish exposed to ammonia concentrations of $\geq$ 0.8 mg/L and chronic exposures to copper (Muhvich et al. 1995; Piya et al. 2009; Spencer et al. 2008). Although all NMED (2009) reported ammonia concentrations were well below this level, Buhl (2002) showed that ammonia and copper together at concentrations found in the

Rio Grande could result in chronic toxicity to Rio Grande silvery minnow. Moreover, tilapia exposed to copper at concentrations found at our Rio Grande sites, exhibited similar gill pathologies (Figueiredo-Fernandes et al. 2007).

Hepatocyte appearance can vary depending on season, nutritional status, age, sex, and pollutant exposure (Ferguson 1989). Hepatic glycogen was most often low in all RGSM which may be related to environmental stress or the end of the spawning season, reduced food resources, or a combination of these stressors. Glycogen is used as an immediate energy source when fish are under acute stress. Reduced glycogen may make them lethargic and less able to respond to predators (Smith 1982). Depressed liver glycogen, particularly in summer months, has been related to exposure to heavy metals (Heath 1995; Levesque et al. 2002: Palermo et al. 2008). Aluminum and copper were the only heavy metals that exceeded NM water quality acute or chronic criteria for dissolved levels at site-specific hardness concentrations. However, total water concentrations of copper, aluminum, and iron were highly elevated across sites (Table 5).

Shortened operculum was the gross abnormality observed at the highest frequency. The anomaly has been present since at least 1938. Abnormalities of the opercular complex affect both wild and cultured fish populations. Possible causative factors include, but are not limited to, vitamin-C deficiency or diet (Dabrowski et al. 1988; Grady et al. 1992b; Koumoundouros et al. 1997), exposure to contaminants (Grady et al. 1992b; Lindesjöö et al. 1994; Olsson et al. 1999), turbulence (Al-Harbi 2001; Backiel et al. 1984; Beraldo et al. 2003), and genetics (Beraldo et al. 2003; Koumoundouros et al. 1997; Tave et al. 1983). The cause of shortened opercula in RGSM is not known, but results of our clearing and staining of a few samples suggest the margins of shortened opercula may not have the same bone density as normal opercula. However, this may be due to age differences as the Dexter RGSM were larger and likely older than the Site 2 RGSM. More same-age animals need to be studied. Available

evidence suggests that this deformity may be a non-inherited congenital defect (Tave et al. 1982; Tave and Handwerker 1994), induced during the embryonic or larval stage (Al-Harbi 2001; Koumoundouros et al. 1997). Although the effects of a shortened operculum on fish function, especially at the gills, are unknown, gill pathologies were reported for nearly all fish in this study. Our finding, from analysis of archived samples, that fish with shortened opercula were also shorter in length may further support a negative effect (on growth) of having a shortened operculum.

Gonads presented with few abnormalities. No evidence of effects of estrogenic exposure (e.g., elevated atresia, intersex) was observed in this study. However, the increase in relative proportion of females from upstream to downstream sites, and the possible finding of a male with testicular oocytes warrants further investigation given that the Rio Grande is dominated by wastewater flows much of the year. Moreover, past findings of vitellogenin induction in fish and >20 pharmaceuticals and personal care product chemicals in waste water treatment plant (WWTP) effluents (NMED 2009) indicates that endocrine active compounds are present. The presence of ectopic oocytes needs to be verified with additional samples. Ectopic oocytes are rare but may result during early development from disruption of migration of the primordial germ cells to the gonad (Kobayashi and Hishida 1985).

Temporal

Fish collected in the first year of sampling were larger than the second year suggesting that the first year collections contained larger individuals from a population that may also contain larger fish.

During the summer months (July-October) flows in the silvery minnow critical habitat are greatly reduced, temperatures are high, and wastewater from the three treatment facilities in the study reach comprises a greater volume of the flow (Kelly et al. 2006; NMED 2008b). Resulting salinity, nitrate and phosphate (Zeglin et al. 2006), total organic carbon, and fecal streptococci concentrations (Langman and Nolan 2005) documented to be high during the summer indicate generally reduced water

quality and may cause stressful conditions as reflected by the silvery minnow histopathology observed in this study. July and October measures of total phosphorus and BOD at the sites in this study tended to be higher than during other months (NMED 2009, Table 5). General health as measured by the HAI and SSI indicated a seasonal pattern of greater stress in summer/fall (July/October). Histopathologies also tended to be more prevalent in fish caught in July: more MAs, and fat in livers and spleens; more granulomas in livers; low liver glycogen; larger spleens lower in red blood cells. These results are indicative of general physiological stress and immune system responses. Consistent with these observations, the greatest number of fish with bacteria was collected during July compared to other months (USFWS 2009) and increased leukocyte proliferation was observed during summer. Gill and kidney pathologies were elevated throughout all months and did not show any seasonal trends.

Spatial

In general, fish at the two sites above Albuquerque were healthier than the fish below Albuquerque, however health in fish at all sites was impaired to some degree. Health assessment results reported here were also consistent with Middle Rio Grande water and sediment quality and tissue residue data collected by the New Mexico Environment Department (NMED 2009) during the study period at sites sampled in this study. Although Rio Grande silvery minnows collected at Site 1 were relatively healthier than fish collected at all other sites, water quality exceedences were reported for chronic Al exposure and *E. coli* levels (NMED 2009). Also, carp tissues, only collected at Sites 1-4, were elevated for Zn at Site 1 and not the other three sites (NMED 2009). Naturally elevated Al concentrations are likely in the RGSM critical habitat as the surrounding mountains are rich in aluminum (NMED 2008b). Of the organochlorines tested, only total DDT was at concentrations of concern only at Site 1 and between Sites 2 and 3 (NMED 2009). In the nearly 20 miles downstream to Site 2, effluents from three wastewater treatment plants (WWTPs) and a flood diversion channel for the

city of Albuquerque enter the Rio Grande. Silvery minnow collected at Site 2 were slightly healthier than RGSM further downstream for some metrics but equivalent to downstream fish for others. Water quality exceedences at this site were reported for chronic Al, and *E. coli* as well as for dissolved oxygen and ammonia (NMED 2009). Chronic and acute Cu levels were exceeded in the river reach just upstream of Site 2 (NMED 2009). Sediment semi-volatile PAHs (polyaromatic hydrocarbons) measured at all sites exceeded NOAA/SQuiRT guidelines primarily at Sites 2-4, and were not detectable at Sites 1 and 6 (NMED 2009). Site 3 is the first site geographically below metropolitan Albuquerque. Effluent from the Albuquerque wastewater treatment plant is the major river inflow. At this site or in the river reach above it to Site 2, water quality exceedences were reported for chronic Al and Cu, acute Cu, *E. coli*, dissolved oxygen, and ammonia (NMED 2009). At Site 3, cyanide, as well as PAHs, was elevated in sediments (NMED 2009). Water quality, sediment contaminant levels, and fish tissue residue results were similar at Sites 3 and 4. A couple of smaller WWTPs enter the river in the nearly 20 miles between these latter sites, and a few more are found in the 50 miles between Sites 4 and 5 and Sites 5 and 6. Only the metals and not PAHs, cyanide, ammonia or pH, were of concern at Site 5 and by Site 6 only chronic Al was in exceedence (NMED 2009). The HAI, SSI, and the percentage of fish with two or more pathologies tended to indicate increasing impairment downstream at or below Site 3. The incidence and severity of pathologies was generally low or variable among sampling dates and numbers of fish sampled were low, and this may have prevented significant site-specific associations. However, liver granulomas were common at Sites 3 and 4, spleen granulomas were frequent at Site 6, and MAs tended to be highest at Site 3 and lowest at Site 1. In addition, the immunological response as evaluated by leukocyte production was greater at Site 3 than Site 1.

Our results indicate that the RGSM in the reach of critical habitat between Bernalillo, NM and Bosque del Apache National Wildlife Refuge are experiencing chronic stress as evidenced by a suite of

health indicators. Given the results from the bioindicators used in this study and the stressors measured by the NMED (2009), it appears that the stress is likely related to constituents of poor water and sediment quality (metals, bacteria, and possibly PAHs). Furthermore, the biology of the RGSM as a benthic feeding fish occupying slow moving waters increases its exposure to chemicals and pathogens associated with sediments. Although the present health study was not designed to identify cause and effect linkages, the health effects we observed in the Rio Grande silvery minnow are in agreement and consistent with the known impacts of urban effluents, stormwater runoff, and agricultural return waters. Recently, RGSM was re-introduced to the Rio Grande near Big Bend National Park (http://www.fws.gov/Endangered/home_stories/silvery_minnows.html). Health monitoring of RGSM along with routine population monitoring in this less polluted section of the Rio Grande and comparison of results with the present and future studies in the middle Rio Grande should serve to increase our understanding of the relative impact of contaminated habitats on Rio Grande silvery minnow recovery.

Disclaimer

Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U. S. Government.

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Figure 1. Mean total length ± SE of Rio Grande silvery minnow caught during four months (top panel) from 2006-2008 at six sites (bottom panel) in the Rio Grande. Sites or months with the same letter are not significantly different. See Table 2 for locations of sites.

Figure 2. Mean weight ± SE of Rio Grande silvery minnow caught during four months (top panel) from 2006-2008 at six sites (bottom panel) in the Rio Grande. Sites or months with the same letter are not significantly different. See Table 2 for site descriptions.

Figure 3. Mean splenosomatic index (SSI) ± SE of Rio Grande silvery minnow caught during four months (top panel) from 2006-2008 at six sites (bottom panel) in the Rio Grande. Sites or months with the same letter are not significantly different. See Table 2 for site descriptions.

Figure 4. Mean health assessment index (HAI) ± SE of Rio Grande silvery minnow caught during four months (top panel) from 2006-2008 at six sites (bottom panel) in the Rio Grande. Sites or months with the same letter are not significantly different. See Table 2 for site descriptions.

Figure 5. Mean percent ± SE females of Rio Grande silvery minnow collected at each of six sites. Mantel-Haenszel Chi-Square indicated a significant trend in more females in downstream sites ($p < 0.0001$). Numbers on bars indicate the number of sampling events.

Figure 6. Percent of total Rio Grande silvery minnow collected at each of six sites with 1 or $\geq$2 pathologies for kidney (bottom panel), liver (middle panel), spleen (top panel).

Figure 7. Kidney section from a Rio Grande silvery minnow from Dexter National Fish Hatchery (A) showing normal kidney and from a silvery minnow captured at Site 3 showing hyaline droplet degeneration of tubular epithelial cells (arrows). HE stain.

Figure 1.

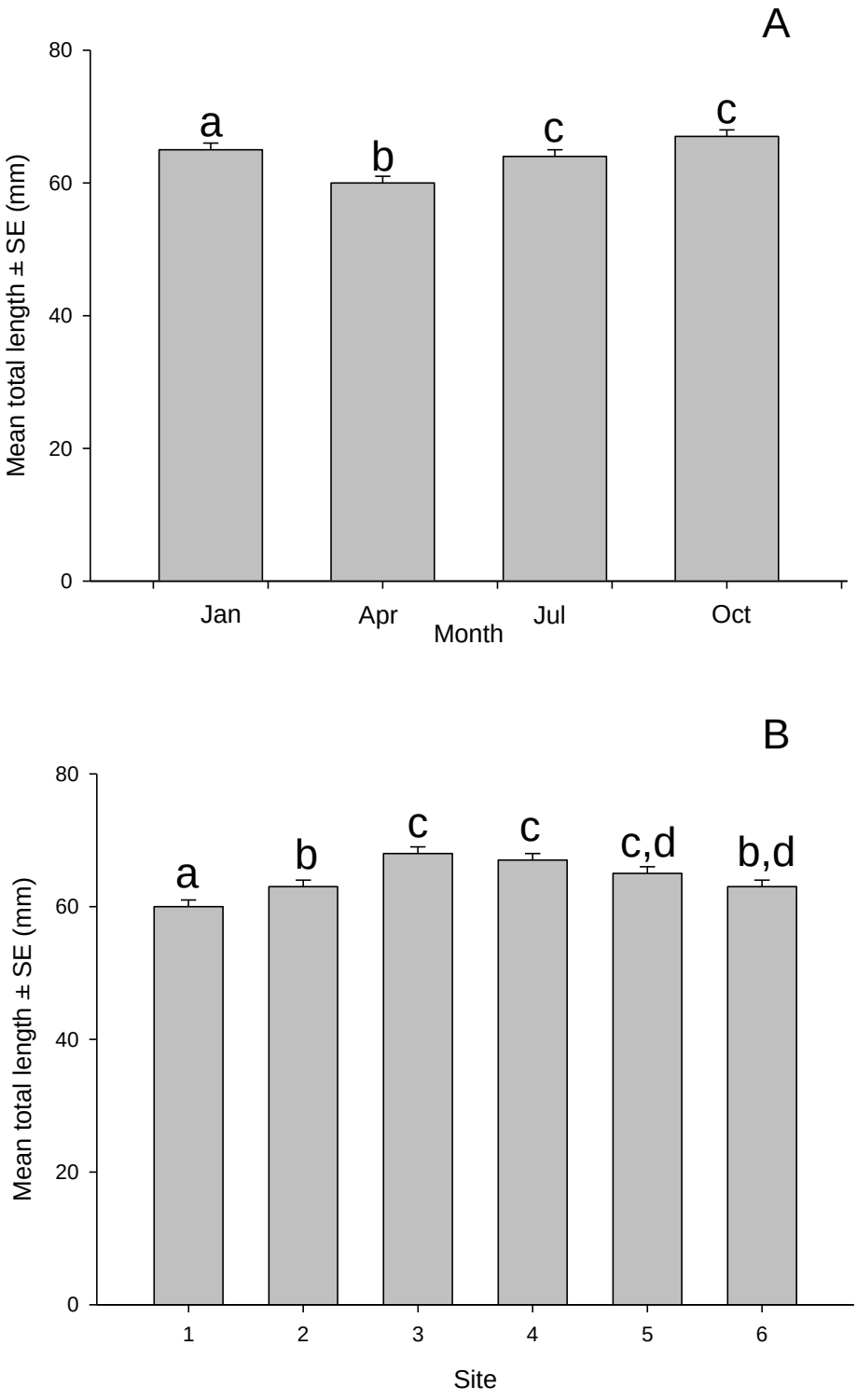

A
80
60
40
20
0
Mean total length ± SE (mm)
a
b
c
c
Jan
Apr
Jul
Oct
Month
B
80
60
40
20
0
Mean total length ± SE (mm)
a
b
c
c
c,d
b,d
1
2
3
4
5
6
Site

Figure 2

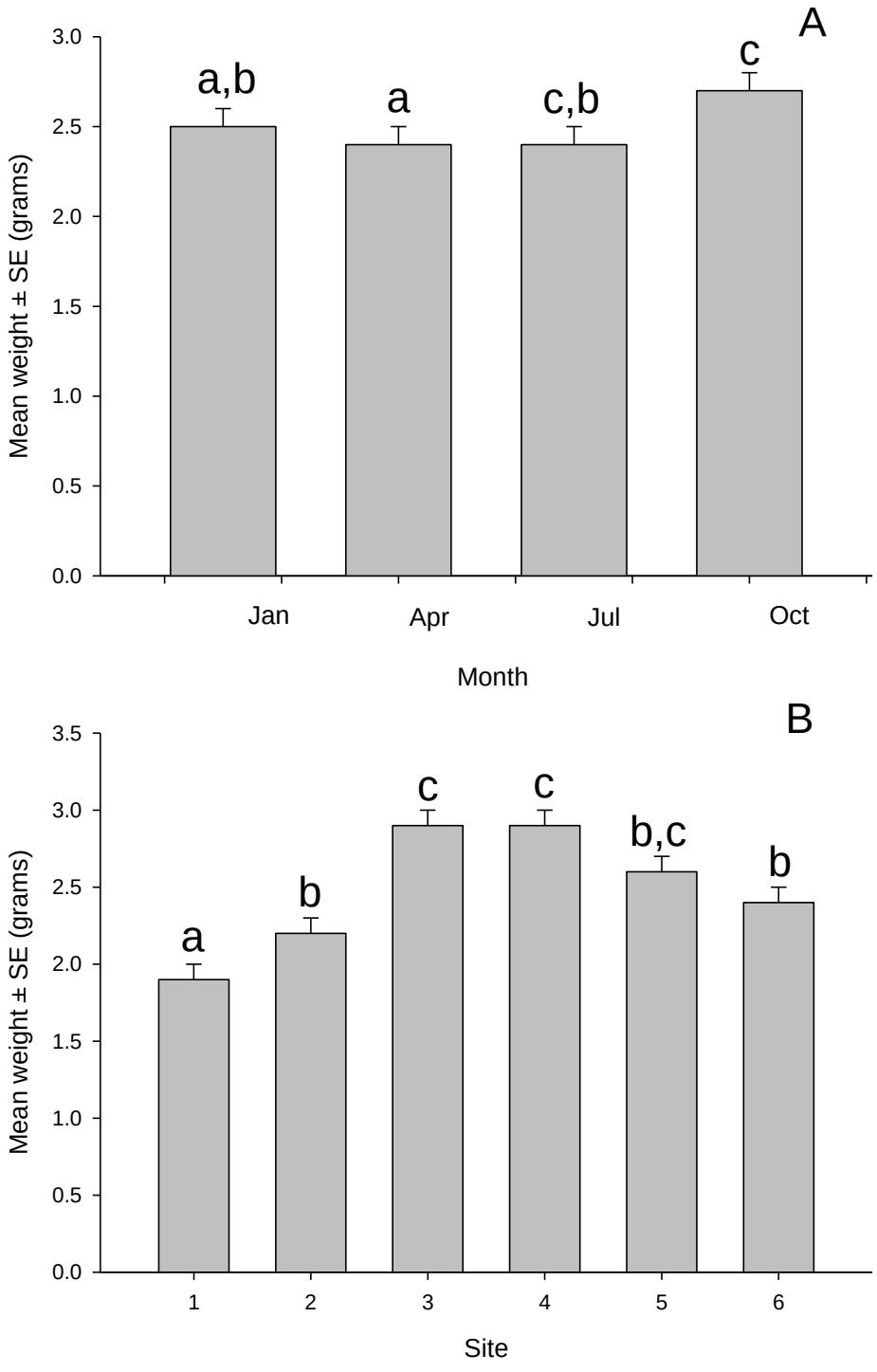
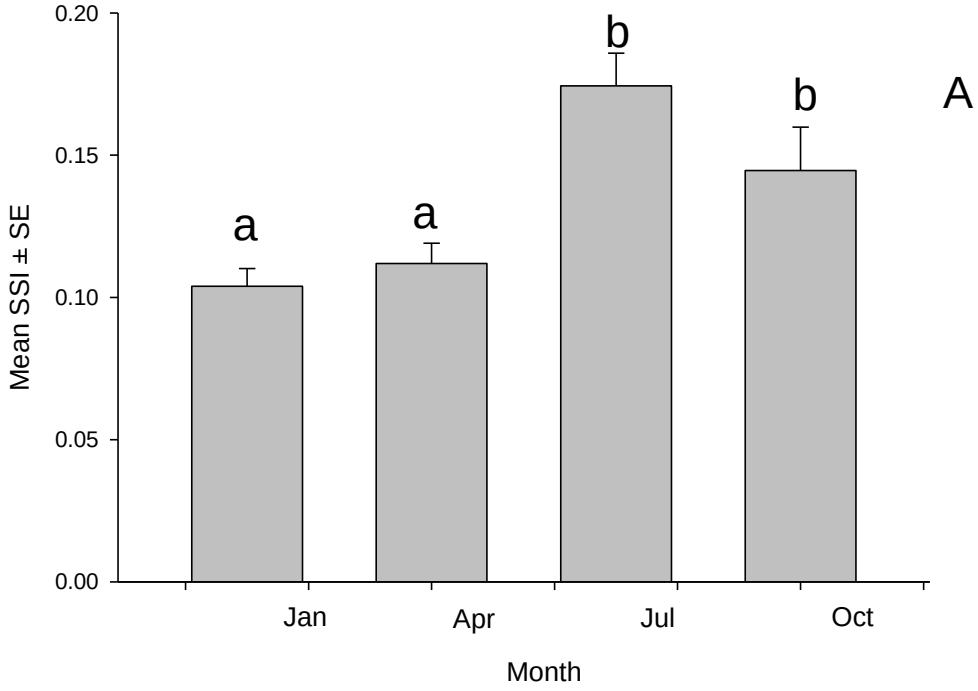
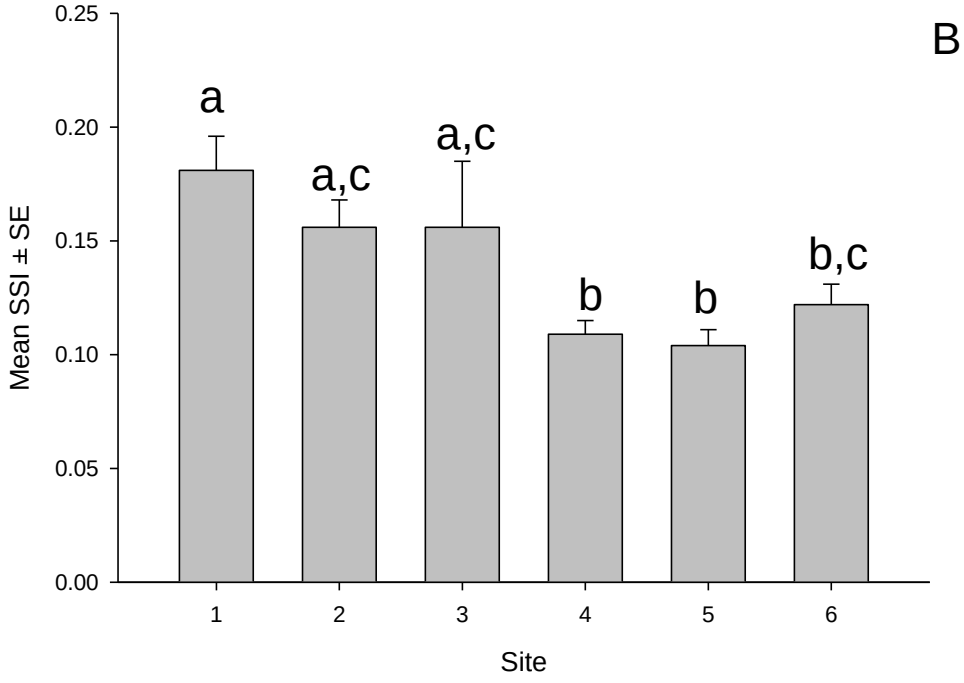

A
a,b
a
c,b
c
Mean weight ± SE (grams)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Jan
Apr
Jul
Oct
Month
B
a
b
c
c
b,c
b
Mean weight ± SE (grams)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
Site

Figure 3


A
Mean SSI ± SE
0.20
0.15
0.10
0.05
0.00
a
a
b
b
Jan
Apr
Jul
Oct
Month


B
Mean SSI ± SE
0.25
0.20
0.15
0.10
0.05
0.00
a
a,c
a,c
b
b
b,c
1
2
3
4
5
6
Site

Fi gure 4

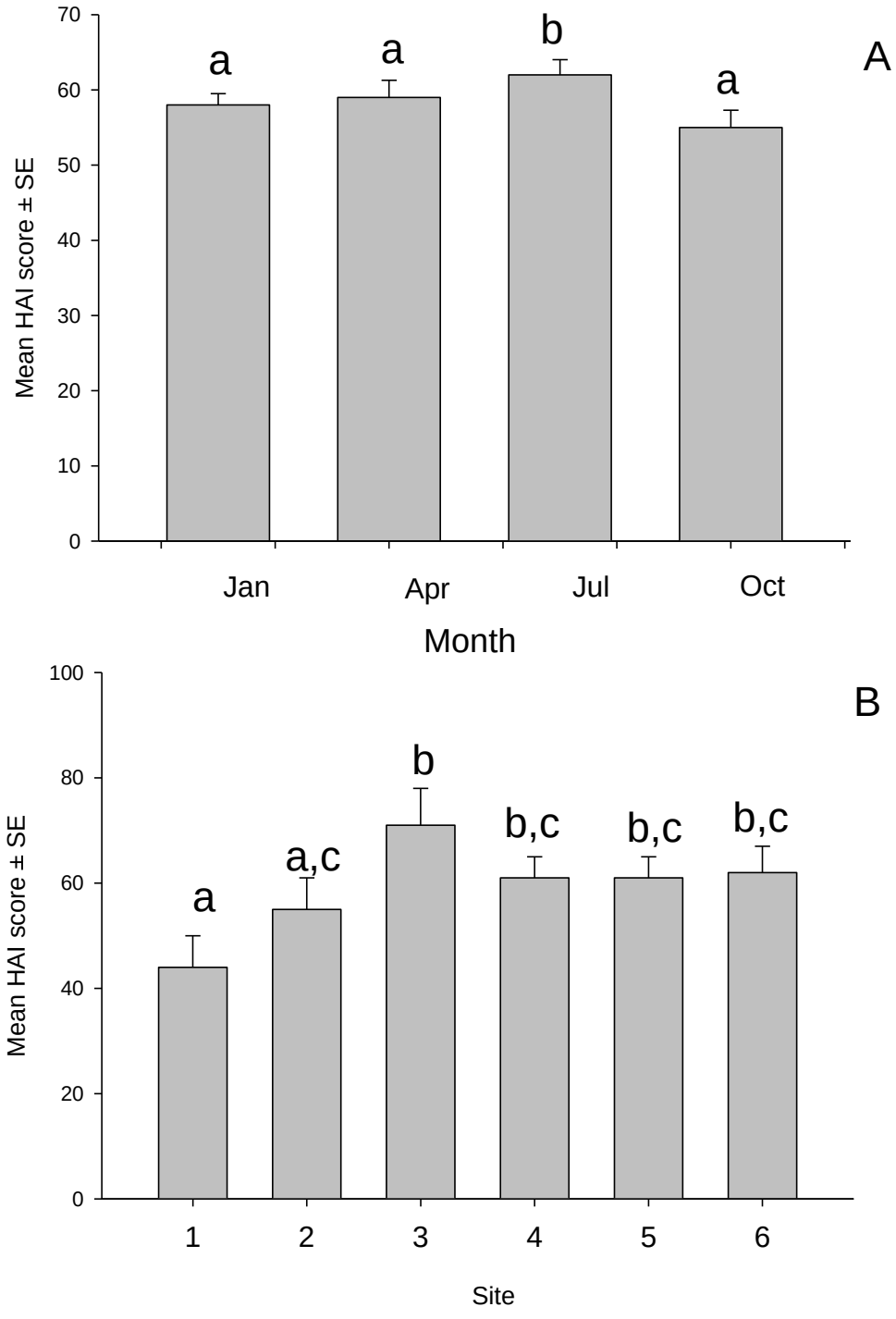

A
Mean HAI score ± SE
70
60
50
40
30
20
10
0
a
a
b
a
Jan
Apr
Jul
Oct
Month
B
Mean HAI score ± SE
100
80
60
40
20
0
a
a,c
b
b,c
b,c
b,c
1
2
3
4
5
6
Site

Figure 5.

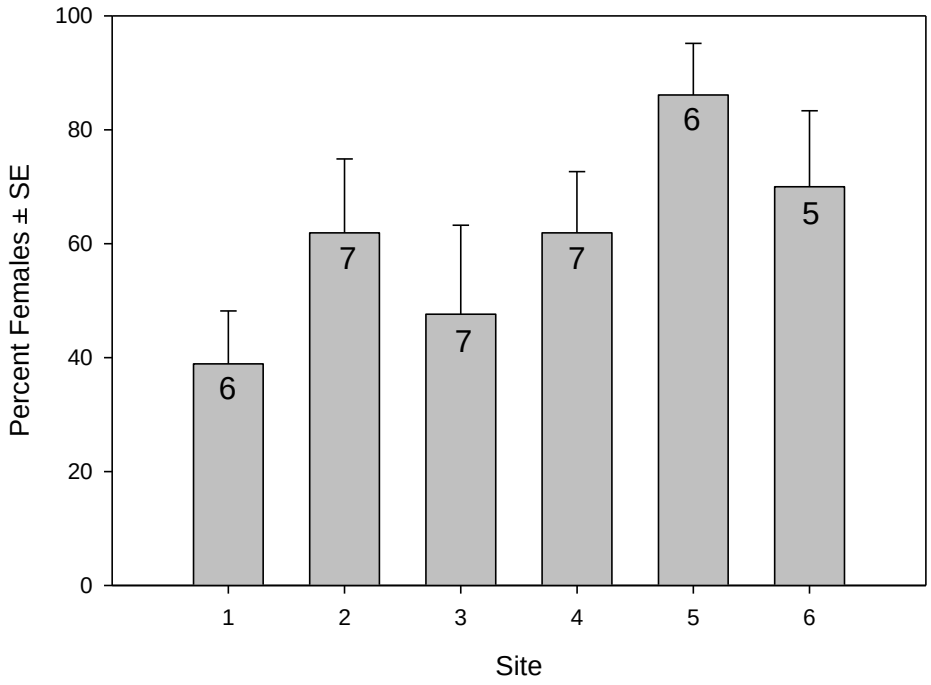


Figure 6.

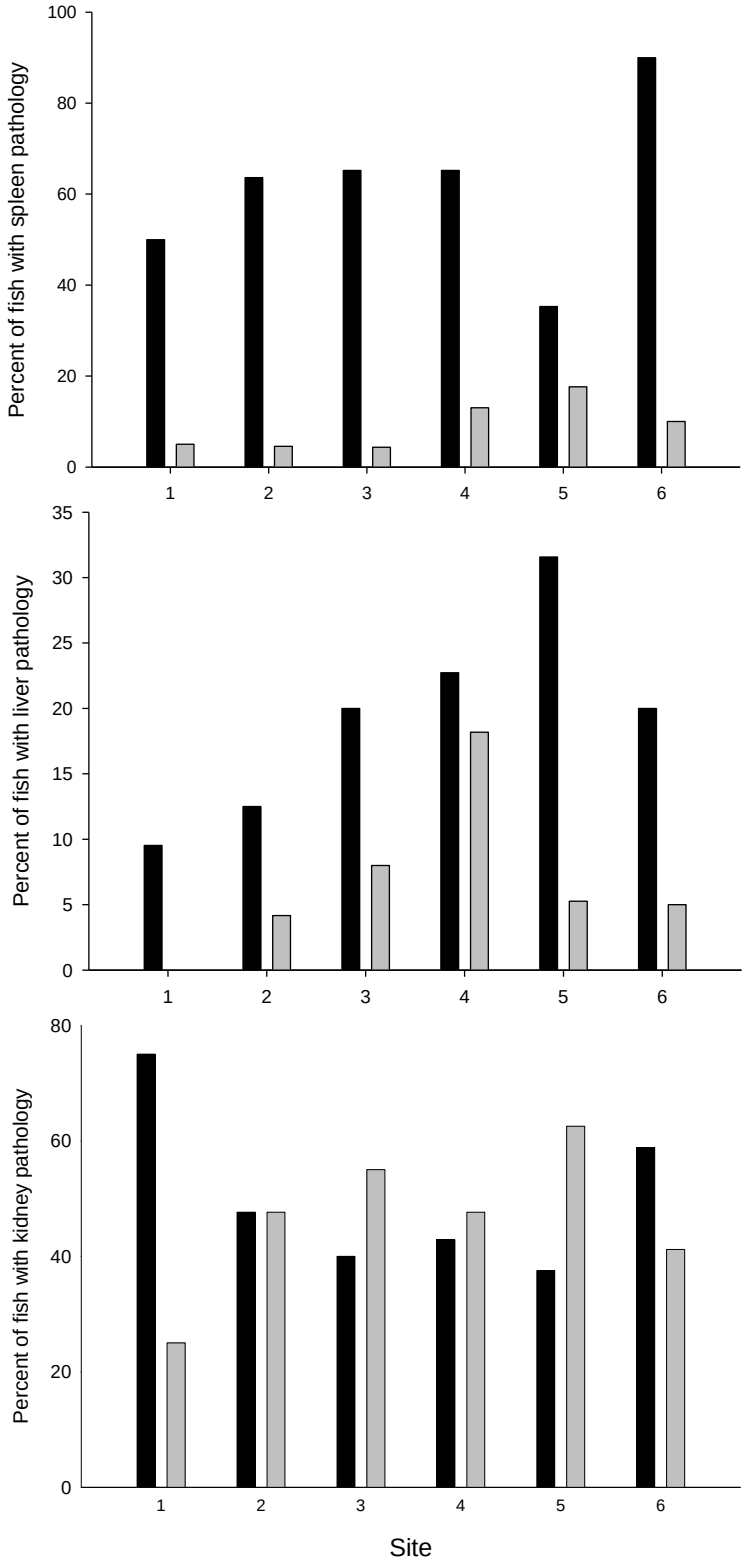
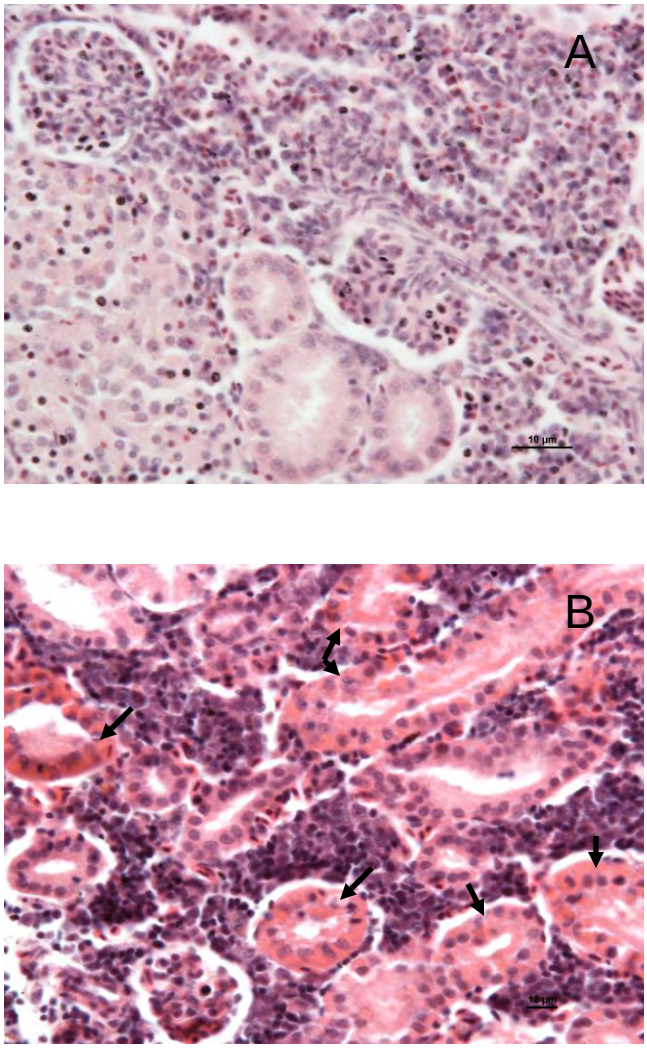

Percent of fish with spleen pathology
100
80
60
40
20
0
1
2
3
4
5
6
Percent of fish with liver pathology
35
30
25
20
15
10
5
0
1
2
3
4
5
6
Percent of fish with kidney pathology
80
60
40
20
0
1
2
3
4
5
6
Site

Figure 7.



United States Department of the Interior

Fish and Wildlife Service

Dexter National Fish Hatchery & Technology Center

P.O. Box 219, 7116 Hatchery Road

Dexter, New Mexico 88230

575-734-5910, 575-734-6130 fax

Rio Grande Silvery Minnow Health Study – Fish Pathogen Assessment

Interagency Agreement Number: (06-AA-40-2548) - RFP 06-SF-40-2452

August 28, 2012

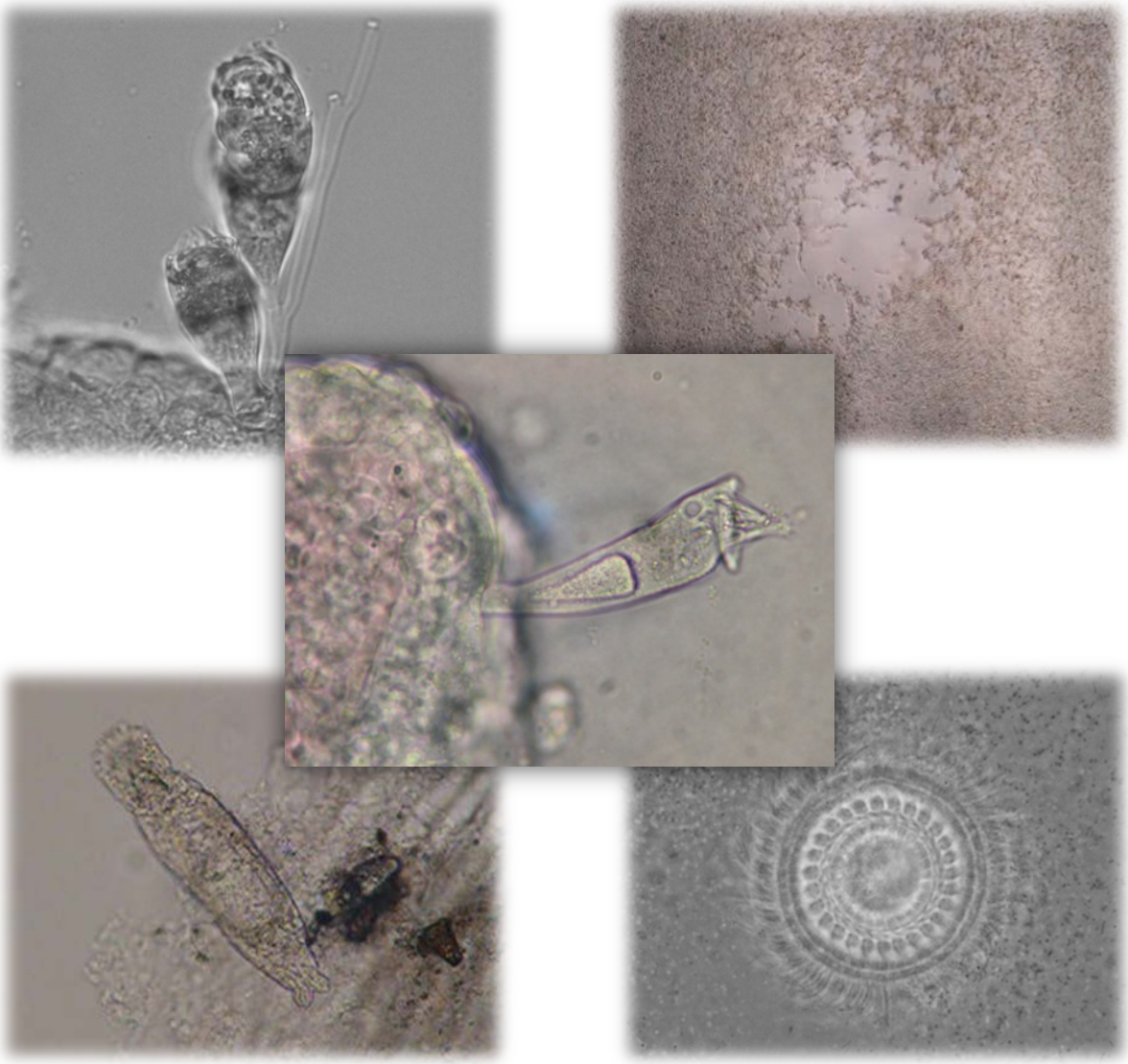
Prepared by: Jason Woodland, USFWS Dexter Fish Health Unit

Dexter National Fish Hatchery and Technology Center

Dexter, New Mexico 88230

Submitted to: USFWS New Mexico Ecological Services Field Office Albuquerque, NM 87113

Appendix 5. Rio Grande Silvery Minnow Fish Health Study – Fish Pathogen Assessment



Cover photography (pictures listed left to right and top to bottom) by J. Woodland/USFWS: 1) *Epistylis* sp. on a fish scale, 2) viral cytopathic effect on fathead minnow cells, 3) *Apiosoma* sp. on a gill lamellae, 4) *Gyrodactylus* sp. from a skin scrape, and 5) *Trichodina* sp. from the gills.

Abstract: Assessment of pathogens affecting the Rio Grande silvery minnow *Hybognathus amarus* is crucial in understanding impacts to recovery efforts of this federally listed endangered fish. Viral, bacterial and parasite pathogen examinations were conducted on Rio Grande silvery minnow in this study to provide a comprehensive pathogen assessment. The prevalence of isolated pathogens was determined from up to 60 fish for bacteriology and virology and up to 30 fish for parasitology from each sampling. Collections occurred quarterly at six sites along the middle section of the Rio Grande between July 2006 and July 2008. The top four most prevalent parasites observed were from the family Trichodinidae and the genera *Apiosoma, Cryptobia*, and *Ichthyobodo*. No significant bacteria or viruses targeted nationally by the U.S. Fish and Wildlife Service were isolated. There were also no significant overall differences in the mean parasite prevalence between the sites. Correlations between types of infection indicate a majority of 'parasite only' infections (65%) compared to 'bacteria only' (19%) or 'parasites and bacteria' present (16%). The parasites observed in this study range from being normal ectocommensals to possessing potential for acute pathogenesis and are generally indicators of poor water quality. Longer term study and standardization of parasite examination protocols will provide additional information on occurrence trends and potential impacts of the parasites observed. Results of this study provide a baseline of information on the types of pathogens currently observed with Rio Grande silvery minnow in the middle reach of the Rio Grande.

Introduction/Background

Assessment of pathogen presence in the federally listed endangered Rio Grande silvery minnow *Hybognathus amarus* is important for understanding the species' current health status for conservation efforts. This comprehensive study concentrates on pathogen presence for the RGSM extant to the middle section of the Rio Grande. Traditional targeted pathogen categories used for identifying pathogen presence include viruses, bacteria, and external parasites. Depending on the host species, environmental conditions, and pathogens present, pathogen impacts on fish health varies. Many microbes are ubiquitous in nature and may not impact fish health due to natural immunity. However, if environmental conditions or other stressors compromise the fish's underlying immune function, these ubiquitous microbes can cause disease and mortality. Currently there are no known pathogens that specifically target the Rio Grande silvery minnow.

Observing disease or mortality events in the Rio Grande is difficult due to the hydrology, water operations, and turbidity of the water, obscuring monitoring efforts for these small fish. Consequently, to better understand if pathogens are impacting Rio Grande silvery minnow survival and recruitment it is best to take a proactive approach by conducting pathogen examinations on live fish. Dead fish do not generally have much utility for conducting pathogen examinations for several reasons. First, external parasites exit the host quickly after fish death. Second, viruses are obligate intracellular pathogens and may be degraded unless tissue samples are preserved properly for testing since various cellular lytic cascades are initiated postmortem. Third, bacteria multiply exponentially in dead fish that are no longer capable of mounting

protective immune responses resulting in skewed or biased colony counts using bacteria diagnostic methods.

The primary purpose of the pathogen and parasite surveys described herein is to determine the distribution pattern of specific pathogens and parasites on or in Rio Grande silvery minnows collected in the middle reach (New Mexico portion) of the Rio Grande. This research is one component of an interagency objective to establish a baseline health status of the Rio Grande silvery minnow and the Rio Grande. Additionally, relevant bacterial and viral pathogen survey results will add to the base of knowledge for the U. S. Fish and Wildlife Service's National Wild Fish Health Survey (NWFHS) and will be uploaded to the survey's database website for public access.

Parasitology Methods

Rio Grande silvery minnow, collected primarily by the U. S. Fish and Wildlife Service's New Mexico Ecological Services and New Mexico Fish and Wildlife Conservation Office, were examined for external parasites from six locations along the middle section of the Rio Grande. Collection sites were identified based on their proximity to nearby cities: Site 1, Bernalillo; Site 2, Alameda; Site 3, Los Padillas; Site 4, Los Lunas; Site 5, La Joya; and Site 6, San Antonio. The targeted sample size for external parasite examinations was 30 fish per site per time point.

Parasite examinations were conducted on fish sampled quarterly during each of two field sampling years. The sampling dates were as follows: July 2006, October 2006, January 2007, April 2007, October 2007, January 2008, April 2008, and July 2008. Generally, three sites were sampled each week over the course of two consecutive weeks during each collection month

mentioned above. Prior to parasite examination, live Rio Grande silvery minnow were euthanized by overdose with tricaine methanesulfonate (Finquel; Argent Chemical Laboratories, Inc., Redmond, WA). Examination of external parasites was conducted by microscopic examination of wet mounts from skin scrapes and gill clippings from each fish. Skin scrapes were produced by collecting mucus on a cover glass along one side of the fish and then placing the mucus on microscope slides with a drop of distilled water and coverslipping. Gill clips were collected with necropsy scissors and placed on slides similar to skin scrapes. Wet mounts of the skin scrapes and gill clippings were examined at 40x, 100x, 200x, and 400x magnifications using a compound light microscope.

Parasites were identified and enumerated for each of the samples. The number of parasites recorded varied, in part due to the lack of a standardized sampling protocol. Before April 2008 several parasite counts were estimated by collectors. A plus sign was added to indicate additional parasites present than counted and also to estimate a general number of parasites present. After April 2008 each type of parasite was counted up to one hundred. If there were more than 100 parasites present for each parasite type, it was noted with a plus sign (Appendix 5A).

Parasites examined with the compound light microscope were identified to the species level when possible. If parasites could not be identified to species level, the taxonomic family, class and/or genus was recorded. Any visual implant elastomer (VIE) tags present were also recorded based on their color and location. VIE marked fish are captive reared produced fish stocked into the river.

Bacteriology Methods

Samples for bacteriology were aseptically collected from the kidney tissue of each fish with sterile 1-µL inoculation loops (Thermo Fisher Scientific, Rochester, NY). Up to 60 fish per site were sampled for bacteria (Table 1). Tissue samples were streaked onto brain heart infusion agar (BHIA) slants (Becton Dickinson, Sparks, MD) and incubated at 20°C in an ambient air incubator. Individual bacterial colonies that grew in culture within four days were further processed for identification.

Identification of bacteria was conducted following procedures used in sampling and screening of targeted bacterial pathogens described by the Standard Procedures for Aquatic Animal Health Inspections (USFWS and AFS-FHS 2005). The bacteria information recorded follows several assumptions in determining if isolates of bacteria were different (Appendix 5B). In addition to the initial tests of cytochrome oxidase, motility and gram stain or KOH testing, biochemical identification of Gram negative bacteria was conducted using the API 20E™ identification system (bioMérieux® SA, Marcy I'Etolle, France). Bacterial identifications based upon lab results and lab codes (assigned to each culture for tracking back to the individual fish) were recorded (Appendix 5C). Isolates of bacteria identified as targeted pathogens by API, as listed by U.S. Fish and Wildlife Service's Aquatic Animal Health Policy (Part 713 FWS 1 Exhibit 2), were compared to API codes of known targeted pathogens and further tested by direct fluorescence antibody test (DFAT) following protocols listed in Standard Procedures for Aquatic Animal Health Inspections (USFWS and AFS-FHS 2005).

Virology Methods

Whole viscera samples including the kidney were sampled for viral testing. Up to 60 fish per site were sampled (Table 1). Samples of viscera were pooled into groups of five fish pools and diluted 1:10 in Hank's Balanced Salt Solution (HBSS) (Invitrogen, Carlsbad, CA). The HBSS contained the following supplements (all obtained from Invitrogen): penicillin (600 IU per mL), streptomycin (1600 µg per mL), amphotericin B (40 µg per mL) and sodium bicarbonate (375 µg per mL) (HBSS anti-inc medium). Samples were maintained at 4ºC no longer than 72 hours prior to processing *in vitro* at the Dexter Fish Health Unit.

Two methods were used to process the samples *in vitro*. Samples were diluted to a final concentration of 1:100 in HBSS anti-inc medium and either filtered through a sterile 0.45 µm membrane (Pall Corporation, Ann Arbor, MI) or centrifuged (Eppendorf Centrifuge 5810R, Brinkman Instruments Inc., Westbury, NY) to pellet sample debris at 2500 x *g* for 15 minutes. This filtration method allowed for quicker processing of the samples on the same day by physically removing non-viral particles from the sample. Centrifugation of the samples was performed after a two hour incubation at 15ºC or overnight incubation at 4ºC and this method allowed for additional antibiotic disinfection of the sample prior to inoculation of tissue cultures.

In general, sample processing and testing was conducted following procedures described by the Standard Procedures for Aquatic Animal Health Inspections (USFWS and AFS-FHS 2005). However, since the samples from this study originated from the wild, our test had some slight modifications in virology procedures. These procedures followed the USFWS National Wild Fish Health Survey laboratory manual which does not require conducting blind passes for cell culture and the observation period for virus isolation is 21 days. The other exception was the

time period between collection of the samples and processing samples *in vitro* for virology. This time period varied with the day the samples were collected from all sites for the week and return of the samples for *in vitro* processing at the end of the week.

Fat head minnow (FHM) and chinook salmon embryo (CHSE-214) cells were used for virus isolations. Cultures in 24 well cell plates (Becton Dickinson, Franklin Lakes, NJ) were inoculated in duplicate, excluding negative (no inoculum) controls, and incubated at 25ºC for FHM cultures and 15ºC for CHSE-214 cultures. After inoculation, cells were rocked at the appropriate incubation temperature (25ºC for FHM, 15ºC for CHSE-214) for 45 minutes to facilitate viral particle attachment and then overlaid with 1 mL of Eagle's Minimum Essential Medium (EMEM; Invitrogen) supplemented with 5% fetal bovine serum (Thermo Fisher Scientific, Logan, UT), penicillin 100 IU/mL, streptomycin 100 µg/mL, amphotericin B solution 2.5 µg/mL, 15 mM HEPES and sodium bicarbonate 2.2 mg /mL (pH 7.2) for each well. Samples were monitored and observations recorded at least biweekly for viral cytopathic effect (CPE) during the incubation period of the test.

Any samples with observed CPE were tested by polymerase chain reaction (PCR) assay for largemouth bass virus (LMBV) and reverse-transcriptase PCR (RT-PCR) for infectious pancreatic necrosis virus (IPNV). LMBV and IPNV were the only suspected viruses for this environment that were also considered listed pathogens as determined by U.S. Fish and Wildlife Service's Aquatic Animal Health Policy (Part 713 FWS 1 Exhibit 2). DNA extraction for LMBV was conducted using the BuccalAmp DNA extraction kit (Epicentre Biotechnologies, Madison, WI) per established laboratory procedures along with the manufacturer's directions with the kit. PCR for LMBV was conducted as described in the National Wild Fish Health Survey Laboratory Procedures Manual. Extractions of RNA for IPNV were conducted using a

QIAamp® MinuElute® Virus Spin Kit (QIAGEN Inc. - USA, Valencia, CA). The RT-PCR for IPNV was conducted as described by the Standard Procedures for Aquatic Animal Health Inspections (USFWS and AFS-FHS 2005). PCR reactions were run on 1.5% agarose gels in tris-acetate-EDTA buffer and stained with ethidium bromide and compared with a 1 Kb DNA ladder (Invitrogen) to estimate amplicon size.

Data Treatment and Statistical Analysis

Parasite prevalence was determined from the mean and median observations from all sampling periods and sites. The most dominant parasite prevalence between each site for the entire study was then compared. The mean plus and minus the standard error of the mean (± s.e.m.) was used to compare differences in the overall prevalence of infection for selected parasites between sites. The statistical analysis of differences observed between sites for each type of parasite, based on the mean ± s.e.m., was considered statistically significant by *t*-test when the *P* value was < 0.05.

Correlations were determined between three levels of observations, including identifying both bacteria and parasites on the same fish, identifying parasites only on a fish or bacteria only on fish. The percentage of each type of correlation mentioned above from each location and sampling period was then determined. The results of this correlative analysis are then compared to provide an overall summary.

Results

Four external parasite types (taxonomic family or genera) were dominant in the external parasite examinations (Figures 1 and 2). In order of greatest to least prevalence, these were identified as Trichodonidae, *Apiosoma* sp., *Cryptobia* sp. and *Ichthyobodo necator*. Additional parasites observed in the study and identified in order of greatest to least prevalence included: Monogenea (primarily *Gyrodactylus* spp.), *Epistylis* sp., *Ambiphrya* sp., *Lernaea cyprinacea* (anchor worm), *Icthyophthirius multifiliis* ("Ich"), *Clinostomum marginatum* (yellow grub), *Trichophrya piscium*, and *Chilodonella cyprini*.

No significant differences were observed between sample sites for the top four most prevalent parasites ($P > 0.05$). Significant differences tested were based on the observable differences between the mean ± s.e.m. (Table 2).

Comparison between bacterial and parasite isolations observed did not reveal any discernable patterns from the data collected for the individual sites at different collection time points (Table 3). Fish from Site #6 San Antonio did show consistent parasite infestations but there was no data collected from this site during October 2006 and April 2007; therefore, no statistical significance to this observation could be determined (Table 3). When considering the majority of types of infections with bacteria or pathogenic parasite isolations per sampling period, 65% of the sampling periods resulted in a majority of 'parasite only' isolations from fish while the remaining sampling periods resulted in a majority with both 'parasites and bacteria' 16% of the time and 19% of the time with 'bacteria only'. Table 4 describes the percentage observed with parasites and bacteria for each site and collection. The overall mean prevalence of pathogenic parasite infestations compared to bacterial isolations was 70% and 37%, respectively,

for the entire study when averaging each site's data. The San Antonio site had the greatest prevalence of parasite infestations at 78% followed by Los Lunas at 72%, Los Padillas and La Joya at 69%, Alameda at 67% and Bernalillo at 66%. The La Joya site had the greatest prevalence of bacterial isolations (44%), followed by Bernalillo at 41%, Los Padillas and Los Lunas at 40%, Alameda at 34% and San Antonio at 22%.

No bacteria or viruses isolated from this study were considered targeted fish pathogens per the USFWS Aquatic Animal Health Policy (Part 713 FW 1 - Exhibit 2). Of the bacteria identified by the API test, 33 different genera of Gram negative bacteria were represented. One isolate was presumptively identified by API as *Aeromonas salmonicida*, a targeted bacterial pathogen, but later determined as negative by a direct fluorescent antibody test more sensitive and specific for *A. salmonicida*. Several Gram positive bacteria, not characterized by API, were isolated from the Rio Grande silvery minnows. One unidentified virus was isolated from one pool out of twelve collected in October 2007 at the Los Lunas sampling site. This sample was confirmed negative for LMBV and IPNV when tested by PCR. A sample of this virus was identified as a putative Aquareovirus based on its cytopathic effect in culture (J. Winton, U.S. Geological Survey–Western Fisheries Research Center, Seattle, WA, USA, personal communication). Having been characterized as a non-targeted pathogen, no additional identification of the virus was attempted.

Discussion

Potential pathogen trends were examined in this study to provide a baseline of knowledge in determining possible health concerns for the Rio Grande silvery minnow. This study

examined the specific areas of parasitology, virology, and bacteriology in determining pathogenic trends. Isolation of individual parasites, viruses and/or bacteria does not always indicate a health concern as all organisms, including fish, harbor normal microflora and commensal parasites. Therefore, the significance of microbes isolated in this study are discussed in context of detailing potential impacts for causing disease or mortality and by providing possible explanations for their isolation based on their prevalence in specific sites.

Most external parasites observed in this study are ubiquitous and are expected to be found in low numbers in free ranging fish populations (Beverly-Burton 1994, Ewing 2002, Taylor and Goodwin 2002). In culture conditions these parasites can rapidly multiply and transmit to other fish with crowded conditions, causing disease. In hatchery conditions, water flow and exchange may also be reduced which can allow potential fish pathogens to persist and infect fish. In the wild, fish have greater capability to flee undesirable environments that may lead to pathogen infestation. As the health of a fish is compromised by increases in parasite burden the potential for pathogenesis is also increased. The degree of parasite infestation should then be the primary area of interest when determining whether parasites are having a negative impact on an individual fish's health (Taylor and Goodwin 2002).

However, because our data collection lacked a standardized approach for counting numbers of parasites, selection of gills for examination and the area of observation, the most accurate use of the data was to determine parasite prevalence. Although parasites observed were counted, sample collection counts of parasites may not accurately reflect the degree of infestation uniformly.

The prevalent Trichodinids, *Apiosoma* sp., *Cryptobia* sp., and *I. necator* parasites isolated from this study can all be found on the skin and gills of fish (Hoffman 1999, Mitchum 1995,

Noga 2000). *Cryptobia* completes its life cycle on the gills and is generally only found on the skin in heavier infestations (Hoffman 1999, Mitchum 1995). Of the four most prevalent parasites, *Apiosoma* and *Cryptobia* are primarily ectocommensal organisms while the Trichodinids and *I. necator* are considered ectoparasitic (Hoffman 1999, Mitchum 1995, Noga 2000).

The sessile ectocommensals isolated in this study, including *Epistylis* and *Ambiphrya*, primarily derive their nutrients from the water as bacteriovores and by filter-feeding organic debris (Noga 2000). Isolation of these ciliated parasites is typically an indicator of organically polluted waters that may also have high loads of bacteria (Noga 2000). They only become a problem for fish when their numbers increase, leading to a physical impediment to gas exchange required for respiration (Hoffman 1999, Mitchum 1995, Noga 2000). Reduced respiration then contributes to mortality of fish. Like the ectocommensal organisms, infestations with *I. necator* and *Chilodonella* are more likely when environmental conditions such as poor water quality are present (Mitchum 1995, Noga 2000).

The ectoparasites isolated from this study, including the prevalent Trichodinids and *I. necator* plus the less prevalent *Chilodonella*, Monogenea (specifically the viviporous *Gyrodactylus* spp.), *L. cyprinacea*, *I. multifiliis,* and the digenean *C. marginatum,* are primarily pathogenic in fish (Hoffman 1999, Mitchum 1995, Noga 2000). In fact *L. cyprinacea*, *I. multifiliis*, and *C. marginatum* require fish to complete their life cycle and can amplify rapidly in closed systems. Even though *Chilodonella*, Monogenea, *L. cyprinaea*, and *I. multifiliis* are very destructive fish parasites, they were not very prevalent in the sites sampled. The numbers observed in this study did not indicate these parasites were problematic for the Rio Grande silvery minnow. However, *Lernaea* does have potential to cause mortality with only one

individual if the infected fish is small (Noga 2000, Roberts 1978). Conversely fish can tolerate a high burden of metacercaria infestation, with the exception of heavy acute infections in small fish such as the *C. marginatum* (yellow grub) isolated in this study (Noga 2000).

Ichthyobodo necator, formerly classified as *Costia necatrix*, is perhaps one of the most important and most destructive external parasites identified. This parasite causes high and acute mortality due to its parasitism of epithelial cells of fish (Markevitch 1963, Noga 2000). Environmental conditions conducive to *I. necator* reproduction lead to rapid amplification that may eventually spread externally over the entire fish (Mitchum 1995, Noga 2000). While the parasite may colonize the epithelium without much visible pathogenesis in healthy fish, *I. necator* typically becomes a problem for warm water species in cooler water conditions when their immune function may be diminished (Egusa 1991, Noga 2000). The parasite cannot survive in temperatures above 30ºC and prefers water temperatures below 25ºC (Noga 2000). As Mitchum (1995) reported previously, *Cryptobia* infestations are often associated with *Ichthyobodo* infections in the same fish, contributing to increased pathogenesis.

In contrast with *Ichthyobodo*'s potential for acute mortality, the prevalent Trichodinids isolated in this study often lead to chronic mortality in fish, with a potential of 1% loss per week (Noga 2000). This percentage may increase with concomitant secondary bacterial infections (Noga 2000), something that often occurs with ectoparasite infections and further contributes to damage of the mucus and epidermal layers. Some species of Trichodinids are highly pathogenic and can rapidly cover the entire fish leading to death (Hoffman 1999). In fact Noga (2000) states that *Apiosoma* actually acts as a nidus for bacterial colonization.

The bacteria isolated in this study are likely secondary pathogens or possibly environmental bacteria that contaminated the kidney during sampling in the field. No bacteria

isolated during this study were targeted pathogens as listed by the USFWS Aquatic Animal Health Policy (Part 713 FWS 1 Exhibit 2).

The cell lines used for isolating viruses are capable of isolating more than targeted primary viral pathogens as listed by the USFWS Aquatic Animal Health Policy (Part 713 FWS 1 Exhibit 2). The selection of cells for this study were based on their ability to support the growth of viruses of concern from warm and coldwater fish species in the southwest region of the United States. The targeted viruses for this study included: LMBV, IPNV, *Oncorhynchus masou* virus, and Infectious Hematopoietic Necrosis Virus. Only one virus, a putative Aquareovirus, was isolated in this study. Unlike many bacterial pathogens that will grow in non-selective culture media, viruses are often host specific and must be cultured in permissive cell lines. The one virus isolated in this study is not considered a disease causing agent and is among many other viruses grouped into the Aquareoviridae that have been isolated from free-ranging fish.

Recommendations for Future Work

Longer term monitoring is advisable to determine trends in the overall health of the Rio Grande silvery minnow in the middle section of the Rio Grande. This current study provides a baseline of health information that can be used to compare to health and population trends for the Rio Grande silvery minnow in the future and highlights deficiencies in current sampling methods that will allow for refinement in future studies. Development of a standardized parasitology sampling protocol should provide more robust determination of the degree of infection for future studies. Enumeration of the degree of infection will provide a better determination of the impact parasites are having on the Rio Grande silvery minnows. Testing should be expanded to

incorporate methods that target specific bacterial pathogens in fish and decrease the effort and expense entailed to identify bacterial isolates that are environmental microflora and not detrimental to fish health.

Drought and environmental contamination from increasing urbanization are likely to put continued strains on Rio Grande silvery minnow populations in this region. Establishing a relevant fish health baseline and continued monitoring of fish health parameters for this species is critical to understanding impacts to recovery efforts of this federally listed endangered fish.

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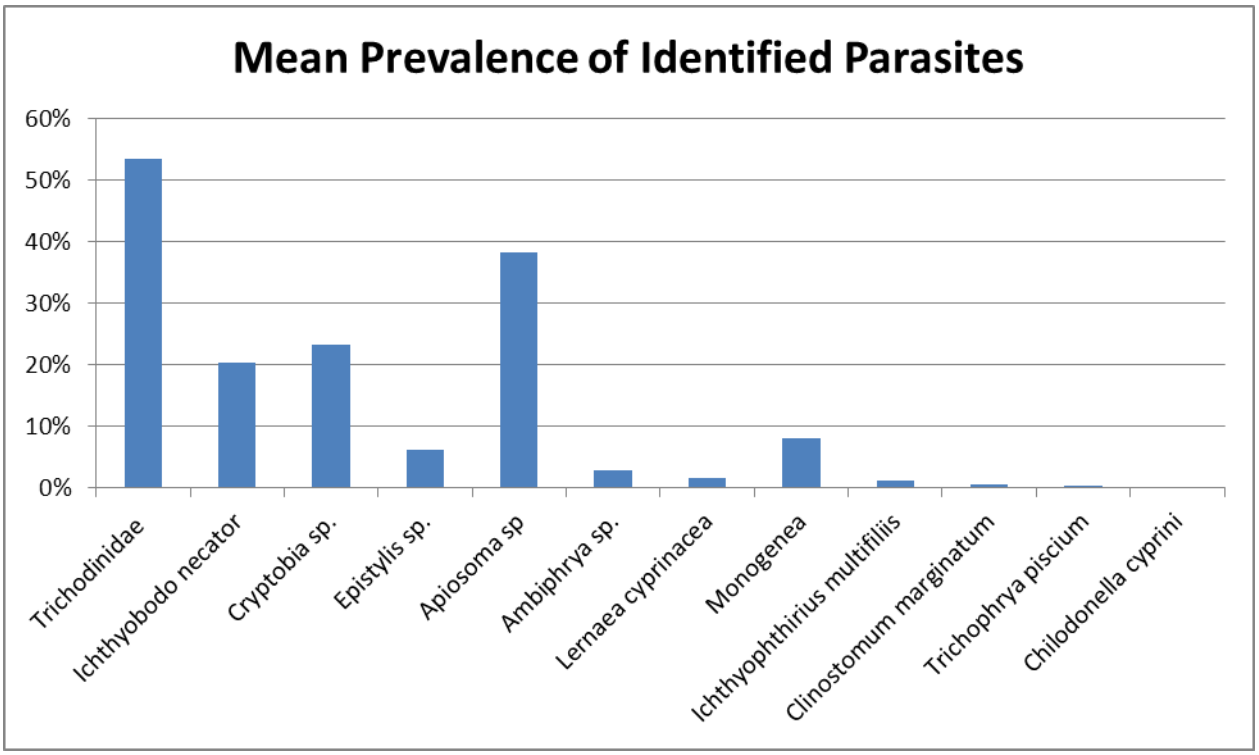


Figure 1. Mean prevalence of different parasite groups during a 2006 to 2008 baseline fish health study for the Rio Grande silvery minnow within the middle section of the Rio Grande.

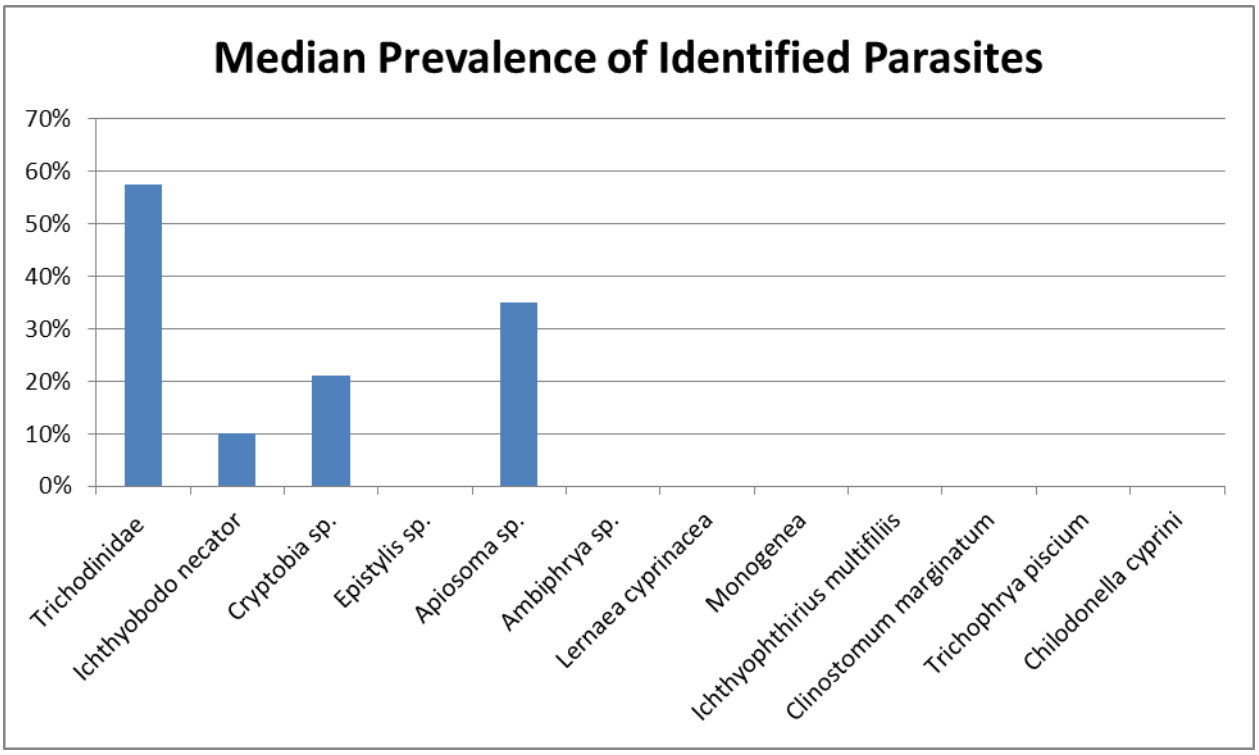


Figure 2. Median prevalence of different parasite groups during a 2006 to 2008 baseline fish health study for the Rio Grande silvery minnow within the middle section of the Rio Grande.

Table 1. Samples collected during a 2006 to 2008 baseline fish health study for the Rio Grande silvery minnow within the middle section of the Rio Grande.

Location	Site #	Collection Date	Fish sample number for each test		
			Parasitology	Bacteriology	Virology
San Antonio	6	18 July 2006	40	40	40
La Joya	5	19 July 2006	30	45	45
Los Lunas	4	20 July 2006	30	60	60
Los Padillas	3	25 July 2006	14	14	14
Alameda	2	26 July 2006	30	60	60
Bernalillo	1	27 July 2006	30	60	60
Bernalillo	1	11 Oct 2006	30	60	60
Alameda	2	12 Oct 2006	30	60	60
Los Lunas	4	16 Oct 2006	30	60	55
Los Padillas	3	17 Oct 2006	30	33	33
La Joya	5	18 Oct 2006	30	54	54
San Antonio	6	19 Oct 2006	-[a]	-[a]	-[a]
Los Padillas	3	23 Jan 2007	30	42	42
Alameda	2	24 Jan 2007	17	17	17
Bernalillo	1	25 Jan 2007	-[a]	-[a]	-[a]

(continued)

Table 1. continued

Location	Site #	Collection Date	Fish sample number for each test		
			Parasitology	Bacteriology	Virology
San Antonio	6	30 Jan 2007	30	30	30
La Joya	5	31 Jan 2007	30	60	60
Los Lunas	4	1 Feb 2007	30	60	60
San Antonio	6	17 Apr 2007	-[a]	-[a]	-[a]
La Joya	5	18 Apr 2007	18	18	18
Los Lunas	4	19 Apr 2007	18	18	18
Los Padillas	3	24 Apr 2007	17	17	17
Alameda	2	25 Apr 2007	30	31	31
Bernalillo	1	26 Apr 2007	16	16	16
San Antonio	6	23 Oct 2007	15	15	15
La Joya	5	24 Oct 2007	21	21	21
Los Lunas	4	25 Oct 2007	30	60	60
Los Padillas	3	29 Oct2007	30	30	30
Alameda	2	30 Oct 2007	30	59	59
Bernalillo	1	31 Oct 2007	30	60	60
San Antonio	6	22 Jan 2008	30	35	35

(continued)

Table 1. continued

Location	Site #	Collection Date	Fish sample number for each test		
			Parasitology	Bacteriology	Virology
La Joya	5	23 Jan 2008	30	37	37
Los Lunas	4	24 Jan 2008	25	55	55
Los Padillas	3	28 Jan 2008	30	60	60
Alameda	2	29 Jan 2008	30	60	60
Bernalillo	1	30 Jan 2008	30	60	60
Los Lunas	4	8 Apr 2008	30	60	60
San Antonio	6	9 Apr 2008	13	13	13
La Joya	5	10 Apr 2008	-[a]	-[a]	-[a]
Los Padillas	3	14 Apr 2008	30	60	60
Alameda	2	15 Apr 2008	30	60	60
Bernalillo	1	16 Apr 2008	30	52	52
San Antonio	6	8 July 2008	30	60	60
La Joya	5	9 July 2008	30	50	50
Los Lunas	4	10 July 2008	30	60	60
Los Padillas	3	14 July 2008	17	60	60
Alameda	2	15 July 2008	30	55	55
Bernalillo	1	16 July 2008	30	60	60

[a] No samples collected

Table 2. The mean prevalence ± s.e.m. of the four most common parasites for each sampling site throughout the entire study.

Sample Site	Trichodinidae	*Icthyobodo necator*	*Cryptobia* sp.	*Apiosoma* sp.
Bernalillo	51.31 ± 6.29	19.34 ± 5.31	21.20 ± 5.15	42.97 ± 5.95
Alameda	63.01 ± 3.85	13.43 ± 5.00	23.90 ± 4.70	30.60 ± 5.62
Los Padillas	61.16 ± 3.97	20.89 ± 5.72	21.29 ± 5.48	42.79 ± 7.63
Los Lunas	48.39 ± 6.43	20.44 ± 3.98	29.21 ± 4.60	42.16 ± 5.69
La Joya	48.24 ± 6.21	19.83 ± 4.08	26.88 ± 6.57	37.44 ± 5.88
San Antonio	46.57 ± 7.33	33.13 ± 8.27	15.85 ± 3.53	32.24 ± 3.96

Table 3. Correlations between parasites and bacteria observations for each sampling period and site. Rio Grande sampling site identifications are as follows: Bernalillo (Site 1), Alameda (Site 2), Los Padillas (Site 3), Los Lunas (Site 4), La Joya (Site 5), and San Antonio (Site 6).

Sampling Period	Site Numbers with the Highest Correlation		
	Bacteria & Parasites	Parasites Only	Bacteria Only
July 2006	1, 2, 4, 5	3, 6	-[a]
October 2006[b]	-[a]	2, 5	1, 3, 4
January 2007[c]	5	2, 4, 6	3
April 2007[b]	-[a]	1, 2, 3, 4, 5	-[a]
October 2007	1	2, 3, 4, 5, 6	-[a]
January 2008	-[a]	1, 2, 3, 6	4, 5
April 2008[d]	-[a]	1, 2, 3, 4, 6	-[a]
July 2008	3, 5	4, 6	1, 2

[a] No sites with a higher correlation in this category.

[b] No samples collected from San Antonio – Site 6

[c] No samples collected from Bernalillo – Site 1

[d] No samples collected from La Joya – Site 5

Table 4. Mean percentage of Rio Grande silvery minnows observed with parasites and bacteria for each site and sampling period.

Sampling Period	Bernalillo (Site 1)	Alameda (Site 2)	Los Padillas (Site 3)	Los Lunas (Site 4)	La Joya (Site 5)	San Antonio (Site 6)
	Parasites/ Bacteria	Parasites/ Bacteria	Parasites/ Bacteria	Parasites/ Bacteria	Parasites/ Bacteria	Parasites/ Bacteria
July 2006	93/72	90/71	86/36	70/87	70/69	80/40
October 2006	13/30	40/25	47/94	20/50	63/43	-[a]
January 2007	-[a]	41/24	7/29	83/18	87/40	70/10
April 2007	81/25	80/10	94/12	100/22	94/28	-[a]
October 2007	73/37	60/31	50/33	87/3	48/10	60/13
January 2008	97/17	100/8	100/7	28/64	37/49	63/31
April 2008	96/10	90/10	93/15	87/13	-[a]	92/0
July 2008	10/93	33/93	71/97	97/63	83/72	100/40

[a] No samples collected.

Appendix 5A - Parasitology Records

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-58	WJR08-818	Bernalillo	1	July 16, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1				
2				
3				
4			2 Costia 1 Crpytobia	
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16			2 Apiosoma	
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29			2 Trichodinella	
30				

Notes: Coordinate=UTM/NAD83 E=358416 =3909903

Fish looked in excellent condition. Light mucous, **Parasite load extremely light.**

30 fish total for parasite search

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-58	WJR08-818	Bernalillo	1	July 16, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-57	WJR08-817	Alameda	2	July 15, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			2 Trichodina	
2			7 Cryptobia 5 Trichodina	
3				
4				
5				
6			5 Cryptobia	
7			2 Cryptobia	
8				
9				
10				
11			100+ Cryptobia, 10 Trichodina	10 Crytobia
12				
13				
14				
15				
16			10 Trichodina	
17				
18				
19			5 Cryptobia	
20				
21			2 Trichodina	
22				
23				
24			3 Trichodina	1 Trichodina
25				
26				
27				
28				
29			2 Trichodina, 3 Apiosoma	
30				

Notes: Coordinates UTM 135 NAD 83 E=351978 N=3897104

Gills had lite to moderate mucous. Fish parasite load lite.

Fish appeared to be in good condition.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-57	WJR08-817	Alameda	2	July 15, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-56	WJR08-816	Los Padillas	3	July 14, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1				
2			4 Trichodina, 3 Cryptobia	4 Apiosoma
3			19 Apiosoma, 2 Trichodina	
4			25 Apiosoma, 2 Trichodina	2 Trichodina
5			16 Trichodina, 4 Apiosoma	
6			13 Trichodina	
7			2 Trichodinella	3 Trichodina
8				
9			20 Trichodina	
10				
11				
12			2 Apiosoma	
13				
14			8 Apiosoma	
15			4 Trichodina, 1 Apiosoma, 1 Ambiphrya	
16			41 Apiosoma, 2 Trichodina	
17			9 Apiosoma	
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes: Coordinates (NAD83 UTM 139) E+ 345743 N+ 3871306

Fish not surviving transport and in extremely poor condition.

17 fish total for parasite search

Gills had moderate to heavy mucous build up.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-56	WJR08-816	Los Padillas	3	July 14, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-55	WJR08-815	Los Lunas	4	July 10, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			6 trichodina, 3 cryptobia	
2			1 cryptobia, 1 trichodina	
3			1 apiosoma	1 trichodina
4			1 trichodina	
5			N/A	
6			40 trichodina, 5 apiosoma	
7			2 apiosoma	
8			13 cryptobia, 7 apiosoma	
9			15 trichodina, 5 apiosoma	
10			1 epistylis, 11 costia, 3 cryptobia, 2 trichodina, 16 apiosoma	
11			11 trichodina	
12			5 trichodina	
13			14 trichodina, 7 apiosoma, 5 costia	
14			10 trichodina	
15			14 trichodina, 1 costia	
16			1 trichodina	1 monogenetic trematode
17			3 trichodina, 1 apiosoma	
18			12 trichodina	
19			28 trichodina, 3 apiosoma	
20			16 apiosoma, 1 trichodina	
21			16 trichodina, 5 apiosoma	
22			6 trichodina, 3 apiosoma	
23			73 apiosoma, 16 epistylis	
24			4 trichodina, 3 apiosoma	
25			5 trichodina, 1 apiosoma, 1 cryptobia	
26			77 trichodina, 1 Ichthyophthirius, 2 trichodonella, 1 apiosoma	
27			21 trichodina, 11 epistylis, 2 apiosoma	
28			3 trichodina	
29			15 trichodina, 6 apiosoma	
30			1 apiosoma	

Notes:

Coordinates E=343322 N=3854354 NAD83 UTM 15S

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-55	WJR08-815	Los Lunas	4	July 10, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-54	WJR08-814	La Joya/Middle Rio Grande	5	July 9, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			8 costia	
2			10 cryptobia, 1 Ichthyophthirius	
3			N/A	
4			2 Ichthyophthirius, 1 cryptobia, 1 trichodina	
5			5 trichodina, 1 trichodonella	
6			3 apiosoma, 1 cryptobia	
7			N/A	
8			1 trichodonella, 6 trichodina, 5 apiosoma, 1 cryptobia, 1 monogene	
9			2 trichodonella, 1 monogene	
10			2 trichodina	
11			20 cryptobia, 1 apiosoma, 1 trichodina	
12			4 trichodina, 1 Ichtyhophthirius, 15 cryptobia, 1 apiosoma	
13			3 trichodonella, 1 apiosoma	
14			2 trichodina, 1 apiosoma	
15			20 trichodina, 1 apiosoma	
16			2 trichodina, 2 trichodonella	1 apiosoma
17			11 trichodina, 1 apiosoma	
18			N/A	
19			1 Ichthyopthirius, 1 trichodonella	
20			N/A	
21			31 trichodina	
22			4 trichodina	
23			10 trichodina, 1 apiosoma	
24			5 trichodina, 1 apiosoma, 1 costia	2 costia
25			N/A	
26			1 cryptobia, 1 trichodina	
27			1 apiosoma	
28			100+ costia, 2 trichodina	
29			3 trichodina, 3 trichodonella, 2 cryptobia	
30			2 epistylis, 3 trichodina	

Notes: Very clubbed gills and lots of mucus.

Location = UTM 135 NAD83 E=329757 N=3797515

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-54	WJR08-814	La Joya/Middle Rio Grande	5	July 9, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
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59				
60				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-53	WJR08-813	San Antonio	6	July 8, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			1 apiosoma, 2 trichodina	
2			5 trichodina	
3			1 apiosoma, 3 trichodina	
4			12 trichodina	
5			1 monogenetic trematode, 2 trichodina	
6			26 cryptobia, 10 trichodina	
7			14 apiosoma, 1 costia	1 costia
8			40 apiosoma	
9		6 trichodina, 3 cryptobia, 2 trichodonella, 1 costia		
10		7 apiosoma, 5 trichodina, 3 trichodonella		1 apiosoma
11			2 trichodonella, 1 cryptobia, 1 costia	
12			5 epistylis	
13			1 trichodina, 1 cryptobia	
14			1 apiosoma, 2 cryptobia	
15			7 apiosoma, 1 costia, 1 trichodina	
16			3 trichodina, 2 cryptobia	
17			2 trichodina, 100+ cryptobia	
18			49 trichodina	
19			5 trichodina	
20			6 trichodina	
21			12 cryptobia, 1 apiosoma	1 costia
22			6 cryptobia, 1 Ichthyophthirius	
23			1 ambiphrya, 1 trichodina	
24			3 apiosoma, 4 trichodina	
25			1 cyryptobia	1 costia
26			1 monogenetic trematode, 2 costia	
27			5 epistylis, 5 trichodina, 1 apiosoma	
28			7 apiosoma	
29			2 cryptobia, 3 trichodina	
30		5 apiosoma, 6 trichodina, 4 cryptobia, 1 Ichthyophthirius		

Notes: Clubbed gills.

Coordinates: NAD 83 UTM E=328934 N=3750089

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-53	WJR08-813	San Antonio	6	July 8, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-41		Middle Rio Grande at Bernalillo	1	April 16, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			4 trichodinella, 1 trichodina	-
2			1 trichodinella, 5 trichodina	-
3			1 apiosoma	-
4			11 trichodinella, 3 apiosoma, 7 trichodina	3 apiosoma
5			100+ trichodinella	-
6			7 trichodinella, 5 trichodina, 1 apiosoma	-
7			7 trichodinella, 1 trichodina	1 trichodina
8			1 trichodina	1 monogenetic trematode, 1 apiosoma
9			7 epistylis, 5 trichodina	1 trichodina
10			1 trichodina	1 trichodina
11			12 trichodinella	-
12			5 trichodinella, 3 trichodina, 1 apiosoma	1 trichodina
13			6 trichodinella, 3 trichodina	2 trichodina
14			12 apiosoma, 6 trichodina, 1 Ick, 1 trichodinella	1 trichodina, 1 apiosoma
15			2 trichodina	-
16			5 trichodinella	2 apiosoma
17			7 trichodina, 1 trichodinella	-
18			6 trichodina, 1 trichodinella	-
19			2 apiosoma, 7 trichodinella	-
20			-	-
21			3 trichodina, 1 trichodinella, 41 apiosoma	-
22			21 trichodina, 5 apiosoma, 100+ trichodinella, 3 epistylis	-
23			7 trichodinella, 1 apiosoma, 3 trichodina	-
24			5 trichodinella, 3 trichodina	-
25			5 apiosoma, 3 trichodina	-
26			1 apiosoma, 47 trichodina, 37 trichodinella	1 apiosoma, 1 trichodina
27			4 apiosoma, 4 trichodinella	-
28			2 trichodinella	-
29			1 costia, 1 trichodina, 1 apiosoma	1 trichodina
30			1 trichodinella, 9 apisoma	-

Notes: Mucus and clubbed gills. 52 fish collected.

Ick = *Ichthyophthirius multifiliis*

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-41		Middle Rio Grande at Bernalillo	1	April 16, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
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33				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-40	07-30	Alameda	2	April 15, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			-	2 monogenetic trematode
2			3 trichodinella, 13 trichodina	1 trichodinella
3			3 trichodina, 13 trichodinella	1 trichodinella
4			1 trichodina, 1 trichodinella	1 trichodina
5			1 monogene, 15 trichodina, 15 trichodinella	2 trichodina
6			-	2 trichodina
7			17 trichodinella, 8 trichodina	-
8			8 trichodinella	-
9			5 costia, 1 trichodinella, 8 trichodina, 17 cryptobia	-
10			1 trichodina	-
11			2 trichodina	-
12			2 trichodinella	-
13			5 trichodinella, 1 trichodina	1 trichodina
14			100+ trichodinella, 1 trichodina, 1 apiosoma	1 trichodina
15			2 trichodinella	-
16			15 trichodinella	3 monogenetic trematodes
17			9 trichodinella	-
18			-	-
19			4 trichodinella	-
20			3 trichodinella	-
21			-	1 apiosoma
22			1 trichodina	-
23			-	2 monogenetic trematode
24			1 trichodina	1 trichodina
25			9 trichodina, 6 trichodinella	4 trichodina
26			-	1 monogene, 6 apiosoma, 5 trichodina
27			-	-
28			17 trichodinella, 2 apiosoma	4 monogenetic trematode
29			5 trichodina, 11 trichodinella, 11cryptobia	-
30			-	-

Notes: extremely clubbed gills, heavy mucus loads. 60 fish collected.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-40	07-30	Alameda	2	April 15, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
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40				
41				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-39		Los Padillas	3	April 14, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			2 apiosoma	1 costia
2			-	1 ambiphrya
3			-	-
4			30 trichodinella, 3 trichodina, 1 epistylis	-
5			3 trichodina	-
6			2 costia, 33 trichodinella	-
7			8 trichodinella	-
8			1 trichodina	1 trichodina
9			1 cryptobia, 5 costia, 8 trichodinella	-
10			2 trichodinella	-
11			1 costia, 1 cryptobia	-
12			3 apiosoma, 5 trichodinella	1 costia, 1 monogenetic trematode
13			-	1 apiosoma
14			2 trichodina	4 trichodinella, 10 costia, 1 Ick, 5 cryptobia
15			-	50+ costia, 1 monogenetic trematode
16			1 trichodinella	4 costia
17			22 trichodinella, 1 chilodonilla, 8 trichodina	-
18			100+ trichodinella, 12 costia	2 costia
19			2 cryptobia, 4 costia, 3 trichodina, 8 trichodinella	-
20			5 trichodinella	2 costia
21			1 trichodina	1 trichodina
22			2 trichodina, 2 trichodinella	-
23			1cryptobia, 7 trichodinella	3 trichodina, 1 Ick, 1 costia, 1 apiosoma
24			-	-
25			2 costia	10 costia, 1 epistylis
26			2 costia	3 costia
27			2 costia, 4 cryptobia	3 costia, 1 trichodina
28			4 trichodinella, 6 apiosoma	1 apiosoma
29			1 apiosoma	-
30			1 trichodinella	2 costia

Notes: Heavy mucus, clubbed gills. 60 fish collected.

Ick = *Ichthyophthyrius multifiliis*

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-39		Los Padillas	3	April 14, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-37	WJR08-727	San Antonio	#6	April 9, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			clean	1 costia
2	orange	left dorsal	100+ trichodinella, 48 costia, 53 cryptobia	2 costia
3			6 trichodinella	1 ambiphrya
4			2 cryptobia	1 trichodina
5			clean	clean
6			3 trichodinella, 82 apiosoma, 1 chilodonella	1 apiosoma
7			1 trichodinella	2 apiosoma
8			1 oodinium like parasite.	1 trichodina
9			6 apiosoma, 3 trichodinella	1 gyrodactylus
10			4 apiosoma, 3 trichodinella	1 Lernaea
11			1 apiosoma, 1 costia	1 gyrodactylus
12			long rod like bacteria clump	2 trichodina
13			1 apiosoma, 15 cryptobia, 1 costia	1 trichodina
14				
15				
16				
17				
18				
19				
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Notes: All fish have clubbed gills, excess mucous and shortened operculums unless stated otherwise.

13 fish received.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-36	WJR08-726	Los Lunas	4	April 8, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			1 apiosoma, 1 trichodinella	1 Trichodina
2			clean	clean
3			7 trichodinella	clean
4			1 trichodinella	clean
5			2 trichodinella	5 apiosoma, 5 trichodina
6			9 cryptobia	1 trichodina, 2 gyrodactylus
7			1 trichodinella, 2 apiosoma	4 trichodina
8			clean	1 trichodinella
9			6 apiosoma	clean
10			clean	clean
11			clean	3 trichodina, 2 gyrodactylus
12			100+ cryptobia	1 trichodina
13			clean	3 costia
14			4 apiosoma, 21 cryptobia, 2 costia	2 apiosoma, 11 trichodina
15			clean	2 gyrodactylus, 1 apiosoma
16			5 cryptobia	8 trichodina, 1 apiosoma, 2gyrodactylus
17			1 apiosoma	clean
18			clean	4 trichodina, 1 costia
19			1 trichodina	11 trichodina, 1 gyrodactylus
20			clean	5 apiosoma
21			2 cryptobia	1 gyrodactylus, 2 apiosoma
22			2 cryptobia	3 trichodina, 1 gyrodactylus
23			clean	clean
24			1 trichodinella, 1 gyrodactylus	clean
25			2 cryptobia	6 trichodina, 4 apiosoma
26			clean	1 gyrodactylus
27			3 apiosoma	4 apiosoma, 3 gyrodactylus, 3trichodina
28			operculum OK, clean	clean
29			1 *Ichthyophthirius multifiliis*	clean
30			1 trichodina	1 trichodina, 1 apiosoma

Notes: Unless stated otherwise, all fish have shortened operculums, clubbed gills and excess mucous.
60 fish collected.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-36	WJR08-726	Los Lunas	4	April 8, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-27	WJR08-715	Bernalillo	1	January 30, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			81 apiosoma	1 apiosoma
2			1 trichodina, 25 apiosoma	2 trichodina, 4 costia
3			16 apiosoma	1 apiosoma
4			3 trichodina,	clean
5			no parasites	2 apiosoma, 1 gyrodactylus
6			2 ambiphrya, 3 apiosoma	1 trichodina, 1 apiosoma
7			5 apiosoma, 1 trichodina	clean
8			15 trichodina, 51 apiosoma	2 apiosoma
9			13 apiosoma, 2 ambiphrya	1 apiosoma
10			clean	1 gyrodactylus
11			4 trichodina	7 apiosoma
12			24 apiosoma, 2 trichodina, 10 trichodinella	10 apiosoma
13			4 trichodina, 1 trichodinella, 1 apiosoma	clean
14			9 apiosoma, 1 trichodina, 2 trichodinella	clean
15			2 trichophrya	1 trichodina
16			14 trichodina	1 apiosoma
17			4 apiosoma, 1 trichodinella	1 apiosoma
18			clean	3 apiosoma
19			3 trichodina, 1 apiosoma	1 trichodina
20			4 apiosoma	1 gyrodactylus
21			no parasites	clean
22			2 trichodina, 3 apiosoma	clean
23			9 apiosoma, 6 trichodina, 1 gyrodactylus	2 apiosoma
24			1 trichodina	1 colony of epistylis
25			3 apiosoma, 1 trichodina	clean
26			1 chilodonella, 1 apiosoma	clean
27			17 apiosoma, 1 trichodinella, 2 trichodina	clean
28			8 apiosoma	clean
29			60 apiosoma,	clean
30			1 trichodina, 2 apiosoma	clean

Notes: All sixty fish from case #s 25, 26, 27 had shortened operculums. All sixty fish collected in this case had clubbed gills and excess mucous.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-27	WJR08-715	Bernalillo	1	January 30, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-26	WJR08-714	Alameda	2	January 29, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			1 trichodina, excess mucous	1 epistylis colony, 2 costia
2			10 trichodina	clean
3			1 gyrodactylus	10 trichodina
4			1 trichodina, 6 apiosoma	1 gyrodactylus, 1 apiosoma,1 trichodina
5			no parasites	1 colony of epistylis
6			1 trichodina	clean
7			13 apiosoma,	clean
8			5 apiosoma	clean
9			6 trichodinella	clean
10			3 trichodina, 1 apiosoma	1 apiosoma
11			1 trichodina 3 apiosoma	clean
12			1 apiosoma	clean
13			1 *Ichthyophthirius multifiliis* , 2 trichodina	1 gyrodactylus
14			1 trichodina, 17 apiosoma, 2 ambiphrya	clean
15			1 apiosoma, 2 trichodina	clean
16			8 apiosoma	1 gyrodactylus
17			2 trichodina	clean
18			2 trichodina, 1 apiosoma	clean
19			6 apiosoma, 1 trichodina	clean
20			6 trichodina, 1 ambiphrya, 57 apiosoma	clean
21			13 apiosoma,	clean
22			3 apiosoma	clean
23			13 apiosoma	clean
24			2 apiosoma, 1 trichodina	clean
25			2 apiosoma	clean
26			5 trichodinella, 13 apiosoma, 1 trichodina	1 apiosoma
27			2 trichodinella, 3 apiosoma	clean
28			1 trichodina, 1 apiosoma, clubbed, mucous ok	2 trichodina, 1 apiosoma
29			1 trichodina	clean
30			2 apiosoma	4 trichodina

Notes: All fish had clubbed gills and excess mucous unless otherwise noted. 60 fish total collected all had shortened operculums.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-26	WJR08-714	Alameda	2	January 29, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-25	WJR08-710	Los Padillas	3	January 28, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			21 apiosoma, 5 trichodinella	clean
2			2 trichodina	clean
3			54 apiosoma, 1 trichodina	clean
4			150+ apiosoma	1 gyrodactylus
5			5 apiosoma	6 apiosoma
6			76 apiosoma, 1 trichophrya	clean
7			12 apiosoma, 3 trichodina	1 gyrodactylus, 2 apiosoma
8			16 apiosoma, 2 trichodina	8 apiosoma, 2 trichodinella
9			5 apiosoma,	clean
10			7 trichodina, 15 apiosoma	clean
11			1 trichophrya, 1 trichodina, 1 apiosoma	clean
12			28 apiosoma	clean
13			11 trichodina, 9 apiosoma	clean
14			clean of parasites	1 gyrodactylus
15			116 apiosoma, 2 trichodina	1 trichodina, 1 gyrodactylus
16			5 apiosoma	clean
17			56 apiosoma	clean
18			18 apiosoma, 9 trichodinella/trichodina	clean
19			100 apiosoma, 1 trichodinella	clean
20			2 apiosoma	1 apiosoma
21			66 apiosoma	clean
22			55 apiosoma, 3 trichodina	1 gyrodactylus
23			1 epistylis colony, 15 apiosoma	clean
24			44 apiosoma, 2 trichodina	clean
25			clean	7 apiosoma
26			3 colonies of epistylis, 2 trichodina, 52 apiosoma	3 trichodina
27			4 apiosoma	1 trichodina
28			5 apiosoma,	clean
29			5 apiosoma, 2 trichodina	1 apiosoma
30			23 apiosoma, 3 trichodina	clean

Notes:

All of the first 30 fish had clubbed gills and excess mucous Fish #30-liver bright orange.

60 fish sampled, no fish were tagged.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-25	WJR08-710	Los Padillas	3	January 28, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-24	WJR 08-705	Los Lunas	4	January 24, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			clean	
2			Costia (5)	
3			clean	
4			clean	
5			clean	
6			clean	
7			Apiosoma (3)	
8			Trichodina (4)	
9			clean	
10			clean	
11			Apiosoma (5)	
12			clean	
13			Apiosoma (4)	
14			clean	
15			clean	
16			Apiosoma (5)	
17			clean	
18			clean	
19			clean	
20			Trichodina (3)	
21			clean	
22			clean	
23			clean	
24			clean	
25			clean	
26				
27				
28				
29				
30				

55 fish total. (Due to miscount in field initial count was thought to be 93 for both histo and fish health)

Virology and Bacteriology were taken first for a total of 55 fish. Only 25 fish were examined for parasites.

Gills appeared to be in over all good condition. Light to moderate mucous.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-24	WJR 08-705	Los Lunas	4	January 24, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
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37				
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41				
42				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-23	WJR 08-704-08-23	La Joya	5	January 23, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			Apiosoma, Costia, Gyrodactylus	
2			Costia	
3			Trichodina (1), Apiosoma (2), Costia	
4			Costia (5)	
5			Costia (5)	
6			clean	Gyrodactylus (2)
7			clean	
8	pink	left dorsal	clean	Gyrodactylus (1)
9			clean	
10			Apiosoma (8)	
11			clean	
12	pink	left dorsal	clean	
13			clean	
14			clean	
15	pink	left dorsal	clean	
16			clean	
17			clean	
18			clean	
19			clean	
20			clean	
21			Apiosoma (5)	
22			clean	
23			Apiosoma (10)	
24			clean	
25			clean	
26			Trichodina (3) Apiosoma (5)	
27			clean	
28			clean	
29			clean	
30			clean	

Notes: 37 fish total. Site #5 gills clubbed, light to moderate mucous.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-23	WJR 08-704-08-23	La Joya	5	January 23, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
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41				
42				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-22	08-22-01-32	San Antonio	6	January 22, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1	pink	left dorsal	Trichodina (3) Costia (5)	
2			Trichodina (2) Costia (10)	
3			Trichodina (5) Costia (10)	
4				
5			Costia (10)	
6	pink	left dorsal	clean	
7			Trichodinella (3) Costia(4)	
8	pink	left dorsal	Apiosoma (5)	
9			Apiosoma (6)	
10			Apiosoma (5) Trichodina (2)	
11			clean	Trichodina (2)
12	pink	left dorsal	clean	
13			Costia(5)	
14			Apiosoma (2)	
15			Trichodina (5)	Trichodina (2)
16			clean	
17			Trichodina (3)	
18			clean	
19			clean	
20	pink	left dorsal	Trichodina (4) Costia	
21	pink	left dorsal	Apiosoma (10)	
22			clean	
23			clean	
24			Trichodina (3)	
25	pink	left dorsal	Apiosoma (5)	
26			Apiosoma (3)	
27			clean	
28	pink	left dorsal	clean	
29			Trichodina(3) Costia(5)	
30			clean	

Notes: 35 Fish total collected, 30 checked for parasites. Gill on site 6 clubbed, mucous on gills was moderate to heavy.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-22		San Antonio	6	January 22, 2008

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33	Pink	Left dorsal		
34				
35				
36			clean	
37				
38				
39				
40				
41			clean	
42			clean	
43				
44				
45				
46			clean	
47				
48			clean	
49			clean	
50				
51				
52			clean	
53			clean	
54				
55				
56				
57			clean	
58			clean	
59				
60			clean	

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-10	WJR07-890	Bernillio	1	October 31, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			Neg	1 Apiosoma
2			1 Cryptobia	Neg
3			Neg	Neg
4			Neg	Neg
5			Neg	Neg
6			Neg	1 Apiosoma
7			Neg	1 Apiosoma
8			4 Trich	1 Apiosoma
9			4 Trich, 11 Cryptobia	Neg
10			Neg	Neg
11			1 Trich	1 Trich
12			6 Trich, 5 Cryp	Neg
13			2 Trich	Neg
14			1 Trich	Neg
15			Neg	Neg
16			Neg	Neg
17			6 Trich, 3 Cryp	Neg
18			1 Trich	Neg
19			6 Cryptobia	Neg
20			3 Trich	2 Apiosoma
21			2 Trich, 1 Cryp	5 Trich
22			1 Trich, 1 Apiosoma	1 Trich
23			1 Trich	Neg
24			3 Trich	1 Trich
25			Neg	Neg
26			2 Cryp	Neg
27			Neg	1 Apiosoma
28			5 Trich	1 Trich
29			4 Trich	Neg
30			Neg	Neg

Notes: 30 fish external parasites, 58 fish total for viral and bacteria samples

Trich = Trichodinidae, Cryp = Cryptobia

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-10	WJR07-890	Bernillio	1	October 31, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
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51				
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53				
54				
55				
56				
57				
58				
59				
60				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-09	SMC07-88	Alameda	2	October 30, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			2 Trich, 3 Apiosoma, Gyro, 27 Cryp	1 Apiosoma
2			1 Trich , 6 Cryp	Neg
3			Neg	Neg
4			1 Apiosoma	Neg
5			Neg	Neg
6			26 Trich, 2 Apiosoma	Neg
7			6 Trich	Neg
8			Neg	1 Trich
9			5 Trich, 5 Cryp	Neg
10			5 Trich, 5 Cryp	Neg
11			17 Cryp	3 Apiosoma
12			16 Trich	Neg
13			3 Cryp, 1 apiosoma	Neg
14			1 Ich	1 trich
15			8 Trich, 4 Cryp	1 Trich
16			2 Trich	Neg
17			3 Trich	Neg
18			1 Trich	1 Trich
19			Neg	7 Apiosoma
20			2 Trich	Neg
21			5 Trich, 8 Cryp, 2 Apio	3 Apiosoma
22			1 Trich	1 Apiosoma
23			Neg	Neg
24			490 Cryp, 1 Apio	1 Apiosoma
25			Neg	Neg
26			10 Trich, 2 Apio, 3 Cryp	1 Trich, 4 Apiosoma
27			Neg	Neg
28			Neg	2 Trich
29			Neg	2 Trich
30			Neg	Neg

Notes: 30 fish parasites, 59 fish viral and bacteria

Trich = Trichodinidae, Cryp = Cryptobia, Apio = Apiosoma, Gyro = Gyrodactylus.

59 fish total, short one fish

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-09	SMC07-88	Alameda	2	October 30, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes:

Fish #31 had a bent spine - side to side

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-08	WJR07-1029	Los Padillas	3	October 29, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			Neg	1 Yellow grub
2			1 Trichodinidae	4 Apiosoma
3			1 Apiosoma	Neg
4			Neg	1 Apiosoma
5			1 Trichodinidae, 1 Apiosoma	Neg
6			5 Cryptobia, 1 Costia	10 Apiosoma
7			Neg	Neg
8			Neg	Neg
9			Neg	3 Apiosoma
10			Neg	1 Yellow grub, 1 Apiosoma
11			Neg	5 Apiosoma
12			Neg	8 Apiosoma
13			Neg	Neg
14			Neg	Neg
15			Neg	Neg
16			24 Cryptobia	Neg
17			1 Trichodinidae	Neg
18			Neg	1 Trichodinidae
19			Neg	Neg
20			Neg	Neg
21			Neg	Neg
22			Neg	Neg
23			Neg	1 Lernaea
24			Neg	Neg
25			Neg	Neg
26			Neg	Neg
27			8 Cryptobia	1 Lernaea
28			Neg	Neg
29			Neg	Neg
30			Neg	Neg

Notes: 30 fish total all samples -parasites, bacteria, viral

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-07	SRD07-89	Los Lunas	4	October 25, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			120+ cryptobia	clean
2			95 trichodinidae, 20 costia	1 apiosoma
3			78 cryptobia	1 non fish pathogen protozoan
4			1 costia, 1 trichodiniadae	7 non fish pathogen protozoan - picture
5			74 trichodonidae	clean
6*			1 costia	clean
7*			4 trichodonidae, 1 crytpobia	clean
8*			1 trichodina, 11 cryptobia	clean
9*				clean
10*				clean
11*			unk. parasite, 4 trichodinidae	clean
12*			7 trichodinidae	clean
13*				clean
14*			1 trichodinidae	clean
15*			3 parameciums, 13 trichodinidae	clean
16*			9 cryptobia, 3 trichodinidae	clean
17*			227+ trichodinidae	trichodina
18*			3 trichodinidae	clean
19*			1 trichodinidae	clean
20*			3 trichodinidae	clean
21*			3 trichodinidae	clean
22*			7 trichodinidae	clean
23*			1 costia, 1 trichodinidae,1 apiosoma	clean
24*			4 trichodinidae	clean
25*				clean
26*			8 apiosoma, 5 trichodinidae	3 apiosoma
27*			3 trichodinidae	clean
28*			155+ trichodinidae	clean
29*			75 costia, 1 cryptobia,12 trichodinidae	clean
30*			1 trichodina, 1 apiosoma, 2 trichodinidae	Clean

Notes: * = shortened operculum #8 dorso-ventral curved spine. 60 total fish collected.

Started noting operculum deformaties at fish #5. All of the fish gills above had excess of mucous.

All fish above had clubbed gills except fish #s 24 and 26.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-07	SRD07-89	Los Lunas	4	October 25, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes: #s 31-53 & 55-60 all have shortened operculum. #54 had severe spinal deformation (left to right)
No fish were tagged. #54 had normal operculums.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-06	SRD07-88	La Joya	5	October 24, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			4 apiosoma, clubbed, excess mucous	clean
2			clubbed, excess mucous	clean
3			9 cryptobia, clubbed, excess mucous	clean
4			clean	clean
5			clubbed, excess mucous	clean
6			clean	clean
7			clean	clean
8			4 trichodinidae, clubbed, excess mucous	clean
9			2 trichodinidae, 1 apiosoma, clubbed, excess mucous	clean
10			clubbed, excess mucous	clean
11			1 apiosoma, clubbed, excess mucous	clean
12			25 trichodinidae, excess mucous	clean
13			76 trichodinidae, 18 apiosoma, clubbed, excess mucous	clean
14			clubbed, excess mucous	clean
15			clubbed, excess mucous	clean
16			clean	3 yellow grubs
17			excess mucous	clean
18	?sp		clean	clean
19			clubbed, excess mucous	clean
20			67 trichodinidae, 28 costia, excess mucous	clean
21			1 cryptobia, clubbed, excess mucous	clean
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes: #17 shortened head, 21 fish sampled

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
08-05	SRD-07-87	San Antonio	6	October 23, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			68 cryptobia, clubbed, excess mucous	clean
2			2 apiosoma, clubbed, excess mucous	clean
3	pink	left dorsal	clubbed	clean
4			1 trichodinidae, clubbed, excess mucous	clean
5			excess mucous	clean
6			51 trichodinidae, clubbed, excess mucous	clean
7			clean	clean
8			2 apiosoma, excess mucous	clean
9	pink	left dorsal	clubbed, excess mucous	clean
10			clubbed, excess mucous	clean
11			10 trichodinidae, clubbed, excess mucous	clean
12			1 cryptobia, clubbed, excess mucous	clean
13			6 trichodinidae, 3 apiosoma, clubbed, excess mucous	clean
14			1 trichodinidae, 1 apiosoma, excess mucous, pale	clean
15			clubbed, excess mucous	clean
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes: 15 fish

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-36	WJR07-577	Bernalillo	#1	April 26, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1	Green	mid dorsal	100+ apiosoma	2 trichodina, 1 costia
*** 2**			1 apiosoma and a protozoan with three flagella	* 1 gyrodactylus
3			clean	1 costia
4			clean	1 trichodina
5			3 apiosoma	clean
6			40+ apiosoma, 3 trichodina, 20+ cryptobia	1 costia
7	Green	left dorsal	1 ich, 100+ apiosoma	1 costia
8			clean	clean
9			1 apiosoma	1 gyrodactylus
10			1 apiosoma	clean
11			clean	clean
12			1 gyrodactylus	1 gyrodactylus
***(*) 13**			(*) 100+ cryptobia	* 100+ myxobolus like spores
*** 14**	Green	left dorsal	50+ apiosoma, 1 trichodina	1 trichodina
15			clean	clean
(*) 16			(*) 3 ambiphrya, 50+ apiosoma	1 trichodina
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes: 16 fish collected. All fish collected, except #11 and 12, had excess mucous on the gills and they were clubbed. Fish # 12 had clubbed gill but no excess of mucous and # 11 looked normal.

* = picture taken, (*) = video taken. Fish #s 1,2 and 5-9 were gravid.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-35	WJR07-576	Alameda	#2	April 25, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
* 1			* myxobolus like spore	clean
* 2	Green	Left Dorsal	13 apiosoma, 7 trichodina	2 trichodina
3			3 apiosoma	clean
4	Green	Left Dorsal	23 apiosoma, 2 trichodina	clean
5			clean	clean
6			3 apiosoma	clean
7			clean	1 apiosoma
8			clean	1 trichodina
9			clean	1 trichodina
10			1 apiosoma	clean
11			2 epistylis, long rod bacteria, 31+ apiosoma, 11 trichodina	clean
12			3 apiosoma	clean
13	Green	Left Dorsal	1 ambiphrya, 5 apiosoma, 3 trichodina	1 gyrodactylus
14	Green	Left Dorsal	40+ apiosoma, 10+ trichodina	4 trichodina, 1 apiosoma
15	Green	Left Dorsal	1 cryptobia, 3 trichodina, 5 apiosoma	clean
* 16			4 apiosoma, 1 trichodina	30 trichodina, 3 gyrodactylus, *strange trichodina like parasite
17			5 apiosoma	1 gyrodactylus, 1 trichodina
18			1 trichodina	clean
19			3 trichodina	1 trichodina
20			clean	clean
21			3 trichodina	clean
22	Green	Left Dorsal	100+ apiosoma	clean
23			clean	clean
* 24	Green	Left Dorsal	35 apiosoma, * 1 trichodina	2 trichodina
25			1 trichodina, 3 apiosoma	clean
26	Green	Left Dorsal	60+ apiosoma. 20+ trichodina	clean
27			clean	clean
28			clean	clean
29			2 apiosoma	clean
30			clean	clean

Notes: 31 fish collected. 1-16 collected in side channels, 17-30 collected in main channel.

All fish collected had excess mucous on the gills and clubbed gills.

** = picture taken, (*) = video taken.

All fish collected, except 5, 6, 8, 9, 13, 14, 18, 23, and 26-31 were gravid.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-35	WJR07-576	Alameda	#2	April 25, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31	Green	Left Dorsal		
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-34	WJR07-575	Los Padillas	#3	April 24, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1	Orange	Left Dorsal	18 apiosoma, 1 trichodina	40+ costia
2			Clean	1 Trichodina
**3	Orange	Left Dorsal	7 apiosoma	1 apiosoma, 1 cryptobia
(*)4			1 ambiphrya, 10+ apiosoma, 10+ trichodina	clean
5	Orange	Left Dorsal	20+ apiosoma, 100+ trichodina	clean
6			4 trichodina, 1 apiosoma	1 costia
7	Orange	Left Dorsal	50+ apiosoma, 1 trichodina	clean
8	Orange	Left Dorsal	100+ trichodina, 20+ apiosoma	20+ costia, 2 Trichodina
9	Orange	Left Dorsal	6 ambiphrya, 5 trichodina, 8 apiosoma	clean
10	Orange	Left Dorsal	1 chilodonella, 20 trichodina, 2 ambiphrya	1 apiosoma
11	Green	Left Dorsal	20+ apiosoma	petechial hemorrhaging on belly
12			20+ apiosoma, 3 ambiphrya	clean
13	Green	Left Dorsal	20+ apiosoma	petichial hemorrhaging on left side
14	Orange	Left Dorsal	5 trichodina, 13 apiosoma	clean
15			4 trichodina, 8 apiosoma	clean
16	Orange	Left Dorsal	15 trichodina, 5 apiosoma	clean
17			clean	clean
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes: 17 fish collected.

*=picture (*)=video

All fish examined had excess mucous on the gill and they were also clubbed. All fish except #1, 4, 9, and 13 were gravid.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-33	WJR07-5574	Los Lunas	#4	April 19, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			1 trichodinidae	Neg
2			1 apiosoma	27 trichodinidae, 1 gyrodactylus
3			1 trichodinidae	24 trichodinidae, 2 gyrodactylus, left pelvic gone
4			30+ cryptobia	Neg
5			3 apiosoma, 1 cryptobia	12 trichodinidae
6			9 trichodinidae, 50+ cryptobia	1 costia
7			1 trichodinidae, 18 cryptobia	Neg
8			Neg	1 Trich
9			3 cryptobia	Neg
10			1 trichodinidae	2 trichodinidae,1 gyrodactylus, 1 apiosoma
11			Neg	1 trichodinidae, 1 gyrodactylus
12			Neg	3 trichodinidae, 2 gyrodactylus, fins red
13			Neg	1 gyrodactylus, fins red
14			7 trichodinidae	Neg
15			3 trichodinidae, 5 apiosoma, 6 cryptobia	Neg
16			Neg	7 trichodinidae, 2 gyrodactylus
17			3 apiosoma, 5 cryptobia	3 apiosoma, fins red
18			12 trichodinidae, 9 apiosoma	1 trichodinidae
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes: the # 3 fish - left pelvic had deep red lesion, only a few fin rays left

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-33	WJR07-5574	Los Lunas	#4	April 19, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
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56				
57				
58				
59				
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Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-32	WJR07-573	La Joya	#5	April 18, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			1 costia, 5 trichodinidae	2 costia
2	yellow	left of dorsal fin	5 apiosoma, 2 trichodinidae	Neg
3	yellow	left of dorsal fin	12 trichodinidae	1 apiosoma
4	yellow	left of dorsal fin	6 trichodinidae, 2 apiosoma	Neg
5			14 trichodinidae, 29 apiosoma	Neg
6	yellow	left of dorsal fin	29 trichodinidae, 16 apiosoma, 1 ambiphrya	Neg
7			7 trichodinidae, 8 apiosoma	Neg
8	yellow	left of dorsal fin	5 trichodinidae,26 apiosoma	1 apiosoma
9	yellow	left of dorsal fin	50 apiosoma	1 apiosoma
10	yellow	left of dorsal fin	5 trichodinidae, 10 apiosoma, 1 ambiphrya	Neg
11			Neg	Neg
12	yellow	left of dorsal fin	18 apiosoma	1 apiosoma
13			4 trichodinidae, 53 apiosoma	2 apiosoma
14			50 trichodinidae, 22 apiosoma, 1 gyrodactylus	Neg
15			75+ trichodinidae	Neg
16			1 monogene,4 eye spots and 4 hooks	Neg
17			7 trichodinidae, 28 apiosoma	Neg
18			9 trichodinidae, 6 apiosoma	Neg, base of fins red
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-32	WJR07-573	La Joya	#5	April 18, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-21	WJR07-550	Los Lunas	4	February 1, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			clubbed	clean
2			clubbed, 1 apiosoma	clean
3			clubbed, 1 apiosoma	20+ costia
4			clubbed, 4 apiosoma	1 trichodina, 1 gyrodactylus
5			clubbed	clean
6			6 Heteropolaria/epistylis, 5 apiosoma	1 gyrodactylus
7			long rod bacteria, clubbed	clean
8			clubbed, 3 ambiphrya/apiosoma	clean
9			clubbed, 30+ apiosoma	clean
10			4 apiosoma, clubbed	2 cryptobia
11			clubbed, longrod bacteria	clean
12			clubbed, 5 apiosoma	clean
13			4 apiosoma	clean
14			clubbed, 1 trichodina, 10+ apiosoma	1 costia
15			clubbed, 35+ trichodina, 4 apiosoma	clean
16	Red	upper left dorsal	4 apiosoma, 2 trichodina	1 apiosoma, 1 costia
17			40+ apiosoma	clean
18			clubbed, 20+ trichodina, 30 apiosoma	12+ ~~costia~~ or cryptobia - 2 eye spots
19			clubbed, 16 apiosoma	1 apiosoma, 1 trichodina - 2 eye spots
20			3 apiosoma, clubbed	clean
21			clubbed	clean
22			clubbed, 8 apisoma, 1 trichodina	2 ~~costia~~ or cryptobia - 2 eye spots
23			clubbed	clean
24			10 trichodina, 4 apiosoma	80+ cryptobia or ~~costia~~ - 2 eye spots
25			clubbed, 20+ trichodinella, 10 apiosoma	clean
26			clubbed, 1 apiosoma	1 cryptobia or ~~costia~~ - 2 eye spots
27			Clean	10 trichodina, 1 gyrodactylus, 2 epistylis, 100+ costia
28			clubbed, 1 apiosoma	clean
29			34 apiosoma, clubbed	clean
30			clubbed, 1 apiosoma	8 cryptobia or ~~costia~~ - eyespots

Notes: Pictures taken of: #6 Heteropolaria, 2 pictures of apiosoma on #9, picture of apiosoma (on skin scrape), 2 pictures of what I definitely believe as trichodina on #19, 1 picture of epistylis and 1 picture of trichodina on #27.

Total of 60 fish collected.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-21	WJR07-550	Los Lunas	4	February 1, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes: No tags on the last 30 fish. Total of 60 fish collected.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-20	WJR07-549	MRG @ La Joya	5	January 31, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			50+ apiosoma	100+ cryptobia
2	yellow	upper left dorsal	50 + trichodinella, clubbed, 25 apiosoma	2 gryodactylus
3			1 monogene	1 monogene
4	yellow	upper left dorsal	5 apiosoma	1 diatom
5			clean	6 diatoms
6			20+ apiosoma	clean
7	yellow	upper left dorsal	30+ trichodinella, 10+ apiosoma	clean
8	yellow	upper left dorsal	60+ trichodinella, 10+ apiosoma	clean
9	yellow	upper left dorsal	clubbed, 15 trichodinella, 1 costia	clean
10	yellow	upper left dorsal	clean	clean
11	yellow	upper left dorsal	10+ apiosoma, clubbed, interesting diatom	Clean
12	yellow	upper left dorsal	clubbed, 3 apiosoma, 50+ trichodinella	2 trichodinella
13	yellow	upper left dorsal	clubbed, 2 diatoms	clean
14	yellow	upper left dorsal	20+ apiosoma, 10+ trichodinella	clean
15			4 apiosoma, clubbed, interesting diatom	clean
16	yellow	upper left dorsal	clubbed, long rod bacteria, 2 apiosoma	many small bacteria
17	yellow	upper left dorsal	clubbed	clean
18	yellow	upper left dorsal	3 trichodinella, 2 apiosoma	clean
19	yellow	upper left dorsal	10+ apiosoma, clubbed, 1 trichodinella	clean
20	yellow	upper left dorsal	1 trichodinella	clean
21	yellow	upper left dorsal	clubbed, 30+ apiosoma	22 apiosoma
22	yellow	upper left dorsal	clubbed, 3 trichodinella	clean
23	yellow	upper left dorsal	clubbed, 7 trichodinella	8 apiosoma
24	yellow	upper left dorsal	clubbed, 30+ trichodinella, 10+ apiosoma	clean
25			50+ apiosoma, clubbed	1 apiosoma
26	yellow	upper left dorsal	clubbed, 30+ apiosoma, 10+ trichodinella	1 apiosoma
27	yellow	upper left dorsal	4 epistylis/ apiosoma, long rod bacteria, trichodinella	clean
28	yellow	upper left dorsal	clubbed, long rod bacteria, 7 trichodinella	clean
29	yellow	upper left dorsal	clubbed, 25+ trichodinella, 8 apiosoma	clean
30	yellow	upper left dorsal	clubbed, 6 apiosoma, 1 ambiphrya	7 diatoms

Notes: Total of 60 fish collected. Picture of apiosoma on skin #1, Picture of trichodinella on skin #2 Picture of diatom on #11, Picture of epistylis on #27.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-20	WJR07-549	MRG @ La Joya	5	January 31, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32	yellow	upper left dorsal		
33	yellow	upper left dorsal		
34				
35	yellow	upper left dorsal		
36				
37				
38	yellow	upper left dorsal		
39				
40	yellow	upper left dorsal		
41				
42	yellow	upper left dorsal		
43				
44				
45	yellow	upper left dorsal		
46	yellow	upper left dorsal		
47				
48	yellow	upper left dorsal		
49				
50	yellow	upper left dorsal		
51	yellow	upper left dorsal		
52				
53	yellow	upper left dorsal		
54	yellow	upper left dorsal		
55	yellow	upper left dorsal		
56	yellow	upper left dorsal		
57	yellow	upper left dorsal		
58	yellow	upper left dorsal		
59	yellow	upper left dorsal		
60	yellow	upper left dorsal		

Notes: Total of 60 fish collected.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-19	WJR07-548	San Antonio	6	January 30, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			9 epistylis	cryptobia
2			clubbed, diatom	clean
3		2 trichodina, clubbed, 1 apiosoma, 4 ambiphrya		clean
4			epistylis	trichodinella, epistylis
5			clean	epistylis
6			diatom, clubbed	diatom
7			3 epistylis, clubbed, diatoms	10+ cryptobia
8			5 epistylis	clean
9			epistylis, clubbed	diatoms
10			epistylis, clubbed	diatoms
11			diatom, clubbed	diatoms
12			clubbed	diatoms
13			clubbed	1 costia, epistylis
14			epistylis, clubbed	clean
15			epistylis, clubbed	diatoms
16			clubbed, 10+ ambiphrya	diatoms
17			clubbed	clean
18			30+ trichodinella or trichodina	diatoms
19			clubbed, 30+ ambiphrya	clean
20			40+ ambiphrya	diatoms
21			5 ambiphrya	clean
22			clubbed	clean
23			clubbed, 1 ambiphrya	1 ambiphrya, 1 crytobia, 1 epistylis
24			clubbed, 1 ambiphrya, 5 apiosoma	diatoms
25			clubbed	diatoms
26			clubbed	clean
27			clubbed, diatom, 5 apiosoma	clean
28			clubbed	clean
29		1 trichodinella, 20+ apiosoma, < 5 ambiphrya		diatoms
30			40+ apiosoma	clean

Notes: Only 30 fish collected, No tagged fish.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-18	WJR07-542	Alameda	2	January 24, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1	N/A	N/A	10 Epistylis, 5 trichodina	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	Green	left dorsal	*	N/A
5	Green	left dorsal	*	N/A
6	N/A	N/A	10 Epistylis	N/A
7	N/A	N/A	10 Epistylis, 6 trichodina	N/A
8	N/A	N/A	N/A	N/A
9	Green	left dorsal	N/A	N/A
10	Green	left dorsal	4 trichodina	N/A
11	Green	left dorsal	N/A	N/A
12	Green	left dorsal	N/A	N/A
13	Green	left dorsal	7 trichodina	N/A
14	Green	left dorsal	N/A	N/A
15	Green	left dorsal	6 Costia, 3 trichodina	N/A
16	N/A	N/A	5 trichodina	N/A
17	N/A	N/A	N/A	N/A
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes: * indicates bacterial gill disease. Gills were full of mucus.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-17	WJR07-541	Los Padillas, NM	3	January 23, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A
3	Orange	left dorsal	N/A	N/A
4	N/A	N/A	trichodinidae -3 trichodenella poss.	N/A
5	N/A	N/A	N/A	N/A
6	N/A	N/A	N/A	N/A
7	N/A	N/A	10 Epistylis	N/A
8	N/A	N/A	N/A	N/A
9	Red	left dorsal	N/A	N/A
10	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A
13	Red	left dorsal	N/A	N/A
14	Red	left dorsal	N/A	N/A
15	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A
19	Red	left dorsal	N/A	N/A
20	Red	left dorsal	N/A	N/A
21	N/A	N/A	N/A	N/A
22	N/A	N/A	N/A	N/A
23	Red	left dorsal	N/A	N/A
24	Red	left dorsal	N/A	N/A
25	N/A	N/A	N/A	N/A
26	Red	left dorsal	N/A	N/A
27	Red	left dorsal	N/A	N/A
28	Red	left dorsal	N/A	N/A
29	Red	left dorsal	N/A	N/A
30	Red	left dorsal	N/A	N/A

Notes: Gills were full of mucus.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-17	WJR07-541	Los Padillas, NM	3	January 23, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31	N/A	N/A	N/A	N/A
32	N/A	N/A	N/A	N/A
33	N/A	N/A	N/A	N/A
34	N/A	N/A	N/A	N/A
35	N/A	N/A	N/A	N/A
36	N/A	N/A	N/A	N/A
37	N/A	N/A	N/A	N/A
38	N/A	N/A	N/A	N/A
39	N/A	N/A	N/A	N/A
40	N/A	N/A	N/A	N/A
41	N/A	N/A	N/A	N/A
42	N/A	N/A	N/A	N/A
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-05	WJR06-496	La Joya	5	October 18, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			3 cryptobia	Negative for external parasites
2			6 cryptobia	Neg
3			3 cryptobia	Neg
4	yellow	left side of dorsal fin	Neg	Neg
5			9 cryptobia	Neg
6			1 cryptobia	Neg, red color on fin bases/caudal fin
7			6 cryptobia, 1 Trichodinidae	Neg
8			Neg	Neg, red skin/fins
9			2 cryptobia	Neg
10			14 cryptobia	Neg
11			DOA, 10 Trichodinidae	Neg
12			14 cryptobia	Neg
13			6 cryptobia	Neg
14			3 cryptobia	Neg
15			2 cryptobia, 2 Trichodinidae	Neg
16			Neg	Neg
17			2 cryptobia, 1 Trichodinidae	Neg
18			Neg	Neg, red spots on skin
19			Neg	Neg, red on fin bases
20			Neg	Neg
21	yellow	left side of dorsal fin	DOA, 1 cryptobia, 1Trichodinidae	Neg
22			Neg	Neg
23			Neg	Neg
24			Neg	Neg
25			Neg	Neg
26			1 Trichodinidae	Neg, red on skin/fins
27			3 cryptobia, 1 Trichodinidae	Neg
28			2 cryptobia	Neg
29			8 cryptobia	Neg
30			Neg	Neg

Notes: Total fish sampled = 54, Parasites = 30 fish, Viral = 54 fish

DOA = dead on arrival

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-05	WJR06-496	La Joya	5	October 18, 2007

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				Skin/fins red colored
32				Base of fins red
33				
34				
35				
36				
37				
38				
39				
40	yellow	left side of dorsal fin		
41				
42			DOA	Skin red
43			DOA	Nose/skin red
44				
45				
46	yellow	left side of dorsal fin		
47	yellow	left side of dorsal fin		
48	yellow	left side of dorsal fin		
49			DOA	
50			DOA	
51			DOA	
52			DOA	
53	yellow	left side of dorsal fin	DOA	
54			DOA, Last fish examined	
55				
56				
57				
58				
59				
60				

Notes: Total fish sampled = 54, Parasites = 30 fish, Viral = 54 fish

DOA = dead on arrival

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-04	WJR06-495	Los Padillas	3	October 17, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			Negative (Neg)	Negative (Neg)
2			DOA, 5 apiosoma, 2 cryptobia	Neg, head/nose red colored
3			DOA, Neg	Neg, red nose/fin bases
4			DOA	Neg, red nose/fin bases
5			DOA, 1 Trichodinidae	Neg.
6			DOA, 1 Trichodinidae	Neg
7			DOA, 10 cryptobia, 7 Tichodinidae	Neg
8			DOA, Neg	Neg
9			50+ cryptobia	5 costia
10			Neg	Neg
11			DOA, Neg	Neg, very red body
12			DOA, Neg	Neg, very red body
13	orange	Left side of dorsal fin	DOA, Neg	Neg, fin bases red
14			Neg	Neg
15			25 cryptobia	Neg
16	orange	Left side of dorsal fin	DOA, Neg	Neg
17			Neg	Neg
18			1 cryptobia	Neg
19			Neg	Neg
20			1 cryptobia	Neg
21			DOA, 6Trichodinidae, 3cryptobia	Neg, base of fins red
22			DOA, 25 cryptobia	Neg, base of fins red
23			Neg	Neg, red all over body
24	orange	Left side of dorsal fin	Neg	Neg
25			Neg	Neg
26	orange	Left side of dorsal fin	1 cryptobia	Neg
27			3 cryptobia, 3 Trichodinidae	Neg
28			20+cryptobia,7Trichodinidae, 1epistylis	Neg
29			Neg	Neg
30			6 cryptobia	Neg

Notes: Total fish sampled = 33, Parasites = 30, Viral = 33

DOA = dead on arrival

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-04	WJR06-495	Los Padillas	3	October 17, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31			DOA	Red on right side and mouth
32			DOA	
33			last fish	
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes: Total fish sampled = 33, Parasites = 30, Viral = 33

DOA = dead on arrival

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-03	WJR06-494	Los Lunas	4	October 16, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1				Negative, red spots on skin
2			Negative	Negative, red spots on skin
3			Negative	Negative, red spots on skin
4			Negative	Negative, red spots on skin
5			Negative	Negative, red spots on skin
6			5 cryptobia	Negative, red spots on skin
7			Negative	Negative
8			Negative	Negative
9			Negative	Negative
10			Negative	Negative, red spots on skin
11			Negative	Negative
12			Negative	Negative
13			Negative	Negative
14			Negative	Negative
15			Negative	Negative, red spots on skin
16			Negative	Negative
17			50 cryptobia	Neg, red spots on skin, dorsal fin open lesion
18			Negative	Negative
19			Negative	Neg, right eye missing, healed over
20			Negative	Negative
21			3 cryptobia	Negative
22			Negative	Negative
23			Negative	Negative, nose and skin red
24			3 cryptobia, 2 costia	Negative
25			Negative	Negative
26			Negative	Negative
27			Negative	Negative
28			1 cryptobia	Negative, red spots on skin
29			Negative	Negative
30			Negative	Negative

Notes: First 30 fish examined for parasites, all 60 fish for bacteria and viruses.

DOA = dead on arrival

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-03	WJR06-494	Los Lunas	4	October 16, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				Red spots on skin
35				Red at base of fins
36			DOA	Red spots on skin
37				Red spots on skin
38				
39				
40				
41			DOA	
42				Red spots on skin
43				
44				Red spots on skin
45				
46			DOA	Very red skin
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				Red spots on skin

Notes: First 30 fish examined for parasites, all 60 fish for bacteria and viruses.

DOA = dead on arrival

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-02		Middle Rio Grande - Alameda	2	October 12, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			clean	clean
2			3 apiosoma, clubbed	clean
3			clubbed	clean
4			clubbed	clean
5			clubbed, excess mucus	clean
6			clubbed, 2 costia	clean
7			clubbed	clean
8			clubbed, excess mucus	clean
9			clubbed, excess mucus	2 gyrodactylus
10			clubbed, excess mucus	clean
11			clubbed, excess mucus	clean
12			clubbed	clean
13			clubbed	clean
14		clubbed, excess mucus, 3 cryptobia, 1 trichodina		clean
15			clubbed, 1 trichodina	clean
16			clubbed, 1 trichodina, 1 apiosoma	stack of long rod bacteria
17		clubbed, 3 apiosoma, mass of long rod bacteria		clean
18			clubbed, mass of long rod bacteria	clean
19			clubbed, 1 trichodina	clean
20		clubbed, excess mucus, mass of long rod bacteria		clean
21			2 cryptobia, 1 apiosoma, clubbed	clean
22		clubbed, 2 cryptobia, 1 trichodina, excess mucus		clean
23			clubbed, excess mucus	many bacteria (more than normal)
24			clubbed, excess mucus	some bacteria
25			clubbed, excess mucus	clean
26			clubbed	clean
27			clubbed	clean
28			clubbed	clean
29			1 ambiphrya, clubbed, excess mucus	clean
30		clubbed, 1 trichodina, mass of long rod bact., excess mucus		clean

Notes: No tagged fish. After researching some of the parasite observed some of the trichodina reported may have actually been trichodinella and all the trichophrya were actually apiosoma.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-02		middle Rio Grande - Alameda	2	October 12, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes: No fish were tagged

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-01		Middle Rio Grande - Bernalillo	1	October 11, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1	Green	upper left dorsal	clean	clean
2	Green	upper left dorsal	excess mucus	1 monogene
3	Green	upper left dorsal	clean	~~100 + diatoms~~
4	Green	upper left dorsal	excess mucus, clubbing	~~100 + diatoms~~
5	Green	upper left dorsal	clean	~~diatoms~~ many bacteria
6			clean	clean
7	Green	upper left dorsal	clubbed	monogene (12 hook, no eye spots)
8	Green	upper left dorsal	excess mucus, clubbing	clean
9	Green	upper left dorsal	clubbed	clean
10	Green	upper left dorsal	clubbed	clean
11	Green	upper left dorsal	clubbed	many bacteria
12	Green	upper left dorsal	clean	clean
13	Green	upper left dorsal	excess mucus, clubbing	diatoms
14	Green	upper left dorsal	clean	clean
15	Green	upper left dorsal	clubbed	clean
16	Green	upper left dorsal	clubbed and pale	clean
17	Green	upper left dorsal	clean	some bacteria
18	Green	upper left dorsal	clean	clean
19	Green	upper left dorsal	clean	1 apiosoma, 1 diatom, some bacteria
20			clubbed, excess mucus	clean
21	Green	upper left dorsal	~~hennyguya sp.~~ masses of long rod bacteri	1 gyrodactylus
22	Green	upper left dorsal	clubbed	many long rod and short rod bacteria
23	Green	upper left dorsal	clubbed	many bacteria
24	Green	upper left dorsal	clubbed, mass of long rod bacteria	clean
25			clubbed, mass of long rod bacteria	clean
26	Green	upper left dorsal	clubbed	masses of long rod bacteria
27	Green	upper left dorsal	clubbed	many bacteria
28	Green	upper left dorsal	clubbed	many bacteria
29	Green	upper left dorsal	clubbed, excess mucus	clean
30	Green	upper left dorsal	clean	clean

Notes: When I reported bacteria, not specifically to shape, it means many smaller bacteria short rod or cocci. I only mentioned bacteria when I felt more than normal numbers were present. Additionally after refreshing my knowledge on some of the parasites observed I changed trichophrya to apiosoma.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
07-01		Middle Rio Grande - Bernalillo	1	October 11, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32	Green	upper left dorsal		
33	Green	upper left dorsal		
34	Green	upper left dorsal		
35	Green	upper left dorsal		
36				
37				
38	Green	upper left dorsal		
39	Green	upper left dorsal		
40	Green	upper left dorsal		
41		upper left dorsal		
42	Green	upper left dorsal		
43	Green	upper left dorsal		
44	Green	upper left dorsal		
45	Green	upper left dorsal		
46				
47				
48	Green	upper left dorsal		
49	Green	upper left dorsal		
50	Green	upper left dorsal		
51				
52	Green	upper left dorsal		
53				
54	Green	upper left dorsal		
55	Green	upper left dorsal		
56	Green	upper left dorsal		
57	Green	upper left dorsal		
58	Green	upper left dorsal		
59	Green	upper right dorsal		
60	Green	upper left dorsal		

Notes:

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-36	WJR06-468	Bernalillo	1	July 27, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			8 cryptobia, 13 Trichodinidae	Negative for external parasites
2			1 cryptobia, 3 Trichodinidae	Negative
3	green	right side of body	1 cryptobia, 2 costia	Negative
4			Negative	Negative
5			5 Trichodinidae, 4 cryptobia, costia	Negative
6			18 costia, 8 cryptobia	Negative
7			11 cryptobia	Negative
8			5 cryptobia	Negative
9			5 Trichodinidae, 1 costia	Negative
10			3 costia, 2 Trichodinidae	Negative
11			6 costia, 1 cryptobia	Red spot between pectorals & on body
12			5 Trichodinidae	Negative
13			1 Trichodinidae, **not a RGSM**	Negative
14			7 Trichodinidae, 4 costia, 8 cryptobia	Negative
15			18 costia, 1 epistylus, 20 cryptobia	Negative
16			Negative	Negative
17			1 Trichodinidae, 7 cryptobia	Negative
18			1 costia, 1 cryptobia	Negative
19			9 Trichodinidae, 2 costia, 2 cryptobia	Negative
20			Negative	Negative
21			2 Trichodinidae, 7 costia	Negative
22			11 Trichodinidae	Negative
23			300 costia	Negative
24			14 Trichodinidae, 3 cryptobia	Negative
25			1 Trichodinidae, 5 cryptobia, 9 costia	Negative
26			15 Trichodinidae, 100 cryptobia, 25 costia	7 costia
27			9 costia	Negative
28			3 costia, 7 cryptobia	Negative
29			70 costia	Negative
30			3 costia, 1 cryptobia	Negative

Notes: # 13 was not a RGSM, it was a flat head chub

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-36	WJR06-468	Bernalillo	1	July 27, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31	green	right side	17 Trichodinidae, 28cryptobia, 1 costia	1 epistylus, lot of red spots
32				
33				
34				
35				
36				
37				
38	green	right side		
39	green	right side		
40	green	right side		
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51	green	right side		
52				
53				
54				
55				
56				red spots caudal area
57				
58				
59				
60				

Notes: Fish 1 to 31 examined for parasites, bacteria and virus testing on all 60 fish.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-35	WJR06-466	Alameda	2	July 26, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			3 costia	Negative for external parasites
2			3 costia, 4 cryptobia	Negative
3			2 costia	Negative
4			3 cryptobia, 5 Trichodinidae	Negative
5			1 cryptobia, 8 costia	Negative
6			18 costia, 1 cryptobia	Negative
7			6 costia	Negative
8			5 costia, 3 cryptobia	Negative
9			100+ costia, 150+ cryptobia	1 Lernaea caudal fin area, red active site & s
10			25+ costia	Negative
11			100+ costia, 1 cryptobia	Negative
12			1 costia, 1 cryptobia, 3 trichodinidae	Negative
13			4 cryptobia	Negative
14			3 costia, 1 cryptobia	Negative
15			20+ cryptobia	Negative
16			50+ cryptobia, 100+ costia	Negative
17			9 cryptobia	Negative
18			1epistylis, 100+ costia, 6 Trichodinidae	25+ costia
19			50+ cryptobia	Negative
20			100+ costia	Negative
21			Negative	6 costia
22			Negative	Negative
23			300+ costia	Negative
24			150+Trichodinidae, 1costia, 1cryptobia	Negative
25			Negative	Negative
26			12 Trichodinidae	Negative
27			8 Trichodinidae, 3 costia, 1 cryptobia	Negative
28			3 costia, 7 cryptobia	Negative
29			7 costia	Negative
30			2 costia	Negative

Notes: First 30 fish examined for external parasites, all 60 for bacteria and viruses.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-35	WJR06-466	Alameda	2	July 26, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				Red spots on back half of fish
38				
39				
40				
41				
42				
43				
44				
45	green	right side		
46				
47				
48				
49				
50				
51				Red spots on back part of body
52				
53				1 Lernaea near left pelvic fin
54				
55				
56				
57				
58				
59				
60				Base of pelvic and pectoral fins red

Notes: First 30 fish examined for external parasites, all 60 for bacteria and viruses.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-34	WJR06-464	Los Padillas	3	July 25, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			10 costia, 20+ Trichodinidae	Negative for external parasites
2			7 costia, 5 Trichodinidae, 12 cryptobia	Negative
3			100+ Trichodinidae, 75+ costia	1 Lernaea
4			50+ Trichodinidae, 100+ costia	Negative
5			50+ Trichodinidae, 100+ costia, 50+ cryptob	Negative, red spot at base of dorsal fin
6			20+ Trichodinidae	Negative
7			5 Trichodinidae, 1 costia	Negative
8			1 Trichodinidae	Negative
9			100+ costia	Negative
10	red	Right side of dorsal fin	200+ costia, 25+ Trichodinidae	Negative
11			50+ costia, 75+ Trichodinidae	1 lernaea at base of left pectoral fin, 12crypto
12			Negative	1 Lernaea at base of dorsal fin
13			Negative	1 Lernaea base left pectoral fin, 1base of ana
14			12+c ryptobia, 10+Trichodinidae, 15+ costia	1 cryptobia
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

Notes: Only 14 fish could be collected and examined for fish pathogens at this site.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-28	WJR06-462	Los Lunas	4	July 20, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			1Trichodinidae, 50+ apiosoma, 9 costia	Negative for external parasites
2			1 costia	Negative
3			Negative	Negative
4			5 costia,100+ apiosoma, 30+ cryptobia	Negative
5			Negative	Negative
6			12 costia	Negative
7			Negative	Negative
8			Negative	Negative
9			Negative	Negative
10			6 costia, 1 cryptobia	Negative
11			1 costia	Negative
12			1 apiosoma	Negative
13			12 apiosoma, 1 epistylus	Negative
14			6 costia	Negative
15			Negative	1 lernaea at base of left perctoral fin
16			Negative	Negative
17			Negative	Negative
18			3 costia	Negative
19			Negative	Negative
20			10 costia	Negative
21			1 costia	Negative
22			2 cryptobia	Negative
23			3 cryptobia, 1 apisoma	Negative
24			1 costia	Negative
25			Negative	Negative
26			5 costia	Negative
27			2 costia	Negative
28			20+ costia	Negative
29			1 costia	Negative
30			1 cryptobia	Negative

Notes: 30 fish examined for external parasites on gills and skin, 60 fish for bacteria and piruses.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-28 B	WJR06-462	Los Lunas	4	July 20, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				1 Lernaea on left pectoral fin
47				
48				
49				
50				
51				1 Lernaea on dorsal fin, red colored
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes: First 30 fish examined for external parasites on gill & skin, all 60 fish for bacteria and viruses.

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-27	WJR06-461	La Joya	5	July 19, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			2 apiosoma, 2 costia	Negative for parasites
2			3 cryptobia, 9 apiosoma, 1 tichodina	Negative, dorsal (back) red colored
3			Negative	Negative
4			1 apiosoma	Negative, vent area red
5			Negative	Negative, vent area red
6			1 costia	Negative
7			1 costia	Negative
8			Negative	Negative
9			1 costia	Negative
10			Negative	Negative
11			2 apiosoma, 1 costia	Negative
12			1 cryptobia	Negative
13			1 cryptobia	Negative
14			2 apiosoma, 1 costia	Negative
15			20+ cryptobia, 20+ costia	Negative
16			2 apiosoma	Negative
17			2 cryptobia, 1 costia	Negative
18			Negative	Negative
19			20 epistylis	Negative
20			1 cryptobia	Negative
21			1 cryptobia	Negative
22			6 cryptobia	Negative
23			12 costia	Negative
24			Negative	Negative
25			Negative	Negative
26			Negative	Negative for parasites, red spots
27			1 costia	Negative for parasites, red near vent
28			35+ apiosoma, 1 costia	50+ costia, red near base pectoral fins
29			Negative	Negative
30			Negative	Negative

Notes: # 17 bottom of caudal fin missing, red and active tissue damage.

First 30 fish examined for external parasites, 45 fish for bacteria and viruses.

DOA= Dead on arrival

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-27	WJR06-461	La Joya	5	July 19, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31			DOA	
32			DOA	
33			DOA	
34			DOA	1 Lernaea on left pectoral fin
35			DOA	
36			Live	
37			Live	
38			Live	
39			Live	
40			Live	
41			Live	
42			Live	
43			Live	
44			Live	
45			Live	
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes: First 20 fish collected fin clips and gill tissues for genetics work. Labeled as WJR06-462, should have been 461. First 30 fish examined for external parasites, 45 fish for bacteria and viruses.

DOA= dead on arrival

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-26	SRD06-454	San Antonio	6	July 18, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
1			Negative for parasites	Negative for Parasites
2			Negative	Negative
3			Negative	Negative
4			Negative	Negative
5			100+ costia, 1 apiosoma	Negative
6			100+ costia	Negative
7			50+ costia	Negative
8			Negative	Negative
9			Negative	Negative
10			100+ costia	Negative
11			50+ costia	Negative
12			100+ costia	Negative
13			100+ costia	Negative
14			1 costia	Negative
15			Negative	Negative
16			50+ costia	Negative
17			100+ costia	Negative
18			25 costia	Negative
19			7 costia	Negative
20			21 costia	Negative
21			100+ costia	Negative
22			100+ costia	3 costia
23			3 costia	Negative
24			75+ costia	Negative
25			75+ costia	Negative
26			25+ costia	Negative
27			30+ costia	Negative
28			9 costia	Negative
29			20+ costia, 1 Trichodinidae	Negative
30			11 costia	Negative

Notes: Fish #s 1 to 40 sampled for external parasites, bacteria, viruses.

DOA= dead on arrival

Rio Grande Silvery Minnow Data Sheet

CHN	Ecological Services CHN	Name of Location	Site #	Collection Date
06-26	SRD06-454	San Antonio	6	July 18, 2006

Sample No.	Tag (color) if present	Location of Tag if present	Gills	Skin
31			20+ costia	1 monogenetic trematode
32			100+ costia	1 costia
33			3 costia	Negative
34			100+ costia	Negative
35			20+ costia	Negative
36			9 costia	Negative
37			75+ costia	Negative
38			13 costia	Negative
39			75+ costia, 4 cryptobia	Negative
40			DOA, gills pale	Negative
41			DOA, gills pale	Ventral side ruptured. **Sample not good**
42			DOA, no good	**Sample not good**
43			DOA, no parasites	lernaea near vent, **sample not good**
44			DOA, gills pale	**Sample nto good**
45			DOA, gills pale	Ventral side ruptured, **Sample not good**
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

Notes: Monogenetic trematode, 2 hooks, no eye spots visible.

Fish #41 to 45 no good, not used for viral or bacterial samples, or parasites except the one Lernaea.

Fish 1 to 40 sampled for external parasites, bacteria, viruses.

DOA = dead on arrival.

Appendix 5B. Assumptions for Determining Bacterial Identification when Several Isolates of Bacteria were Isolated from the Same Fish.

A) If different isolates from the same fish had identical motilities, CO test results and the bacteria were gram positive, it was assumed that they were identical bacteria without further testing.

Reason: There were no other tests performed for identifying gram positive bacteria to the genus or species level.

B) If isolates from the same fish were identical in CO, motility, and API results, these bacteria were considered the same.

Reason: No other tests were performed to make a valid argument that the bacteria were different. It is possible to pick bacteria growing on agar in Petri dishes that look different but are really the same bacteria. Sometimes colonies may appear different due to the amount of growth variance between colonies.

C) If the API codes were not exactly identical, even in cases where the API codes were off by one number, the bacteria were considered different.

D) If CO and motility were the same and later the bacteria were lost (died) or the growth was very slow (3–4 days before seeing any appreciable growth) and no API tests were performed from several isolates on the same fish, these bacteria isolates were considered different bacteria.

Reason: Samples may appear to be the same based on CO and motility, but several bacteria can share these same results and be different bacteria. Without further testing, it is not possible to determine if these bacteria were the same or identical. The assumption is to fall back on the identification of the bacteria as different based on the morphology of the bacterial colonies on the BHI agar plates.

E) If API codes were identical but the motility was different, these bacteria were considered the same.

Reason: Observations of motility can be dependent on how old the bacteria were when examined. Sometimes you may only observe motility in small numbers; therefore, it is possible to miss it at times due to human error. The API codes are not always as subjective as the motility tests.

F) If isolates from the same fish included bacteria with the same CO, motility and gram stain test results and no API was performed, then it was determined that not enough information was available to report the number of different isolates. These samples were not taken into consideration for statistics. Statistics not reported in the body of this paper included the average number of different bacteria, minimum number of different bacteria, and maximum number of different bacteria on the fish per sampling event. A sampling event is defined by the site location and the date it is sampled.

Appendix 5C – Bacterial Records

BACTERIOLOGY IDENTIFICATION

CHN: 08-58 **COLLECTION DATE** July 16, 2008

Lot # **Location** Rio Grande - Bernalillo (Site #1)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1A		-	+		+		gram positive bacteria
1B		+	+		-	0402004	*Shewanella putrefaciens 99%*
2A		-	+		+		gram positive bacteria
2B		+	+		-	3047104	*A. hydrophila/caviae/sobria 2 82%*
3		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
4A		-	-		+		gram positive bacteria
4B		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
5		+	+		-	3147165	*A. hydrophila/caviae/sobria 1 56.4%*
6		+	+		-	7047527	*A. hydrophila/caviae/sobria 1 66.2%*
7		+	+		-	0001004	*Bordatella/Alcaligenes/Moraxella spp 43.1%*
8A		+	-	-	-	6004004	*Photobacterium damselae 95.8%*
8B		+	+		-	0005004	Non-fermenter spp 65.7%
10		+	+		-	7047126	*A. hydrophila/caviae/sobria 1 85.9%*
11		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
13		-	-		+		gram positive bacteria
14		-	-		-	0000000	Can't ID with API
15A		-	-	-	-	5105112	*Hafnia alvei 1 99.9%*
15B		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
16		+	+		-	3047106	*A. hydrophila/caviae/sobria 1 86.6%*
18		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
19		+	-	+	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
21		+	+		-	7247125	*A. hydrophila/caviae/sobria 2 99%*
22		+	-	+	-	3046127	*A. hydrophila/caviae/sobria 1 67%*
23		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
24		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
25		+	-	-	-	3044127	*Vibrio fluvialis 58%*
26A		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
26B		+	+		-	7045165	*A. hydrophila/caviae/sobria 2 75%*
27A		+	+		-	7045125	*A. hydrophila/caviae/sobria 2 74.9%*
27B		+	+		-	7047127	*A. hydrophila/caviae/sobria 1 85.9%*

COMMENTS: Completed 8-6-08. Identification made under the genus Vibrio were considered not acceptable ID based on expected bacteria.

BACTERIOLOGY IDENTIFICATION

CHN: 08-58 **COLLECTION DATE** July 16, 2008

Lot # **Location** Rio Grande - Bernalillo (Site #1)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
28		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
29		+	+		-	7245124	*A. hydrophila/caviae/sobria 2 96.6%*
30		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
31a		+	-	-	-	7144324	*Plesiomonas shigelloides no% given*
31b		+	-	-	-	1004104	*Pasteurella pneumotropica/Mannheimia haemolytica 89.2%*
32	light growth		-	-			to slow
33a		+	-	-	-	1044004	*Pasteurella pneumotropica/Mannheimia haemolytica 66%*
33b		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
34a		+	+		-	7047126	*A. hydrophila/caviae/sobria 1 85.9%*
34b		+	+		-	7144204	*Plesiomonas shigelloides 99.9%*
35a	light growth		-				too slow
35b	light growth		-				too slow
36a		+	-	+	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
36b		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
37		+	+		-	7045124	*A. hydrophila/caviae/sobria 2 74.6%*
38		+	+		-	3047104	*A. hydrophila/caviae/sobria 2 82%*
39		+	+		-	3047106	*A. hydrophila/caviae/sobria 1 86.6%*
40a		-	-	-	-	5105112	*Hafnia alvei 1 99.9%*
40b		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
41a		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
41b		+	+		-	7045125	*A. hydrophila/caviae/sobria 2 74.9%*
42a		+	+		-	5147125	*Vibrio cholerae 98.6%*
42b		+	+		-	3047126	*A. hydrophila/caviae/sobria 1 97.8%*
43a		+	-	-	-	5044064	*Pasteurella pneumotropica/Mannheimia haemolytica no % given*
43b		+	-		+		gram positive bacteria
44		+	-	-	-	6004004	*Photobacterium damselae 95.8%*
45		+	-	-	-	3047104	*A. hydrophila/caviae/sobria 2 - 82%*
46a		+	-	-	-	7144204	*Plesiomonas shigelloides 99.9%*
46b		+	-	+	-	3047104	*A. hydrophila/caviae/sobria 2 - 82%*
47		+	-	+	-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*

COMMENTS: Completed 8-6-08. Identification made under the genus Vibrio were considered not acceptable ID based on expected bacteria.

BACTERIOLOGY IDENTIFICATION

CHN: 08-58 **COLLECTION DATE** July 16, 2008
Lot # **Location** Rio Grande - Bernalillo (Site #1)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
48A		+	+		-	5004064	*Pasteurella pneumotropica/Mannheimia haemolytica no % given*
48B		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
49A		+	+		-	7045124	*A. hydrophila/caviae/sobria 2 74.6%*
49B		+	+		-	3046127	*A. hydrophila/caviae/sobria 1 67%*
50A		+	+		-	7045127	*A. hydrophila/caviae/sobria 1 94.7%*
50B		+	+		-	7047125	*A. hydrophila/caviae/sobria 2 89.8%*
51		+	-	-	-	1007004	*Burkholderia cepacia 54.5%*
52A		+	+		-	0004004	Non-fermenter spp 31.8%
52B		+	+		-	5047304	*A. hydrophila/caviae/sobria 2 no % given*
53		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
54		+	-	+	-	7047127	*A. hydrophila/caviae/sobria 1 85.9%*
55		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
56		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
57		+	+		-	3047106	*A. hydrophila/caviae/sobria 1 86.6%*
59		+	-	+	-	7047125	*A. hydrophila/caviae/sobria 2 89.8%*
60A		+	+		-	6004004	*Photobacterium damselae 95.8%*
60B		+	+		-	7045125	*A. hydrophila/caviae/sobria 2 74.9%*

COMMENTS: Completed 8-6-08. Identification made under the genus Vibrio were considered not acceptable ID based on expected bacteria.

BACTERIOLOGY IDENTIFICATION

CHN: 08-57 **COLLECTION DATE** July 15, 2008
Lot # **Location** Rio Grande - Alameda (Site#2)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
3a		+	+		-	0005004	Non-Fermenter spp 65.7%
3b		+	+		-	0000004	Non-Fermenter spp 32.1%
4a		+	+		-	3046127	*A. hydrophila/caviae/sobria 1 67%*
4b		+	+		-	3046127	*A. hydrophila/caviae/sobria 1 67%*
5a		+	+		-	0000004	Non-Fermenter spp 32.1%
5b		+	+		-	7144204	*Plesiomonas shigelloides 99.9%*
6a		+	+		-	0000004	Non-Fermenter spp 32.1%
6b		+	+		-	7247164	*A. hydrophila/caviae/sobria 2 99%*
6c		-	+		+		gram positive bacteria
7a		+	+		-	3042127	*Vibrio fluvialis 89.2%*
7b		+	+		-	3042027	*Vibrio fluvialis 99%*
7c		+	+		-	3046127	*A. hydrophila/caviae/sobria 1 67%*
8		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
9a		+	+		-	7147105	*A. hydrophila/caviae/sobria 2 92.2%*
9b		+	+		-	7144204	*Plesiomonas shigelloides 99.9%*
10		+	+		-	7044064	*A. hydrophila/caviae/sobria 1 no % given*
11		+	+		-	7047064	*A. hydrophila/caviae/sobria 2 89.8%*
12		-	+		-	7207120	*A. hydrophila/caviae/sobria 2 99%*
13		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
14a		+	+		-	3026127	*A. hydrophila/caviae/sobria 1 59.3%*
14b		+	+		-	0502004	*Shewanella putrefaciens* group 99.9%
15		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
16a		+	+		-	6005004	*Photobacterium damselae 99.7%*
16b		+	+		-	3047106	*A. hydrophila/caviae/sobria 1 86.6%*
17		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
18a		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
18b		+	+		-	3047106	*A. hydrophila/caviae/sobria 1 86.6%*
20a		+	+		-	6047105	*A. hydrophila/caviae/sobria 2 97.3%*
20b		+	+		-	7007124	*A. hydrophila/caviae/sobria 2 89.8%*

COMMENTS: Completed 7-31-08. Identification made under the genus *Vibrio* were considered not acceptable ID based on expected bacteria.

BACTERIOLOGY IDENTIFICATION

CHN: 08-57 **COLLECTION DATE** July 15, 2008
Lot # **Location** Rio Grande - Alameda (Site#2)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
21a		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
21b		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
22a		+	+		-	7144204	*Plesiomonas shigelloides 99.9%*
22b		+	+		-	3047106	*A. hydrophila/caviae/sobria 1 86.6%*
23a		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
23b		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
24a		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
24b		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
25		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
26a		+	+		-	7047125	*A. hydrophila/caviae/sobria 2 89.8%*
26b		+	+		-	3007104	*A. hydrophila/caviae/sobria 2 81.2%*
27a		+	+		-	7147024	*Vibrio cholerae 89.7%*
27b		+	+		-	7247164	*A. hydrophila/caviae/sobria 2 99%*
28a		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
28b		+	+		-	1004022	*Pantoea* spp 1 84.6%
29a		+	+		-	7047126	*A. hydrophila/caviae/sobria 1 85.9%*
29b		+	+		-	6104004	*Plesiomonas shigelloides 50%*
29c		+	+		-	7247126	*A. hydrophila/caviae/sobria 2 65.3%*
30a		+	+		-	7247125	*A. hydrophila/caviae/sobria 2 99%*
30b		+	+		-	3047104	*A. hydrophila/caviae/sobria 2 82%*
31a		-	+		-	4104112	*Salmonella* ser.*Pullorum 66.3%*
31b		+	+		-	7047127	*A. hydrophila/caviae/sobria 1 85.9%*
32a		+	+		-	7047125	*A. hydrophila/caviae/sobria 2 89.8%*
32b		+	+		-	3046127	*A. hydrophila/caviae/sobria 1 67%*
33		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
34a		+	+		-	3046127	*A. hydrophila/caviae/sobria 1 67%*
34b		+	+		-	1047124	*A. hydrophila/caviae/sobria 1 57.4%*
36a		+	+		-	7144204	*Plesiomonas shigelloides 99.9%*
36b		+	+		-	7144204	*Plesiomonas shigelloides 99.9%*
37		+	+		-	7247125	*A. hydrophila/caviae/sobria 2 99%*

COMMENTS: Completed 7-31-08. Identification made under the genus Vibrio were considered not acceptable ID based on expected bacteria.

BACTERIOLOGY IDENTIFICATION

CHN: 08-57 **COLLECTION DATE** July 15, 2008
Lot # **Location** Rio Grande - Alameda (Site#2)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
38a		-	+		-	3301573	*Enterobacter cloacae 97.5%*
38b		+	+		-	7247125	*A. hydrophila/caviae/sobria 2 99%*
39		-	+		-	3305573	*Enterobacter cloacae 95.1%*
40a		+	+		-	7144204	*Plesiomonas shigelloides 99.9%*
40b		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
41a		-	-		+		gram positive bacteria
41b		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
42a		+	+		-	7047537	*A. hydrophila/caviae/sobria 1 90.4%*
42b		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
43a		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
43b		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
44a		+	+		-	0000004	Non-Fermenter spp 32.1%
44b		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
45		-	-		+		gram positive bacteria
46		+	+		-	3046127	*A. hydrophila/caviae/sobria 1 67%*
47a		+	+		-	7144204	*Plesiomonas shigelloides 99.9%*
47b		+	+		-	5347125	*Vibrio cholerae 99.3%*
49a		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
49b		+	+		-	6104004	*Plesiomonas shigelloides 50%*
50a		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
50b		+	+		-	3047104	*A. hydrophila/caviae/sobria 2 82%*
51		+	+		-	7047505	*A. hydrophila/caviae/sobria 2 99.4%*
52a		+	-	-	-	0004026	*Burkholderia cepacia 73.3%*
52b		+	+		-	0004026	*Burkholderia cepacia 73.3%*
53		+	+		-	3046127	*A. hydrophila/caviae/sobria 1 67%*
54		+	+		-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
55a		+	+		-	7144204	*Plesiomonas shigelloides 99.9%*
55b		+	+		-	7247125	*A. hydrophila/caviae/sobria 2 99%*
55c		+	+		-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*

COMMENTS: Completed 7-31-08. Identification made under the genus Vibrio were considered not acceptable ID based on expected bacteria.

BACTERIOLOGY IDENTIFICATION

CHN: 08-56 **COLLECTION DATE** July 14, 2008
Lot # **Location** Rio Grande - Los Padillas (Site#3)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1		+	+	+	-	3047507	*A. hydrophila/caviae/sobria 1 77.8%*
2		-	+	+	+		gram positive bacteria
3		+	+	+	-	7144204	*Plesiomonas shigelloides 99.9%*
4		-	-	-	+		gram positive bacteria
5		+	+	+	+	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
6A	light growth	-	+	+	-	1006000	*Burkholderia cepacia 58%*
6B		+	+	+	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
7		+	-	-	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
8		+	+	+	-	0005004	*Non-Fermenter spp 65.7%*
9		+	+	+	-	7247125	*A. hydrophila/caviae/sobria 2 99%*
10		+	+	+	-	3046127	*A. hydrophila/caviae/sobria 1 67%*
11A		+	-	-	-	7046127	*A. hydrophila/caviae/sobria 1 98.4%*
11B		+	+	+	+		gram positive bacteria
12		-	+	+	-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
13		+	+	+	-	2006004	*Chromobacterium violaceum 61%*
14		+	+	+	-	7047127	*A. hydrophila/caviae/sobria 1 85.9%*
15		+	+	+	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
16		-	+	+	+		gram positive bacteria
17		+	+	+	-	7067124	*A. hydrophila/caviae/sobria 2 89.6%*
18		-	+	+	+		gram positive bacteria
19A		-	+	+	+		gram positive bacteria
19B		+	+	+	-	3046127	*A. hydrophila/caviae/sobria 1 67%*
20		-	-	-	-	0001000	*Pseudomonas oryzihabitans 40%*
21		+	+	+	-	1046127	*A. hydrophila/caviae/sobria 1 92.4%*
22		+	+	+	-	3046027	*A. hydrophila/caviae/sobria 1 86.2%*
23		+	+	+	-	2000004	*Pseudomonas flourescens/putida 54%*
24		+	-	-	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
25		+	+	+	-	7047125	*A. hydrophila/caviae/sobria 2 89.8%*
26		+	+	+	-	7047164	*A. hydrophila/caviae/sobria 2 89.8%*
27		+	+	+	-	7047117	*A. hydrophila/caviae/sobria 1 82.3%*

COMMENTS: Completed 8-6-8.

BACTERIOLOGY IDENTIFICATION

CHN: 08-56 **COLLECTION DATE** July 14, 2008

Lot # **Location** Rio Grande - Los Padillas (Site#3)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
28		+		+	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
29A		+		+	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
29B		+		+	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
30		+		+	-	7247165	*A. hydrophila/caviae/sobria 2 99%*
31A		-		-	+		gram positive bacteria
31B		+		+	-	0206044	*Pseudomonas flourescens/putida 50.4%*
32A		-		-	+		gram positive bacteria
32B		-		-	+		gram positive bacteria
33		+		+	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
34		+		+	-	3047127	*A. hydrophila/caviae/sobria 1 98.4%*
35		-		-	+		gram positive bacteria
36		-		-	-	3305533	*Enterobacter cloacae 98.9%*
37		+		+	-	3067106	*A. hydrophila/caviae/sobria 1 no % given*
38		+		+	-	3047104	*A. hydrophila/caviae/sobria 2 82%*
39A		+		+	-	1504576	*Citrobacter freundii no % given*
39B		+		+	-	3046137	*A. hydrophila/caviae/sobria 1 99%*
41		-		-	+		gram positive bacteria
42	no growth						
43		-		-	+		gram positive bacteria
44		-		-	+		gram positive bacteria
45		+		+	-	7047126	*A. hydrophila/caviae/sobria 1 85.9%*
46		+		+	-	7047125	*A. hydrophila/caviae/sobria 2 89.8%*
47		+		+	-	7247124	*A. hydrophila/caviae/sobria 2 98.8%*
48		+		+	-	6006124	*A. hydrophila/caviae/sobria 1 62.7%*
49		+		+	-	7047124	*A. hydrophila/caviae/sobria 2 89.6%*
50		+		+	-	7047125	*A. hydrophila/caviae/sobria 2 89.8%*
51		+		+	-	2200044	*Pseudomonas flourescens/putida 90.5%*
52		+		+	-	3046127	*A. hydrophila/caviae/sobria 1 67%*
53		+		+	-	7047105	*A. hydrophila/caviae/sobria 2 98.2%*
54		+		+	-	7144204	*Plesiomonas shigelloides 99.9%*

COMMENTS: Completed 8-6-8.

BACTERIOLOGY IDENTIFICATION

CHN: 08-56 **COLLECTION DATE** July 14, 2008
Lot # **Location** Rio Grande - Los Padillas (Site#3)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
55a		+	+	+	-	7045124	*A. hydrophila/caviae/sobria 2 74.6%*
55b	light growth	-	+	+	-	1003000	*Pasteurella pneumotropica/Mannheimia haemolytica 37.9%*
56		+	+	+	-	3046127	*A. hydrophila/caviae/sobria 2 92%*
57		+	+	+	-	3046127	*A. hydrophila/caviae/sobria 2 92%*
58		-	-	-	+		gram positive bacteria
59		+	+	+	-	7047115	*A. hydrophila/caviae/sobria 1 67%*
60		+	+	+	-	7047164	*A. hydrophila/caviae/sobria 2 89.8%*

COMMENTS: Completed 8-6-8.

BACTERIOLOGY IDENTIFICATION

CHN: 08-55 **COLLECTION DATE** July 10, 2008
Lot # **Location** Site #4 - Los Lunas

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
7		-	-	-	-	0004000	Shigella spp 81.6%
12		+	+		-	7247165	A. hydrophila/caviae/sobria 2 99.0%
13		+	+		-	7266125	A. hydrophila/caviae/sobria 2 89.8%
14a		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
14b		+	+		-	3047123	A. hydrophila/caviae/sobria 2 98.4%
15		+	+		-	7047127	A. hydrophila/caviae/sobria 2 85.9%
18		+	+		+		gram positive bacteria
26a		-	+		-	1044553	Pantoea spp4 76.0%
26b		+	+		-	7147577	A. hydrophila/caviae/sobria 1(no%)
27		+	+		-	2207044	Pseudomonas fluorescens/putida 80.4%
28a		+	-		-	0042004	Chryseobacterium meningosepticum 71.6%
28b		-	+		-	0002000	Stenotrophomonas maltophilla 65.6%
29a		+	+		-	7047126	A. hydrophila/caviae/sobria 1 85.9%
29b		+	-		-	0402004	A. hydrophila/caviae/sobria 2 99.0%
30		+	+		-	7144204	Plesiomonas shigelloides 99.9%
32		+	+		-	0206044	Pseudomonas fluorescens/putida 50.4%
33		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
34		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
35a		+	+		-	1004104	Pasteurella pneumotropica/Mannheimia/haemolytic a 89.2%
35b		+	-	-	-	3046127	A. hydrophila/caviae/sobria 1 67.0%
36		+	+		-	7047127	A. hydrophila/caviae/sobria 1 85.9%
37		+	+		-	7047104	A. hydrophila/caviae/sobria 2 98.1%
38		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
39		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
40a		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
40b		+	+		-	0000004	Non fermenter spp 32.1%
41		+	-	-	-	2004104	A. salmonicida ssp salmonicida 99.7
43a		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
43b		+	+		-	7146127	A. hydrophila/caviae/sobria 2 88.6%
44a		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%

Comments: Sample number 41 negitive for A. sal. by DFAT. Bacteria identified under the genus *Vibrio* were not considered an acceptable ID for the expected bacteria. Completed 8-1-08.

BACTERIOLOGY IDENTIFICATION

CHN: 08-55 **COLLECTION DATE** July 10, 2008
Lot # **Location** Site #4 - Los Lunas

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
44b	light growth	+			-	0000004	non fermenter spp 32.1%
45		+	-	+	-	3046027	Vibrio fluvialis 86.2%
46		+	-	-	-	0200004	Bordetella/Alcalligenes/Moraxella spp 38.7%
47		+	+		-	7046124	A. hydrophila/caviae/sobria 1 56.1%
48		+	+		-	3046127	A. hydrophila/caviae/sobria 1 67.0%
49a		+	+		-	7144204	Plesiomonas shigelloides 99.9%
49b		+	+		-	6046127	A. hydrophila/caviae/sobria 1 98.7%
50a		+	+		-	7047144	A. hydrophila/caviae/sobria 2 98.2%
50b		+	+		-	0001004	Bordetella/Alcalligenes/Moraxella spp 43.1%
51a		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.2%
51b		+	+		-	7047125	A. hydrophila/caviae/sobria 2 89.8%
52a		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
52b		-	+		+		gram positive bacteria
54		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
55a		+	+		-	7147304	A. hydrophila/caviae/sobria 2 97.8%
55b		+	+		-	6047124	A. hydrophila/caviae/sobria 2 83.6%
56a		+	+		-	1004026	Burkholderia cepacia 59.1%
56b		-	-	-	-	1044553	Pantoea spp 4 76.0%
57a		+	+		-	3047127	A. hydrophila/caviae/sobria 1 98.4%
57b		+	+		-	6047104	A. hydrophila/caviae/sobria 2 97.1%
58a		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
58b		+	+		-	7144204	Plesiomonas shigelloides 99.9%
59a		+	+		-	1004022	Pantoea spp 4 84.6%
59b		+	-	-	-	7144204	Plesiomonas shigelloides 99.9%
59c		+	+		-	7006345	A. hydrophila/caviae/sobria 2
60a		+	+		-	7046124	A. hydrophila/caviae/sobria 1 56.1%
60b		+	+		-	5047124	Vibrio cholerae 82.7%
60c		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
53a		+	+		-	7047104	A. hydrophila/caviae/sobria 2 98.1%
53b		-	-	-	-	1004122	Pantoea spp 4 98.3%

Comments: Sample number 41 negitive for A sal by DFAT. Bacteria identified under the genus *Vibrio* were not considered an acceptable ID for the expected bacteria. Completed 8-1-08.

BACTERIOLOGY IDENTIFICATION

CHN: 08-54 **COLLECTION DATE** July 9, 2008
Lot # **Location** La Joya - Site 5

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1		+	+		-	0004004	Non fermenter spp 31.8%
2	light growth	-	-	-	-		no id
5		+	+		-	2046127	Vibrio fluvialis 50.1%
8a		+	-	-	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
8b		+	+		-	6047124	A. hydrophila/caviae/sobria 2 83.6%
9		+	+		-	7045124	A. hydrophila/caviae/sobria 2 83.6%
11		+	-	-	-	0005004	Non fermenter spp 65.7%
12a		+	+		-	7047125	A. hydrophila/caviae/sobria 2 89.8%
12b		+	+		-	3046127	A. hydrophila/caviae/sobria1 67.0%
19a		+	-	-	+		gram positive bacteria
19b		+	+		-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%l
20		+	-	-	-	0004004	Non fermenter spp 31.8%
21a		+	+		-	7047125	A. hydrophila/caviae/sobria 2 89.8%
21b		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
23		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
24		+	-	-	-	0004004	Non fermenter spp 31.8%
25a		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
25b		+	+		-	7044204	Plesiomonas shigelloides 99.9%
26A		-	+		+		gram positive bacteria
26B		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
26C		-	+		+		gram positive bacteria
27A		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
27B		+	+		-	3046127	A. hydrophila/caviae/sobria1 67.0%
28		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
29a		+	+		-	5347165	*Vibrio cholerae* 94.3%
29b		+	+		-	7147165	A. hydrophila/caviae/sobria 2 89.0%
31a		+	+		-	7047164	A. hydrophila/caviae/sobria 2 89.0%
31b		+	+		-	7047107	A. hydrophila/caviae/sobria 2 50.8%
32		+	+		-	3046127	A. hydrophila/caviae/sobria1 67.7%
33A		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%

COMMENTS: Bacteria identified with the genus *Vibrio* were determined not as an acceptable ID for the expected bacteria. Completed 8-1-08.

BACTERIOLOGY IDENTIFICATION

CHN: 08-54 **COLLECTION DATE** July 9, 2008
Lot # **Location** La Joya Site #5

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
33B		+	+		-	7046135	A. hydrophila/caviae/sobria 1 86.2%
35a		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
35b		+	+		-	0201004	Bordetella/Alcaligenes/Moraxella spp 59.8%
36		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
37a		+	+		-	6047124	A. hydrophila/caviae/sobria 2 83.6%
37b		+	+		-	7046167	A. hydrophila/caviae/sobria 1 98.5%
38		+	+		-	7144204	Plesiomonas shigelloides 99.9%
39a		+	+		-	7047125	A. hydrophila/caviae/sobria 2 89.8%
39b		+	+		-	2202004	Pseudomonas aeruginosa 67.1%
40a		+	+		-	0004004	Non fermenter spp 31.8%
40b		+	+		-	0205004	Non fermenter spp 56.0%
41a		+	+		-	7247125	A. hydrophila/caviae/sobria 2 99.0%
41b		+	+		-	1207123	Serratia rubidaea 63.0%
42		+	+		-	7046167	A. hydrophila/caviae/sobria 1 98.5%
43a		+	+		-	7144204	Plesiomonas shigelloides 99.9%
43b		+	+		-	7045124	A. hydrophila/caviae/sobria 2 83.6%
44		+	+		-	7045204	Plesiomonas shigelloides 96.4%
45a		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
45b		+	+		-	7044026	A. hydrophila/caviae/sobria 1 77.9%
46a		+	+		-	1000004	Pasteurella pneumotropica.Mannheimia 46.2%
46b		+	+		+		gram positive bacteria
46c		-	+		-	7144244	Plesiomonas shigelloides 99.9%
47		+	+		-	7047125	A. hydrophila/caviae/sobria 2 89.8%
48		+	+		-	1005127	A. hydrophila/caviae/sobria 1 85.8%
49a		+	+		-	5147125	Vibrio cholerae 98.6%
49b		+	+		-	7144204	Plesiomonas shigelloides 99.9%
50a		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
50b		+	+		-	1047177	A. hydrophila/caviae/sobria 1 95.8%

COMMENTS: Bacteria identified with the genus Vibrio were determined not as an acceptable ID for the expected bacteria. Completed 8-1-08.

BACTERIOLOGY IDENTIFICATION

CHN: 08-53 **COLLECTION DATE** July 8, 2008
Lot # **Location** San Antonio Site #6

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
5a		+	+		-	7047164	A. hydrophila/caviae/sobria 2 89.8%
5b		+	+		-	7007125	A. hydrophila/caviae/sobria 2 89.8%
6	not enough growth						
7a		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
7b		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
13a		+	+		-	7047127	A. hydrophila/caviae/sobria 2 85.9%
13b		+	+		-	6104004	Plesiomonas shigellodies 50.0%
16a		+	+		-	7247125	A. hydrophila/caviae/sobria 2 99.0%
16b		+	+		-	7144204	Plesiomonas shigelloides 99.9%
17		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
18a		+	+		-	7247125	A. hydrophila/caviae/sobria 2 99.0%
18b		+	+		-	6104004	Plesiomonas shigellodies 50.0%
19		+	+		-	7047105	A. hydrophila/caviae/sobria 2 98.2%
20		+	+		-	7047125	A. hydrophila/caviae/sobria 2 89.8%
33a		+	+		-	7047127	A. hydrophila/caviae/sobria 2 85.9%
33b		+	+		-	7047127	A. hydrophila/caviae/sobria 2 85.9%
34		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
35a		+	+		-	6347126	A. hydrophila/caviae/sobria 2
35b		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
38		-	-		+		Gram positive bacteria
39		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
40		+	+		-	7247524	A. hydrophila/caviae/sobria 2 99.6%
44		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
45		+	+		-	7047124	A. hydrophila/caviae/sobria 2 89.6%
46		+	+		+		Gram positive bacteria
47		+	+		-	7247124	A. hydrophila/caviae/sobria 2 98.8%
48a		+	+		-	7147125	A. hydrophila/caviae/sobria 2 81.1%
48b		+	+		-	7144204	Plesiomonas shigelloides 99.9%
50		+	+		-	7047127	A. hydrophila/caviae/sobria 2 85.9%
53a		+	+		-	7057124	A. hydrophila/caviae/sobria 2 89.6%

Completed 8-1-08

BACTERIOLOGY IDENTIFICATION

CHN: 08-53 **COLLECTION DATE** July 8, 2008
Lot # site #6 **Location** San Antonio (Site #6)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
53b		+	+		-	7145204	Plesiomonas shigelloides 99.9%
54		+	+		-	7144205	Plesiomonas shigelloides 99.9%
57		+	+		-	7144204	Plesiomonas shigelloides 99.9%
59		+	+		-	7144204	Plesiomonas shigelloides 99.9%

COMMENTS: Completed 8-1-08.

BACTERIOLOGY IDENTIFICATION

CHN: 08-41 **COLLECTION DATE** 4/16/2008 **LOCATION** Rio Grande Site #1
Lot# _____ Bernalillo site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
6			-		+		Gram positive bacteria
9		+	+		-	2201004	Pseudomonas fluorescens/putida 94.1%
12a		+	-	+	-	2203004	Pseudomonas fluorescens/putida 79.9%
12b		+	-	+	-	2203004	Pseudomonas fluorescens/putida 79.9%
17a			-		+		Gram positive bacteria
17b			+		+		Gram positive bacteria
18			-		+		Gram positive bacteria
19		+	+		-	7047105	A. hydrophila/cavia/sobria 2 98.2%
30		+	-	-	-	0005024	Pasteurella pneumotropica/Mannheimia 90.7%
37a		-	+		-	1155773	Raoultella ornithinolytica 85.3%
37b		-	+		-	1155773	Raoultella ornithinolytica 85.3%
42a		+	+		-	2206004	Chromobacterium violaceum 76.8%
42b		+	-	+	-	2202004	Pseudomonas aeruginosa 67.1%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 08-40 **COLLECTION DATE** 4/15/2008 **LOCATION** Rio Grande (Site #2) Alameda site
Lot# _____

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
8		+	+		-	0047104	*Vibrio alginolyticus* 27.9%
12		+	-	-	-	0005024	Pasteurella pneumotropica/Mannheimia 90.7%
31a		+	+		-	7067145	A. hydrophila/caviae/sobria 2
31b		+	+		-	2000004	Pseudomonas fluorescens/putida 54.0%
35a		+	+		-	4347325	*Vibrio alginolyticus* 83%
35b		+	+		-	2201004	Pseudomonas fluorescens/putida 94.1.0%
37a		+	+		-	3047104	A. hydrophila/caviae/sobria 2 82.0%
37b		-	+		-	3344513	Citrobacter koseri/amalonaticus 99.9%
50		-	+		+		Gram positive bacteria

COMMENTS: Bacteria identified under the genus *Vibrio* were not considered acceptable for expected IDs.

BACTERIOLOGY IDENTIFICATION

CHN: 08-39 **COLLECTION DATE** 4/14/2008 **LOCATION** Rio Grande (Site #3)
Lot# _____ Los Padillas site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1		-	-	-	+		Gram positive bacteria
5		-	-	-	-	1001000	Pasteurella pneumotropica/Mamnmheimia 49.7%
10	no growth						
12		+	-	-	-	0005024	Pasteurella pneumotropica/Mamnmheimia 90.7%
16		+	-	-	-	0005024	Pasteurella pneumotropica/Mamnmheimia 49.7%
19a		-	+		-	1155773	Raoultella ornithinolytic 85.3%
19b		-	+		-	1155773	Raoultella ornithinolytic 85.3%
21		+	+		-	6047104	A. hydrophila/caviae/sobria 2 97.1%
23	no growth						
24		+	-	-	-	2000004	Pseudomonas fluorescens/putida 54 %
27		+	+		-	7267004	A. hydrophila/caviae/sobria 2
28		+	+		-	7267004	A. hydrophila/caviae/sobria 2
36		-	+		-	1155773	Raoultella ornithinolytic 85.3%

COMMENTS: Bacteria identified under the genus Vibrio were not considered acceptable for expected IDs.

BACTERIOLOGY IDENTIFICATION

CHN: 08-37 **COLLECTION DATE** 4/9/2008 **LOCATION** Rio Grande (Site #6)
Lot# _____

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY	GRAM +/-	API CODE	IDENTIFICATION
No bacteria isolated.						

BACTERIOLOGY IDENTIFICATION

CHN: 08-36 **COLLECTION DATE** 4/8/2008 **LOCATION** Rio Grande (Site #4)
Lot# _____ Los Lunas site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
7		-	+	+	+		Gram + NO ID
9		+	-	+	-	0005004	Non Fermenter spp 65.7%
13		+	+	+	-	0005004	Non Fermenter spp 65.7%
14		-	-	+	+		Gram + NO ID
18		-	-	+	-	1155573	Yersinia frederiksenii/intermedia 79.8%
32		+	-	-	-	0004024	Pasteurella pneumotropica/Mannheimia 70.1%
57		+	+	+	-	7047107	A. hydrophila/caviae/sobria 2 50.8%
58		-	-	+	-	1155573	Yersinia frederiksenii/intermedia 79.8%

COMMENTS: Completed 4/25/08 MR

BACTERIOLOGY IDENTIFICATION

CHN: 08-27 **COLLECTION DATE** 1/30/2008 **LOCATION** Rio Grande (Site #1)
Lot# Bernalillo site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1a		-	-	-	+		Gram + No ID
1b		-	-	-	+		Gram + No ID
5a		+	-	-	-	0040004	Grimontia hollisae 83.2%
5b		+	-	-	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
7		+	-	-	-	0040004	Grimontia hollisae 83.2%
10		+	-	-	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
32		+	-	-	-	6047105	A. hydrophila/caviae/sobria 2 97.3%
34		+	-	-	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
38a		-	-	-	-	0001000	Pseudomonas orzyihabitans 40.0%
38b		-	-	-	-	0040000	Grimontia hollisae 57.1%
39a		-	-	-	-	0001000	Pseudomonas orzyihabitans 40.0%
39b		-	-	-	-	0000000	no id
43a		+	-	-	-	0001024	Pasteurella pneumontopica/Mannheimia 67.1%
43b		-	-	-	+		Gram + (no id)
60		+	+	+	-		A. hydrophila/caviae/sobria 2 82.7%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 08-26 **COLLECTION DATE** 1/29/2008 **LOCATION** Rio Grande (Site #2) Alameda site
Lot#

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1		-	+	+	-	100300	Pasteurella pneumotropica/Mannheimia haemolytica 37.9%
2		-	-	-	+		Gram positive bacteria
15a		-	-	-	+		Gram positive bacteria
15b		-	-	-	+		Gram positive bacteria
26a		-	+	+	-	0001020	Pasteurella pneumotropica/Mannheimia haemolytica 84.2%
26b		-	-	-	-	0006000	Burkholderia cepacia 41.9%
33		+	+	+	-	6047565	A. hydrophila/caviae/sobria 2 (no %)

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 08-25 **COLLECTION DATE** 1/28/2008 **LOCATION** Rio Grande (Site #3)
Lot# _____ Los Padillas site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
5a	NG						
5b		-	-	-	+		Gram + (No ID)
15		+	+	+	-	0005004	Non fermenter spp 31.8%
19a		+	+	+	-	0004004	Non fermenter spp 31.8%
19b		-	-	-	-	0004000	Non fermenter spp 31.8%
39		-	+	+	-	1155573	Yersinia frederiksenii/intermedia 79.8%

COMMENTS: NG = No Growth

BACTERIOLOGY IDENTIFICATION

CHN: 08-24 **COLLECTION DATE** 1/24/2008 **LOCATION** Rio Grande (Site #4)
Lot# SITE 4 PAGE 1of 2 Los Lunas site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
3		+	+		-	2206004	Chromobacterium violaceum 76.8%
6		+	+		-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
9		-	-	-	-	0005000	Pseudomonas oryzihabitans 50.3%
10a		+	+		-	2202004	Pseudomonas aeruginosa 67.1 %
10b		-	+		-	2003000	Pseudomonas fluorescens/putida 70.3 %
11		+	+		-	6007104	A. hydrophila/caviae/sobria2 90.0%
12a		+	+		-	3044127	Pasteurella pneumotropica 40.7%
12b		-	+		-	1001000	Pasteurella pneumotropica/Mannheimia 49.7%
13a		+	+		-	0000000	Non fermenter spp. 32.1%
13b		-	+		-	0001000	Pseudomonas oryzihabitans 40.0
14a		-	-	-	-	2002000	A. salmonicida/ssp/salmonicida 46.7
14b		+	+		-	2047104	A. hydrophila/caviae/sobria2 70.7%
15		+	+		-	2204044	Pseudomonas fluorescens/putida 76.3%
16		+	+		-	0004004	Non fermenter spp. 31.8%
18A		+	+		-	1047106	A. hydrophila/caviae/sobria2 95.9%
18b		+	+		-	6047167	A. hydrophila/caviae/sobria2 90.2%
18c		+	+		-	1047106	A. hydrophila/caviae/sobria2 95.9%
19		+	+		-	3047104	A. hydrophila/caviae/sobria2 82.0 %
19		+	+		-	2047104	A. hydrophila/caviae/sobria2 70 .7 %
21		+	+		-	2206004	Chromobacterium violaceum 95.9%
22		+	+		-	1047106	Pseudomonas fluorescens/putida 75.2%
23		+	+		-	1047106	A. hydrophila/caviae/sobria2 95.9%
24a		+	+		-	7047144	A. hydrophila/caviae/sobria2 98.2%
24b		+	+		-	7047144	A. hydrophila/caviae/sobria2 98.2%
24c		+	+		-	7047144	A. hydrophila/caviae/sobria2 98.2%
26a		+	+		-	7045127	A. hydrophila/caviae/sobria2 94.7%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 08-24 **COLLECTION DATE** 1/24/2008 **LOCATION** Rio Grande (Site #4)
Lot# Los Lunas site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
26b		+	+		-	7045127	A. hydrophila/caviae/sobria 1 94.7%
28		+	+		-	2047104	A. hydrophila/caviae/sobria 2 70.7%
29		+	+		-	2206044	Chromobacterium violaceum 76.8%
29		+	+		-	2206044	Chromobacterium violaceum 76.8%
30a		+	+		-	2201004	Pseudomonas fluorescens/putida 94.1%
30b		+	+		-	6047124	A. hydrophila/caviae/sobria 2 83.6%
31		-	+		-	5107160	Serratia marcescens 81.5%
32		-	+		-	0003000	Non fermenter spp. 64.5 %
33a		+	+		-	3047104	A. hydrophila/caviae/sobria 2 82.0%
33b		+	+		-	3047106	A. hydrophila/caviae/sobria 1 86.6%
35a		+	-	-	-	0000004	Non fermenter spp. 32.2 %
35b		+	+		-	2001004	Pseudomonas fluorescens/putida 82.2%
36a		+	+		-	2247104	A. hydrophila/caviae/sobria 2 97.2%
36b		+	+		-	2206044	Pseudomonas aeruginosa 69.2%
37		-	-	-	-	5304765	Serratia liquefaciens 75.6%
39		+	-	-	-	7045125	A. hydrophila/caviae/sobria 2 74.90%
40a		+	+		-	0003004	Non fermenter ssp 67.0%
40b		+	-	-	-	1005127	A. hydrophila/caviae/sobria 2 85.8%
40c		+	-	-	-	7045127	A. hydrophila/caviae/sobria 1 94.7%
40d		-	+		-	1003000	Pasteurella pneumotropica/ Mannheimia 37.9%
41 a		+	+		-	3047104	A. hydrophila/caviae/sobria 2 82.0%
41b		+	-	-	-	7045127	A. hydrophila/caviae/sobria 1 94.7%
43		-	+		-	1003000	Pasteurella pneumotropica/ Mannheimia 37.9%
44a		+	+		-	6006006	Pseudomonas aeruginosa 52.4%
44b		-	-	-	-	5307561	Serratia marcescens 95.9%
45		+	+		-	6047547	A. hydrophila/caviae/sobria 2 (no %)
47a		+	-	-	-	7045127	A. hydrophila/caviae/sobria 2 94.7%
47b		+	-	-	-	7045127	A. hydrophila/caviae/sobria 2 94.7%
48a		-	-	-	-	1205573	Rahnella aquatilis 78.4%
48b		+	+		-	1047104	A. hydrophila/caviae/sobria 2 41.8%

COMMENTS

BACTERIOLOGY IDENTIFICATION

CHN: 08-23 **COLLECTION DATE** 1/23/2008 **LOCATION** Rio Grande (Site #5)
Lot# La Joya site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
10		+	-		-	2206044	Pseudomonas aeruginosa 69.2%
11	no growth						
12a					-	3045127	A. hydrophilia/caviae/sobria 99.1%
12b		-	-		-	1001000	Pasteurella pneumotropica/Mannheimia 49.7%
13		+	+		-	2247044	Pseudomonas fluorescens/putida (no %)
16a		-	-		-	0005042	Acinetobacter baumannii/calcoaceticus 99.0%
16b		-	+		-	0005042	Acinetobacter baumannii/calcoaceticus 99.0%
17a		-	+		-	0000000	no id
17b		+	-		-	5104557	Serratia fonticola 73.6%
18a		+	+		-	5104557	Serratia fonticola 73.6%
18b		-	-		-	6067120	A. hydrophilia/caviae/sobria 99.1%
18c		+	+		-	3047106	A. hydrophilia/caviae/sobria 88.6%9.1%
20a		+	-		-	2003000	Pseudomonas fluorescens/putida 70.3
20b		-	-		-	1003000	Pasteurella pneumotropica/Mannheimia 37.9%
21a		+	-		-	2206046	Pseudomonas aeruginosa 76.4%
21b		+	+		-	2206004	Chromobacterium violaceum 76.8%
22		+	-		-	2206004	Chromobacterium violaceum 76.8%
23		+	-		-	2206004	Chromobacterium violaceum 76.8%
25A		+	+		-	2206044	Chromobacterium violaceum 76.8%
25B		+	+		-	2206046	Pseudomonas aeruginosa 76.4%
26		+	+		-	2206046	Pseudomonas aeruginosa 76.4%
28		+	-		-	2206046	Pseudomonas aeruginosa 76.4%
30		+	+		-	7347365	A. hydrophilia/caviae/sobria 2 99.8%
32		+	+		-	2201004	Pseudomonas fluorescens/putida 94.1%
33	slow grower	-	+		-	1005020	Pasteurella pneumotropica/Mannheimia 62.6%
37		+	+		-	220646	Pseudomonas aeruginosa 76.4%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 08-22 **COLLECTION DATE** 1/22/2008 **LOCATION** Rio Grande (Site #6)
Lot# San Antonio site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1		+	+		-	2206044	Pseudomonas aeruginosa 69.2 %
2a		+	+		-	2206004	Chromobacterium violaceum 76.8%
2b		-	+		-	2201000	Pseudomonas luteola 48%
6a		-	+		-	1003000	Pasteurlla pneumotropica/Mannheimia 37.9%
6b		+	+		-	0005004	Pasteurlla pneumotropica/Mannheimia 39.4 %
8a		+	+		-	0004004	Non-fermenter spp 65.7
8b		+	-		-	2201044	Non-fermenter spp 31.8%
12a		+	+		-	0402006	Pseudomonas fluorescens/putida 98.8%
12b		+	+		-	7047523	Shewanella putrefaciens gp. 99.1%
17		-	+		-	1000004	A. hydrophila/caviae/sobria 66.2%
20		+	-		-	2003042	Pasteurella pneumotropica/ Mannheimia haemolytica 46.2%
23		+	-		-	0602004	Pseudomonas fluorescens/putida 62.6%
24		-	-		-	0002000	Pseudomonas luteola 55.4%
25		+	+		-	0602004	Shewanella putrefaciens gp. 99.7%
31		-	-		-	0002000	Stenotrophomonas maltophilia 65.6%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 08-10 **COLLECTION DATE** October 31, 2007
Lot # **Location** Bernalillo (site #1)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
2a		+	-	-	-	0004004	non fermenter spp 31.8%
2b		+	-	-	-	0005004	non fermenter spp 65.7%
8a		+	+	+	-	7047125	A. hydrophila/caviae/sobria 2 89.8%
8b		+	-	-	-	3247104	A. hydrophila/caviae/sobria 2 98.2%
12a		+	-	-	-	2005004	P. fluorescens/putida 79.6%
12b		-	-	-	-	4147141	NO ID
12c		+	-	+	-	7047125	A. hydrophila/caviae/sobria 2 89.8%
13a		-	-	+	-	4301112	Hafnia spp 99.9%
13b		-	-	+	-	4301112	Hafnia alvei 99.9%
15a		+	-	-	-	0400004	Shewanella putrefaciens gp. 89%
15b		+	-	-	-	0004004	non fermenter spp 31.8%
15C		+	-	-	-	0400004	Shewanella putrefaciens gp. 89%
17		+	-	-	-	0000004	non fermenter spp 32.1 %
19A		+	-	+	-	3047106	A. hydrophila/caviae/sobria 2 86.6%
19B		+	+	+	-	3047106	A. hydrophila/caviae/sobria 2 86.6%
21A		+	+	+	-	3047104	A. hydrophila/caviae/sobria 2 82%
21B		+	+	+	-	3047104	A. hydrophila/caviae/sobria 2 82%
26		+	+	+	-	0003004	non fermenter spp. 67.0%
27		+	-	-	-	1005024	Pasteurella pneumoropica/Mannheimia 98.3%
29A		+	+	+	-	7247125	A hydrophila/caviae/sobria 2 99.9%
29B		+	-	+	-	7247125	A hydrophila/caviae/sobria 2 89.8%
30		+	+	+	-	7247125	A hydrophila/caviae/sobria 2 99%
43A		+	+	+	-	3247104	A hydrophila/caviae/sobria 2 98.2%
43B		+	+	+	-	3247104	A hydrophila/caviae/sobria 2 98.2%
11		+	-	-	-	0001000	Bordetella/Alcaligenes/Moraxella spp 43.1%
14		-	-	-	-	0000004	Non fermenter spp 32.1%
33		+	+	+	-	0003000	Non fermenter spp 64.5%
34		+	+	+	-	0030004	Non fermenter spp 67.0 %

Comments:

BACTERIOLOGY IDENTIFICATION

CHN: 08-10 **COLLECTION DATE** October 31, 2007

Lot # **Location** Site # 1 Bernalillo page 2 of 2

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
41a		+	-	-	-	0003004	Non fermenter spp 67%
41b		+	-	-	-	0003004	Non fermenter spp 67%
47		+	-	-	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
54		-	-	-	-	0004000	Shigella spp 81.6%
56		+	-	-	-	0000000	NO ID
57a		+	-	-	-	0010004	Bordetella/Alcaligenes/Moraxella spp 43.1%
57b		+	-	-	-	0010004	Bordetella/Alcaligenes/Moraxella spp 43.1%
57c		-	-	-	-	0010004	Bordetella/Alcaligenes/Moraxella spp 43.1%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 08-09 **COLLECTION DATE** 10/30/2007 **LOCATION** Rio Grande (Site #2) Alameda Site
Lot# _____

SAMPLE NUMBER	COLONY MORPHOL	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
4	light growth	-	-		+		Gram positive NO ID
5	light growth	-	-	-	-	0000000	NO ID
6A		+	+	+	-	1040064	Pasteurella pneumotropica/Mannheimia 81.2%
6b		+	-	-	-	0004004	Non fermenter spp 31.8%
8A		-	-	-	-	3247000	Pseudomonas luteola 71.4%
8b	light growth	-	+	+	-	0001000	Pseudomonas orzyihabitans 40%
8c		+	+	+	-	3247104	A. hydrophila/caviae/sobria2 98.2%
11		+	+	+	-	7247124	A. hydrophila/caviae/sobria2 98.8%
12A		-	+	+	+		Gram Positive No ID
12b		+	+	+	-	3046127	A. hydrophila/caviae/sobria2 67.0%
12c		+	-	-	-	7247124	A. hydrophila/caviae/sobria2 98.8%
12d		+	-	-	-	0001004	Bordetella/Allcalilgenes/Moraxella spp 43.1%
17a		+	-	-	-	5001004	Pasteurella pneumotropica/Mannheimia 55.5%
17b		+	-	-	-	7000400	Escherichia coli 2 53.6%
18a		+	-	-	-	1000004	Pasteurella pneumotropica/Mannheimia 46.2%
18B		-	-	-	-	1000004	Pasteurella pneumotropica/Mannheimia 31.8%
18C		+	-	-	-	1000004	Pasteurella pneumotropica/Mannheimia 46.2%
32A		+	-	-	-		Non fermenter spp 31.8%
32B		+	-	-	-	0004004	Non fermenter spp 31.8%
36		+	-	-	-	0005004	Non fermenter spp 65.7%
40		+	-	-	-	1047104	A. hydrophila/caviae/sobria2 41.8%
48		+	-	-	-	0000004	Non fermenter spp 32.1%
50A	light growth	+	-	-	-	1000004	Pasteurella pneumotropica/Mannheimia 46.2%
50B	no growth						NO GROWTH
53		+	+	+	-	1247104	A. hydrophila/caviae/sobria2 67.8%
54		+	-	-	-	0003004	Non fermenter spp 67.0%
15		-	-	-	-	0001000	Pseudomonas orzyihabitans 40%
20		+	-	-	-	0010004	Bordetella/Allcalilgenes/Moraxella spp 43.1%
43		-	-	-	-	0001000	Pseudomonas orzyihabitans 40%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 08-08 **COLLECTION DATE** 10/29/2007 **LOCATION** Rio Grande (Site#3) Bernalillo site

Lot# _____

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
7		-	+	+	-	3304553	Enterobacter amnigenus 2 83.3%
9a		-	+	+	-	0000000	No ID
9b		-	+	+	-	0000000	No ID
9c		-	+	+	-	0000000	No ID
13		-	-	-	-	0001000	Pseudomonas oryzihabitans 40%
16		-	-	-	-	0004000	Shigella spp 86.1%
19		+	+	+	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
20a		+	-	+	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
20b		-	+	+	-	0001000	Pseudomonas oryzihabitans 40%
20c		+	-	-	-	0001004	Bordetella/Alcaligenes/Moraxella 43.1%
21		+	+	+	-	3046106	A. hydrophila/caviae/sobria 1 95.4%
25		+	+	+	-	0001004	Bordetella/Alcaligenes/Moraxella 43.1%
28a		+	+	+	-	3046127	A. hydrophila/caviae/sobria 1 67.0%
28b		+	+	+	-	3046127	A. hydrophila/caviae/sobria 1 67.0%
29a		+	-	-	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
29b		+	-	-	-	005004	non-fermenter spp 65.7%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 08-07 **COLLECTION DATE** 10/25/2007 **LOCATION** Rio Grande (Site #4) Los Lunas
Lot# _____

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
21a		+	+	+	-	7257126	A. hydrophila/caviae/sobria2 65.3%
21b		+	+	+	-	7576987	Serratia odorifera 2
57a		+	+	+	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
57b		+	+	+	-	0000004	Non fermenter spp 32.1%

COMMENTS: ID ALL BACTERIA

BACTERIOLOGY IDENTIFICATION

CHN: 08-06 **COLLECTION DATE** 10/24/2007 **LOCATION** Rio Grande (Site #5)
Lot# _____ La Joya

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
13		+	+		-	7047524	A. hydrophilia/caviae/sobria 2 96.5%
20		-	-	-	-	1005702	Serratia plymuthica 35.4%

COMMENTS: ID ALL BACTERIA

BACTERIOLOGY IDENTIFICATION

CHN: 08-05 **COLLECTION DATE** 10/23/2007 **LOCATION** Rio Grande (Site #6)
Lot# _____ San Antonio Site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
2a		-	+		-	1003000	Pasteurella pneumotropica/Mannheimia/haemolytica 37.9%
2b		-	+		-	1003000	Pasteurella pneumotropica/Mannheimia/haemolytica 37.9%
5		+	+		-	7046123	Aermonas hydrophila/caviad/sobria 1 98.4 %

COMMENTS: ID ALL BACTERIA

BACTERIOLOGY IDENTIFICATION

CHN: 07-36 **COLLECTION DATE** 4/26/2007 **LOCATION** Rio Grande (Site #1)
Lot# _____ Bernalillo site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
7		+	+	+	-	0004000	Shigella spp 81.6%
9		+	+	+	-	3047104	A. hydrophila/caviae/sobria 2 82%
10		-	-	-	-	3047104	A. hydrophila/caviae/sobria 2 82%
14		+	+	+	-	3047104	A. hydrophila/caviae/sobria 2 82%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 07-35 **COLLECTION DATE** 4/24/2007 **LOCATION** Rio Grande (Site #2) Alameda site
Lot# _____

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
9a		-	-	-	-	1155773	Raoultella ornithinolytica 85.3%
9b		-	-	-	-	1003000	Pasteurella pneumotropica/Mannheimia haemolytica 37.9%
15a		-	-	-	-	1155773	Raoultella ornithinolytica 85.3%
15b		+	+	+	-	6047105	A. hydrophila/caviae/sobria 2 97.3%
29		+	+	+	-	6047105	A. hydrophila/caviae/sobria 2 97.3%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 07-34 **COLLECTION DATE** 4/24/2007 **LOCATION** Rio Grande (Site #3) Los Padilles
Lot# _____

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
4		+	+	+	-	4147544	Vibrio alginolyticus 10%
13		+	+	+	-	4146544	Vibrio parahaemolyticus

COMMENTS: Bacteria above identified as Vibrio are likely not Vibrio sp.

BACTERIOLOGY IDENTIFICATION

CHN: 07-33 **COLLECTION DATE** 4/19/2007 **LOCATION** Rio Grande (Site #4)
Lot# _____ Los Lunas site

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
4		+	+		-	3047125	A. hydrophila/caviae/sobria 1 98.4%
7		+	+		-	5147164	Doubtful ID
13		+	+		-	7047127	A. hydrophila/caviae/sobria 1 85.9%
14		+	+		-	6047125	A. hydrophila/caviae/sobria 1 85.3%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 07-32 **COLLECTION DATE** 4/18/2007 **LOCATION** Rio Grande (Site #5)
Lot# _____

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1		+	-	+	-	7047525	A. hydrophila/caviae/sobria 2 96.5%
9		+	-	+	-	7247105	A. hydrophila/caviae/sobria 2 98.8%
11		+	+	+	-	3047125	A. hydrophila/caviae/sobria 1 98.4%
15a		-	-	-	-	0203000	Pseudomonas oryzihabitans 64.1%
15b		+	+	+	-	7007127	A. hydrophila/caviae/sobria 1 85.9%
16		+	-	-	-	0203004	Non fermenter spp 43.6%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 07-21 **COLLECTION DATE** 2/1/2007 **LOCATION** Los Lunas
Lot# Site #4

SAMPLE NUMBER	COLONY	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
11		+	+		-	0203004	Non-fermenter spp 43.6%
16		-	-	-	-	1355773	Raoultella ornithinolytica 98.9%
38a		+	-	-	-	0403004	Shewanella putrefaciens gp 73.7%
38b		+	-	-	-	0502004	Shewanella putrefaciens 99.9%
39		+	+		-	0502004	Shewanella putrefaciens 99.9%
41		+	-	+	-	0502004	Shewanella putrefaciens 99.9%
42		+	-	+	-	0502004	Shewanella putrefaciens 99.9%
43		+	+		-	0502004	Shewanella putrefaciens 99.9%
46		+	-	+	-	0502004	Shewanella putrefaciens 99.9%
47		+	-	+	-	0502004	Shewanella putrefaciens 99.9%
51a		+	+		-	0503006	Shewanella putrefaciens gp 99.9%
51b		+	-	+	-	0502004	Shewanella putrefaciens gp 99.9%
52		+	-	+	-	0506004	Shewanella putrefaciens gp 99.8%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 07-20 **COLLECTION DATE** 1/31/2007 **LOCATION** La Joya
Lot# site # 5

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
8		-	+		-	1155673	Raoultella ornithinolytica 98.9%
9		-	-	+	-	1155573	Yersinia frederiksenii/intermedia 79.8%
14			-	-	-	0001000	Pseudomonas oryzihabitians 40%
15		-	+		-	1155573	Yersinia frederiksenii/intermedia 79.8%
16		-	+		-	1155573	Yersinia frederiksenii/intermedia 79.8%
17		-	+		-	1155573	Yersinia frederiksenii/intermedia 79.8%
20a		-	+		-	1155573	Yersinia frederiksenii/intermedia 79.8%
21		-	-	-	-	1155573	Yersinia frederiksenii/intermedia 79.8%
22a		-	-	+	-	1155573	Yersinia frederiksenii/intermedia 79.8%
22b		-	-	-	-	1155573	Yersinia frederiksenii/intermedia 79.8%
23		-	-	-	-	1155573	Yersinia frederiksenii/intermedia 79.8%
29a		-	-	-	-	3046123	Aeromonas hydrophilia/caviae/ 67%
29b		-	-	-	-	1155573	Yersinia frederiksenii/intermedia 79.8%
25a		+	+		-	1155777	Raoultella ornithinolytica 98.9%
25b		-	-	-	-	1175773	Raoultella ornithinolytica 98.9%
26		-	-	-	-	1155573	Yersinia frederiksenii/intermedia 79.8%
27a		-	-	+	-	1155773	Raoultella ornithinolytica 98.9%
27b		+	-	-	-	7047025	Aeromonas hydrophilia/cabiae/ 89.9%
28		-	-	-	-	1155573	Yersinia frederiksenii/intermedia 79.8%
34		+	-	-	-	1155577	Yersinia frederiksenii/intermedia
38a		+	+		-	7047124	Aeromonas hydrophilia/caviae/ 89.9%
38b		+	-	-	-	7047124	Aeromonas hydrophilia/caviae/ 89.6%
40		+	+		-	4347124	Vibrio alginolyticus
46a		+	+		-	7247777	Raoultella ornithinolytica 98.9%
46b		-	+		-	1355773	Raoultella ornithinolytica 98.9%
49		+	-	-	-	0041004	Grimontia hollisae 45.3%
53		-	-	-	-	1355773	Raoultella ornithinolytica 98.9%
56		-	-	-	-	1355773	Raoultella ornithinolytica 98.9%
57a		-	-	-	-	1155573	Yersinia frederiksenii/intermedia 79.8%
57b		-	+		-	1175776	Raoultella ornithinolytica
59a		-	-	-	-	1357776	Serratia odorifera 1 67.4%
59b		-	+		-	3357773	Enterobacter sakazakii 99.6%
60a		+	+		-	7047137	Aeromonas hydrophila/caviae 96.7%
60b		-	-	-	-	1155573	Yersinia frederiksenii/intermedia 79.8%

COMMENTS: 07-20

BACTERIOLOGY IDENTIFICATION

CHN: 07-19 **COLLECTION DATE** 1/30/2007 **LOCATION** San Antonio - site 6
Lot# _____

SAMPLE NUMBER	COLONY MORPHO	C/O	MOTILITY		GRAM +/-	API CODE	IDENTIFICATION
1		-	+		-	1355573	Raoultella ornithinolytica 94.4%
18		+	+		-	0402004	Shewanella putrefaciens gp. 99.0%
20a		+	+		-	7157537	Aermonas hydrophila/caviae/sobria
20b		+	+		-	0402004	Shewanella putrefaciens gp 99.0%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 07-18 **COLLECTION DATE** 1/24/2007 **LOCATION** Rio Grande (Site #2)
Alameda Site

SAMPLE NUMBER	COLONY MORPH	C/O	MOTILITY	GRAM +/-	API CODE	IDENTIFICATION
11		-	+	-	1155573	*Yersinia frederiksenii/intermedia 79.8%*
12		-	+	-	1155573	*Yersinia frederiksenii/intermedia 79.8%*
13a		-	+	-	1155573	*Yersinia frederiksenii/intermedia 79.8%*
13b		-	+	-	1155577	*Yersinia frederiksenii/intermedia*
16		-	+	-	0005000	*Pseudomonas oryzihabitans 50.3%*

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 07-17 **COLLECTION DATE** 1/23/2007 **LOCATION** Rio Grande (Site #3)
Los Padillas site

SAMPLE NUMBER	COLONY MORPH	C/O	MOTILITY	GRAM +/-	API CODE	IDENTIFICATION
1		-	+	-	1555373	*Enterobacter gergoviae 82.1%*
3		+	+	-	3247104	Aeromonas hydrophila/caviae/sobria 92.8%
4a		+	+	-	0203004	API could not ID
4b		+	+	-	0203004	API could not ID
8		-	+	-	1055573	Klebsiella oxytoca 84.2%
12		+	+	-	0503006	Shewanella putrefaciens group 99.8%
13		+	+	-	7267124	Aeromonas hydrophila/sobria 2 98.8%
14		+	+	-	2247104	Aeromonas hydrophila/sobria 2 97.2%
19		-	+	-	10555735	Klebsiella oxytoca 84.2%
23		+	+	-	0001004	Bordetella/Alcaligenes/Moraxella spp 43.1%
29		+	+	-	2206044	Pseudomonas aeruginosa 69.2%
33		+	+	-	0005024	Pasteuerella pneumotropica 90.7%
27		-	+	-	1355573	Raoultella ornithinolytica 94.4%

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 07-05 **COLLECTION DATE** October 18, 2006 **LOCATION** La Joya - Site #5

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
48		-		+			Gram positive bacteria
24		-	-	-	0001000		40.0% Pseudomonas oryzihabitans
47		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
44a		-	-	-	0001000		40.0% Pseudomonas oryzihabitans
44b		-	-	-	0001000		40.0% Pseudomonas oryzihabitans
43		-	+	-	5305112		99.9% Hafnia alvei 1
27		+	+	-	5305116		99.9% Hafnia alvei 1
33		+		+			Gram positive bacteria
28		-	-	-	0001000		40.0% Pseudomonas oryzihabitans
10a		-	+	-	7647120		Unacceptable profile
10b		-	+	-	0001000		40.0% Pseudomonas oryzihabitans
34		-		+			Gram positive bacteria
20		+	+	-	7007127		85.9% Aeromonas hydrophila/caviae/sobria 1
5		-	-	-	0001000		40.0% Pseudomonas oryzihabitans
30a		+	+	-	3004024		96.8% Vibrio fluvialis
30b		+	+	-	3046167		95.6% Aeromonas hydrophila/caviae/sobria 1
31		-	-	-	0001000		40.0% Pseudomonas oryzihabitans
46a		+	+	-	7247145		99.8% Aeromonas hydrophila/caviae/sobria 2
46b		+	+	-	7247145		99.8% Aeromonas hydrophila/caviae/sobria 2
45		+	-	-	0703026		Unacceptable profile
40		-	+	-	1003000		37.9% Pasteurella pneumotropica/Mannheimia haemolytica
55		+	+	-	2206044		69.2% Pseudomonas aeruginosa
35		-	+	-	0001000		40.0% Pseudomonas oryzihabitans
4		+	-	-	0001004		43.1% Bordetella/Alcaligenes/Moraxella spp
42		+	-	-	0001004		43.1% Bordetella/Alcaligenes/Moraxella spp
23		-	-	-	0001000		40.0% Pseudomonas oryzihabitans
1		-	+	-	1005133		99.3% Pantoea spp 3
41		-	+	-	1004022		84.6% Pantoea spp 1

COMMENTS: Plated 10/20/06, picked 10/23/06, CO 10/24/06, motility 10/31/06.

BACTERIOLOGY IDENTIFICATION

CHN: 07-04 **COLLECTION DATE** October 17, 2006 **LOCATION** Los Padillas - Site #3

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
22		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
23		+	-	+			Gram positive bacteria
20		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
21		+	+	-	3046127		67.0% Aeromonas hydrophila/caviae/sobria 1
17		+	+	-	7047527		66.2% Aeromonas hydrophila/caviae/sobria 1
19		-	-	+			Gram positive bacteria
33		+	+	-	7047124		89.6% Aeromonas hydrophila/caviae/sobria 2
15		+	+	-	0702024		99.9% Shewanella putrefaciens grp
16		-	-	+			Gram positive bacteria
18		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
29		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
31		+	+	-	3047127		98.4% Aeromonas hydrophila/caviae/sobria 1
32		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
25		+	+	-	7047124		89.6% Aeromonas hydrophila/caviae/sobria 2
26		+	+	-	3047106		86.6% Aeromonas hydrophila/caviae/sobria 1
28		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
24	too light to id						Too lite to ID
12		+	+	-	3045527		98.3% Aeromonas hydrophila/caviae/sobria 1
13		+	+	-	7047124		89.6% Aeromonas hydrophila/caviae/sobria 2
14		-	-	-	0001000		40% Pseudomonas oryzihabitans
6		+	+	-	7247125		99.0% Aeromonas hydrophila/caviae/sobria 2
7		+	+	-	3047137		99.7% Aeromonas hydrophila/caviae/sobria 1
8		+	+	-	7047127		85.9% Aeromonas hydrophila/caviae/sobria 1
9		+	+	-	7246125		89.8% Aeromonas hydrophila/caviae/sobria 2
10		-	+	-	1005533		87.9% Rahnella aquatilis
11		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
1		+	+	-	0402004		99.0% Shewanella putrefaciens grp
2		+	+	-	7047127		85.9% Aeromonas hydrophila/caviae/sobria 1
3		+	+	-	7247127		65.3% Aeromonas hydrophila/caviae/sobria 2
4		+	+	-	0402004		99.0% Shewanella putrefaciens grp

COMMENTS: plated 10/20/06, picked 10/23/06

BACTERIOLOGY IDENTIFICATION

CHN: 07-03 **COLLECTION DATE** October 16, 2006 **LOCATION** Los Lunas Site #4

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
23		+	+	-	7202042		99.9% Pseudomonas luteola
59		+	+	-	3047127		98.4% Aeromonas/hydrophila/caviae/sobria 2
21		+	+	-	5347125		99.3% Vibrio cholerae
56		+	-	-	1042004		99.2% Chryseobacterium meningosepticum
7a		+	+	-	0201004		59.8% Bordetella/Alcaligenes/Moraxella spp
7b		+	+	-	0201004		59.8% Bordetella/Alcaligenes/Moraxella spp
46a		+	+	-	7047125		89.8% Aeromonas/hydrophila/caviae/sobria 2
46b		+	+	-	7047125		89.8% Aeromonas/hydrophila/caviae/sobria 2
1		-	-	-	0001000		40% Pseudomonas oryzihabitans
27		+	+	-	7247124		98.8% Aeromonas/hydrophila/caviae/sobria 2
45		+	+	-	0001004		43.1% Bordetella/Alcaligenes/Moraxella spp
16		+	+	-	3047127		98.4% Aeromonas/hydrophila/caviae/sobria 1
55		+	+	-	3047504		93.7% Aeromonas/hydrophila/caviae/sobria 2
43	light growth	-	-	+			Gram positive bacteria
8		+	+	-	7047527		66.2% Aeromonas/hydrophila/caviae/sobria 1
34a		+	+	-	2202004		67.1% Pseudomonas aeruginosa
34b		+	+	-	2206004		76.8% Chromobacterium violaceum
57		-	-	+			Gram positive bacteria
41		-	-	-	0003000		64.5% Non-fermenter spp
44		+	+	-	7047527		66.2% Aeromonas/hydrophila/caviae/sobria 1
37		+	+	-	7447527		Unacceptable profile
18		+	+	-	7047127		85.9% Aeromonas/hydrophila/caviae/sobria 1
15		-	-	-	2005042		86.8% Pseudomonas luteola
11	light growth	+	-	+			Gram positive bacteria
33	light growth	-	-	+			Gram positive bacteria
32		-	-	-	0005020		87.3% Pasteurella pneumotropica/Mannheimia haemolytica
19		+	+	-	7247124		98.8% Aeromonas/hydrophila/caviae/sobria 2
31		+	-	-	1001004		60.5% Ochrobactrum anthropi
54	light growth	+	-	-	1044044		94.3% Pasteurella pneumotropica/Mannheimia haemolytica
43	light growth	-	-	+			Gram positive bacteria

COMMENTS: Plated 10/20/06, picked 10/23/06

BACTERIOLOGY IDENTIFICATION

CHN: 07-03 **COLLECTION DATE** October 16, 2006 **LOCATION** Los Lunas Site #4

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
10		+	+	-	0502004		99.9% Shewanella putrefaciens group
20		-	-	-	0001004		43.1% Bordetella/Alcaligenes/Moraxella spp
17		+	+	-	2206044		69.2% Pseudomonas aeruginosa
36		+	+	-	3047127		98.4% Aeromonas hydrophila/caviae/sobria 1
13a		-	+	+			Gram positive bacteria
13b	light growth	-	-	+			Gram positive bacteria
49	light growth	+	+	+			Gram positive bacteria
3		+	+	-	050204		99.9% Shewanella putrefaciens group

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 07-02 **COLLECTION DATE** October 12, 2006 **LOCATION** MRG- Alameda (Site#2)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
8A		+	+	-	3247104		98.2% Aeromonas hydrophila/caviae/sobria 2
8B		+	+	-	7247125		99.0% Aeromonas hydrophila/caviae/sobria 2
10		+	+	-	7247125		99.0% Aeromonas hydrophila/caviae/sobria 2
11		+	+	-	7247525		99.6% Aeromonas hydrophila/caviae/sobria 2
13		-	-	-	1105153		69.2% Enterobacter amnigenus 1
24A		+	-	-	0005014		76.7% Non-fermenter spp
24B	No growth						No growth
25		-		+			Gram positive bacteria
29A		+	+	-	7207124		99.0% Aeromonas hydrophila/caviae/sobria 2
29B		+	+	-	0005004		65.7% Non-fermenter spp
30A		+	+	-	7207124		99.0% Aeromonas hydrophila/caviae/sobria 2
30B		+	+	-	7207125		99.0% Aeromonas hydrophila/caviae/sobria 2
31		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
36		-		+			Gram positive bacteria
38		-		+			Gram positive bacteria
40		+	+	-	0005004		65.7% Non-fermenter spp
49		+	+	-	0005004		65.7% Non-fermenter spp
50		+	+	-	0005004		65.7% Non-fermenter spp
54		+	+	-	3047106		86.6% Aeromonas hydrophila/caviae/sobria 1

COMMENTS: Rio Grande silvery minnow. CO, & KOH test on 10-19-6 from 24hr old growth.

BACTERIOLOGY IDENTIFICATION

CHN: 07-01 **COLLECTION DATE** October 11, 2006 **LOCATION** MRG- Bernalillo (Site#1)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
1		+		+			Gram positive bacteria
2		-	+	-	1004022		84.6% Pantoea spp 1
4A		+	+	-	0005004		65.7% Non-fermenter spp
4B		-	-	-	1004022		84.6% Pantoea spp 1
14		+	+	-	3047304		97.7% Aeromonas hydrophila/caviae/sobria 2
15A		+	+	-	3047304		97.7% Aeromonas hydrophila/caviae/sobria 2
15B		-	-	-	1004022		84.6% Pantoea spp 1
21		+	-	-	0002004		34.1% Myroides spp/Chryseobacterium indologenes (24.5% Aeromonas salmonicida ssp salmonicida) ***
23		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
26		+	-	-	0004004_4		31.8% Non-fermenter spp (19.4% A. sal.) ***
29		+	+	-	0005004		65.7% Non-fermenter spp
30		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
35		+	+	-	0502004		99.9% Shewanella putrefaciens grp
37		-	-	-	1004022		84.6% Pantoea spp 1
43		+	-	-	004004_4		31.8% Non-fermenter spp (19.4% A. sal.) ***
44		+	+	-	0005004		65.7% Non-fermenter spp
49		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
51		+	+	-	7247124		98.8% Aeromonas hydrophila/caviae/sobria 2
58		-	-	-	1004022		84.6% Pantoea spp 1
60		-	-	-	1004022		84.6% Pantoea spp 1

COMMENTS: Rio Grande silvery minnow. CO, & KOH test on 10-19-6 from 24hr old growth. TSB on 10/26/06. ***API suggested small possibility that bacteria may be Aeromonas salmonicida ssp salmonicida, but further testing ruled out possibility.

BACTERIOLOGY IDENTIFICATION

CHN: 06-36 **COLLECTION DATE** July 28, 2006 **LOCATION** Bernalillo - Site #1

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
1		+	-	-			Too light to identify
2a		-	+	+			Nontarget Pathogen
2b		+	-	-			Too light to identify
2c		-	-	-	0021000/ 0001000		45.2% Ochrobactrum anthropi or 40.0% Pseudomonas oryzihabitans
3a		+	+	-	2225004/ 2205004		90.7% Pseudomonas fluorescens
3b		+	+	-	7247125		99.0% Aeromonas hydrophila grp 2
5		+	-	-	0021004/ 0001004		61.6% Bordetella
7		+	-	-			Too light to identify
9		+	+	-	0021004/ 0001004		61.6% Bordetella
10		-	-	-	2226000		59.5% Chromobacterium violaceum
11a		+	+	-	7067125		89.8% Aeromonas hydrophila grp 2
11b		+	+	-	7067124		89.6% Aeromonas hydrophila grp 2
12			-	-			Too light to identify
15		+	+	-			Too light to identify
16		-	+	-	3321573		97.5% Enterobacter cloacae
17		+	-	-			Too light to identify
20		+	-	-	0021004/ 0001004		61.6% Bordetella
22		+	-	-	1002004		87.5% Chryseobacterium meningosepticum
24		-	-	-	0021000/ 0001000		45.2% Ochrobactrum anthropi or 40.0% Pseudomonas oryzihabitans
25		-	-	+			Nontarget Pathogen
28		-	-	-	1202000		96.7% Stenotrophomonas maltophilia
29		+	+	+			Nontarget Pathogen
30		+	+	-	0011004		48.3% Ochrobactrum anthropi
31		-	+	-	0022000/ 1002000		92.2% Stenotrophomonas maltophilia
32		-	+	-	3305573		95.1% Enterobacter cloacae
33		+	+	+			Nontarget Pathogen
34		-	-	+			Nontarget Pathogen
35		+	+	-			Too light to identify
39a		+	+	-			Too light to identify
39b		+	+	+			Nontarget Pathogen

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-36 **COLLECTION DATE** July 28, 2006 **LOCATION** Bernalillo - Site #1

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
40		+	+	-	0000004		32.1% Non-fermenter spp
41		+	+	-			Too light to identify
42		+	+	+			Nontarget Pathogen
44		-	+	+			Nontarget Pathogen
45		+	+	-			Too light to identify
46		+	+	-			Too light to identify
47		+	-	-	3305577		95.1% Enterobacter cloacae
48		+	-	-			Too light to identify
49		+	+	+			Nontarget Pathogen
50		+	-	+			Nontarget Pathogen
51		+	-	-			Too light to identify
52a		+	-	-			Too light to identify
52b		+	-	-			Too light to identify
53a		+	+	-			Too light to identify
53b			-	-			Too light to identify
55		-	+	+			Nontarget Pathogen
56		+	+	-			Too light to identify
58a		+	+	-			Too light to identify
58b		+	-	-			Too light to identify
60a		+	+	+			Nontarget Pathogen
60b		+	+	-			Too light to identify
21		-	-	+			Nontarget Pathogen
27		-	-	-	1001000		49.7% Pasteurella pneumotropica

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-35 **COLLECTION DATE** July 28, 2006 **LOCATION** Rio Grande (Alameda - Site #2)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
2a		+	+	-	7267124		98.8% Aeromonas hydrophila grp 2
2b		+	+	-			Too light to identify
3a		+	+	-	0013004		86.7% Myroides spp/Chryseobacterium indologenes
3b		+	+	-	7246124		89.3% Aeromonas hydrophila grp 2
4a		+	-	-	6220044		Unacceptable profile
4b		+	+	+			Nontarget pathogen
6		-	+	-	7125200		Unacceptable profile
11a		+	+	+			Nontarget pathogen
11b		+	+	-			Too light to identify
12a		+	+	-	7067124		89.6% Aeromonas hydrophila grp 2
12b		+	+	-	0044156		51.2% Shigella spp
17		-	-	-	0004000		81.6% Shigella spp
18		-	+	+			Nontarget pathogen
20		+	+	-	7067127		85.9% Aeromonas hydrophila grp 1
21		+	+	-	3067167		Unacceptable profile
23a		+	+	-	1003004		39.4% Pasterurella pneumotropica
23b		+	+	-	7067104		98.1% Aeromonas hydrophila grp 2
26		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
27		+	+	-	3067127		98.4% Aeromonas hydrophila grp 1
28		+	+	-			Too light to identify
29a		+	+	+			Nontarget pathogen
29b		+	+	-	7007127		85.9% Aeromonas hydrophila grp 1
30a		+	+	-	2221044		98.8% Pseudomonas fluorescens/putida
30b		+	+	-	2221044		98.8% Pseudomonas fluorescens/putida
32a		+	+	-	7267125		99.0% Aeromonas hydrophila grp 2
33		+	+	+			Nontarget pathogen
35a		+	+	-			Too light to identify
35b		+	+	-	1001004		60.5% Ochrobactrum anthropi
36		+	+	-	3066127		67.0% Aeromonas hydrophila grp 1
37		+	+	-	2066577		Unacceptable profile

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-35 **COLLECTION DATE** July 28, 2006 **LOCATION** Rio Grande (Alameda - Site #2)

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
38		+	+	-			Slow grower, could not identify
39a		+	+	+			Nontarget pathogen
39b		-	-	-			Too light to identify
40a		+	+	-			Fungal Contamination
40b		+	+	+			Nontarget pathogen
41a		+	+	-	1166327		Unacceptable profile
41b		+	+	-	3046127		67.0% Aeromonas hydrophila grp 1
42		+	+	-			Too light to identify
43a		+	+	-	3066054		Unacceptable profile
43b		+	+	-	3321117		Unacceptable profile
44		-	+	+			Nontarget pathogen
45a		+	+	-	7066127		98.4% Aeromonas hydrophila grp 1
45b		+	+	-	3046127		67.0% Aeromonas hydrophila grp 1
46		+	+	+			Nontarget pathogen
47a		+	+	+			Nontarget pathogen
47b		+	+	-			Nothing recovered
48a		+	+	-			Too light to identify
48b		+	+	-	1204153		63.0% Buttiauxella agrestis
49a		+	+	-	7267124		98.8% Aeromonas hydrophila grp 2
49b		+	+	-			Slow grower, could not identify
50a		-	+	+			Nontarget pathogen
50b		+	+	+			Nontarget pathogen
52		+	+	-	7066127		98.4% Aeromonas hydrophila grp 1
57a		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
57b		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
58a		+	+	-	7247125		99.0% Aeromonas hydrophila grp 2
58b		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
58c		+	+	-	0000004		32.1% Non-fermenter spp
59		+	+	-	7067127		85.9% Aeromonas hydrophila grp 1
53a		+	+	+			Nontarget pathogen

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-35 **COLLECTION DATE** July 28, 2006 **LOCATION** Rio Grande - Site #2
Alameda site

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
53b		+	+	-			Too light to identify
54a		+	+	-	1704557		99.9% Citrobacter braakii
54b		-	+	+			Nontarget Pathogen
55a		+	+	-			Too light to identify
55b		+	+	-			Too light to identify
56		+	+	-			Too light to identify
1		-	+	+			Nontarget Pathogen

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-34 **COLLECTION DATE** July 28, 2006 **LOCATION** Los Padillas - Site #3

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
2		+	+	+			Nontarget Pathogen
3a		+	+	+			Nontarget Pathogen
3b		+	+	-	3046127		67.0% Aeromonas hydrophila grp 1
11a		+	+	-	7267124		98.8% Aeromonas hydrophila grp 2
11b		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
12a		-	+	-	1204552		58.7% Citrobacter freundii
12b		-	+	+			Nontarget Pathogen
13a		+	+	-			Too light to identify
13b		-	+	-	7144200		99.9% Plesiomonas shigelloides
13c		+	+	-	7144204		99.9% Plesiomonas shigelloides

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-28 **COLLECTION DATE** July 21, 2006 **LOCATION** Los Lunas - Site #4

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
1a		+	+	-			Too light to identify
1b		-	+	-			Too light to identify
3a		-	-	-	2023000		Pseudomonas fluorescens/putida
3b		-	-	-	2023000/ 2003000		70.3% Pseudomonas fluorescens
3c		+	+	-			Too light to identify
5a		-	+	+			Nontarget Pathogen
6a		+	+	-			Too light to identify
6b		-	+	-	1023000/ 1003000		37.9% Pasteurella pheumotropica
6c		+	+	-			Too light to identify
7a		+	+	-			Too light to identify
7b		-	+	-			Too light to identify
7c		-	-	-	0020000		49.9% Ochrobactrum anthropi
7d		+	+	-	2201004		94.1% Pseudomonas fluorescens
8a		+	+	-			Too light to identify
9a		+	+	-			Too light to identify
9b		-	+	-	0023000/ 0003000		Bordetella/Alcaligenes/Moraxella spp or Non-fermenter spp
9c		-	+	-			Too light to identify
9d		+	+	-	2270044		Pseudomonas aeruginosa
10a		-	+	+			Nontarget Pathogen
10b		+	+	-			Too light to identify
11a		+	+	-			Too light to identify
11b		+	+	+			Nontarget Pathogen
12a		+	+	-			Too light to identify
12b		+	+	-	1020004/ 1000004		85.9% Ochrobactrum anthropi or 46.2% Pasteurella pneumotropica
13a		-	+	-			Too light to identify
15a		+	+	-			Too light to identify
15b		+	+	-			Too light to identify
17a		+	+	+			Nontarget Pathogen

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-28 **COLLECTION DATE** page 2 **LOCATION** Los Lunas - Site #4

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
18a		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
18b		+	+	-			Too light to identify
18c		+	+	-			Too light to identify
19a		+	+	-	7047137		96.7% Aeromonas hydrophila grp 1
19b		+	+	-			Too light to identify
21a		+	+	-			Too light to identify
21b		+	+	-			Too light to identify
23a		+	+	-			Too light to identify
23b		+	+	-			Too light to identify
24a		+	+	-			Too light to identify
24b		+	+	+			Nontarget Pathogen
25a		+	+	-			Too light to identify
25b		+	+	-			Too light to identify
25c		+	+	-			Too light to identify
26a		+	+	-			Too light to identify
26b		+	+	-			No growth
27a		+	-	-			No growth
27b		+	+	-	7067127		85.9% Aeromonas hydrophila grp 1
28a		+	+	-			Too light to identify
28b		+	+	-			Too light to identify
29a		+	-	+			Nontarget Pathogen
29b		+	+	-			Too light to identify
29c		+	+	-			Too light to identify
29d		+	+	-			Too light to identify
29e				+			Nontarget Pathogen
29f		+	+	-			Too light to identify
30a			+	-			Too light to identify

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-28 **COLLECTION DATE** page 3 **LOCATION** Los Lunas - Site #4

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
31a		+	+	-	7047127		85.9% *Aeromonas hydrophila* grp 1
32a		+	+	-			Too light to identify
33a		+	+	-			No growth
34a		+	+	-			Too light to identify
34b		+	+	-			No growth
35a		+	+	-			Too light to identify
36a		+	+	-			Too light to identify
36b		+	+	-			Too light to identify
37a		+	+	-			Too light to identify
37b		+	+	+			Nontarget Pathogen
39a		+	+	-			Too light to identify
39b		+	+	-			Too light to identify
40a		+	+	-			Too light to identify
41a		+	+	-			No growth
42a		+	+	-			No growth
42b		+	+	-			Too light to identify
43a		+	+	-			Too light to identify
44a		+	+	-			Too light to identify
47a		+	+	-			Slow grower, unable to ID
48a		+	+	-			Slow grower, unable to ID
49a		+	+	-			No growth
50a		+	+	-			No growth
50b		+	+	-			No growth
51a		+	+	+			Nontarget Pathogen
52a		+	+	-			Too light to identify
53a		+	+	-			Too light to identify
54a		+	+	-			Too light to identify
56a		+	+	-			Too light to identify
56b		+	+	-			Too light to identify
58a		+	+	-			Too light to identify

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-28 **COLLECTION DATE** page 4 **LOCATION** Los Lunas - Site #4

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
58b		+	+	-	3047127		98.4% Aeromonas hydrophila grp 1
45		+	+	-			Too light to identify
46		+	+	-			Too light to identify
55		+	+	-			Too light to identify
59		+	+	-			Too light to identify
60		+	+	-			Too light to identify

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-27 **COLLECTION DATE** July 21, 2006 **LOCATION** La Joya - Site #5

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
1a		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
1b		+	+	-	7207124		99.0% Aeromonas hydrophila grp 2
3		-	+	-	5005041		Unacceptable Profile
7a		+	+	-	3046127		67.0% Aeromonas hydrophila grp 1
7b		+	+	-	3047126		97.8% Aeromonas hydrophila grp 1
8a		+	+	-	7046123		98.4% Aeromonas hydrophila grp 1
8b		+	+	-	7046126		97.8% Aeromonas hydrophila grp 1
11		+	+	-	7047124		89.6% Aeromonas hydrophila grp 1
13		+	-	-	000300		64.5% Non-fermenter spp
14		-	+	+			Nontarget Pathogen
15		+	+	-	7247125		99.0% Aeromonas hydrophila grp 2
17		+	+	-	7047527		66.2% Aeromonas hydrophila grp 1
18a		-	+	-	1605572		95.0% Citrobacter freundii
18b		+	+	-	7247125		99.0% Aeromonas hydrophila grp 2
19a		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
19b		-	+	-	7144200		99.9% Plesiomonas shigelloides
20		-	+	-	7047121		89.8% Aeromonas hydrophila grp 2
21		+	+	-	6047124		83.6% Aeromonas hydrophila grp 2
23		+	+	-	7047127		85.9% Aeromonas hydrophila grp 1
24a		+	+	-	7247125		99.0% Aeromonas hydrophila grp 2
24b		too light	too light	+			Nontarget Pathogen
25		+	+	-	7247125		99.0% Aeromonas hydrophila grp 2
26		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
27a		+	+	-	7047124		89.6% Aeromonas hydrophila grp 2
27b		+	+	-	7047525		96.5% Aeromonas hydrophila grp 2
29		+	+	-	7047103		50.8% Aeromonas hydrophila grp 2
31		+	+	-	0001000		40.0% Flavimonas oryzihabitans
32a		-	-	-	0005042		99.0% Acinetobacter baumannii
32b		-	+	-	7047123		85.9% Aeromonas hydrophila grp 1
33a		-	+	-	0000000		Unidentified

COMMENTS: Plated 7/25/06

BACTERIOLOGY IDENTIFICATION

CHN: 06-27 **COLLECTION DATE** July 21, 2006 **LOCATION**

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
33b		+	+	-	3047127		98.4% Aeromonas hydrophila grp 1
34		+	-	+			Nontarget Pathogen
35a		-	+	-	0001000		40.0% Flavimonas orzyihabitans
35b		+	+	-	7047124		89.6% Aeromonas hydrophila grp 2
36a		+	+	+			Nontarget Pathogen
36b		+	+	-	3047123		98.4% Aeromonas hydrophila grp 1
37a		+	+	-	7047164		89.8% Aeromonas hydrophila grp 2
37b		+	+	-	7047164		89.8% Aeromonas hydrophila grp 2
40a		+	-	-	0001000		40.0% Flavimonas orzyihabitans
40b		-	+	-	0001000, 0021000		45.2% Ochrobactrum anthropi
41		+	+	-	7067127		85.9% Aeromonas hydrophila grp 1
43		too light	too light	-			Too light, couldn't ID
44		+	+	-			Could not recover
45a		+	+	-	7267124		98.8% Aeromonas hydrophila grp 2
45b		+	+	-	3066127		67.0% Aeromonas hydrophila grp 1

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-26 **COLLECTION DATE** July 21, 2006 **LOCATION** Site #6 San Antonio

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
2a		-	+	-	1001000		49.7% Pasterurella pneumotropica
2b		+	+	+			Gram positive bacteria
12a		+	+	-	7144204		99.9% Plesiomonas shigelloides
12b		+	+	-	7144204		99.9% Plesiomonas shigelloides
13a		+	+	-	7144204		99.9% Plesiomonas shigelloides
14a		-	+	-	1001000		49.7% Pasterurella pneumotropica
14b		+	+	+			Gram positive bacteria
15a		+	+	-	7144204		99.9% Plesiomonas shigelloides
17a		-	+	+			Gram positive bacteria
21a		+	+	+			Gram positive bacteria
21b		-	+	-	7046120		56.1% Aeromonas hydrophila grp 1
24a		-	+	-	7257120		Unacceptable Profile
26a		-	+	-	7147200		Unacceptable Profile
26b		-	+	-	7147200		Unacceptable Profile
28a		-	+	-	1004022		84.6% Pantoea spp 1
28b		-	+	-	1004020		59.6% Moellerella wisconsenis
29a		+	+	+			Gram positive bacteria
29b		+	+	-	3046123		67.0% Aeromonas hydrophila grp 1
32a		+	+	-	7144204		99.9% Plesiomonas shigelloides
32b		+	+	-	7144204		99.9% Plesiomonas shigelloides
33a		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
33b		+	+	-	7247124		98.8% Aeromonas hydrophila grp 2
34a		+	+	-	7047527		66.2% Aeromonas hydrophila grp 1
37a		+	+	+			Gram positive bacteria
37b		+	+	-	7144204		99.9% Plesiomonas shigelloides
38a		+	+	-	3046127		67.0% Aeromonas hydrophila grp 1
39a		+	+	-	7044066		Unacceptable Profile
40a		+	+	-	7144204		99.9% Plesiomonas shigelloides
40b		+	+	-	7144204		99.9% Plesiomonas shigelloides
41a		+	+	-	7144204		99.9% Plesiomonas shigelloides

COMMENTS:

BACTERIOLOGY IDENTIFICATION

CHN: 06-26 **COLLECTION DATE** July 21, 2006 **LOCATION** Site #6 - San Antonio

SAMPLE NUMBER	COLONY MORPHOLOGY	C/O	MOTILITY	GRAM +/-	API CODE	OTHER	IDENTIFICATION
41b		+	+	-	7144204		99.9% Plesiomonas shigelloides
41c		+	+	-	7144204		99.9% Plesiomonas shigelloides
42a		+	+	-	7144204		99.9% Plesiomonas shigelloides
42b		+	+	-	7047125		89.8% Aeromonas hydrophila grp 2
42c		+	+	-	3047123		98.4% Aeromonas hydrophila grp 1
43a		-	+	-	1000000		56.9% Pasterurella pneumotropica
43b		+	+	-	3046127		67.0% Aeromonas hydrophila grp 1
44a		+	+	+			Gram positive bacteria
44b		+	+	-	7144204		99.9% Plesiomonas shigelloides

COMMENTS:

Collaborative Research and Monitoring: Evaluation of the Rio Grande Silvery Minnow Health in Relation to Changes in Water Quality, Pathogens and Other Environmental Stressors:

Multi-locus Major Histocompatibility Complex Class IIβ and Parasite Diversity in the Rio Grande Silvery Minnow.



Prepared by:

Megan J. Osborne and Thomas F. Turner

Department of Biology and Museum of Southwestern Biology
MSC 03-2020, University of New Mexico
New Mexico, 87131, USA

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Executive Summary

Long-term persistence of species depends partially on avoiding loss of genetic variation (Hedrick *et al.* 1996). This variation forms the basis of a species' ability to adapt and respond to changing environments. For example, genetic variation of genes involved with immunity serves as the foundation of an individual's response to disease pressures. Variation at immune genes is especially important for aquatic species, whose chemical and microbial environment is impacted heavily by humans, which may increase their risk of exposure to pathogens (De Swart et al. 1996; Harvell et al. 1999). In this portion of the fish health study we characterized and measured diversity at genes of the major histocompatibility complex (MHC) Class IIβ in the Rio Grande silvery minnow, *Hybognathus amarus*. These data were used to examine the relationship between MHC variation and pathogen diversity. Major findings of this study were:

- Seventy-two different MHC alleles were identified based on MHC Class IIβ Exon two cDNA sequences and all alleles shared conserved features of classical MHC Class IIβ.

- Three divergent groups of alleles were identified on the basis of phylogenetic analysis.

- The expression of Hyam-DAB1*05 was associated with lighter *Costia* spp. infection whilst expression of Hyam-DAB2*06 was associated with heavier *Costia* spp. infection. Expression of Hyam-DAB1*13 was associated with heavier *Apiosoma* infection. No relationship was detected between presence or absence of Hyam-DAB1*03 or Hyam-DAB2*04 an infection with particular species.

- No association between gill parasite diversity (number of species per individual) or abundance and MHC diversity (number of MHC alleles per fish) was detected.

- No association was detected between pathogen diversity or abundance and the number of MHC allelic groups expressed by individuals.

- Parasite and bacterial species diversity and abundance also differed spatially.

Introduction

It is widely recognized that there is a relationship between levels of genetic diversity and a species' ability to respond to changing environmental conditions such as exposure to novel pathogens (e.g. Reed and Frankham 2003) and that there can be a negative relationship between the probability of extinction and the amount of genetic variation (Saccheri et al. 1998; Westemeier et al. 1998). In small populations, extinction risk may be heightened if individuals lack the diversity necessary to face infections from metazoan parasitic, bacterial and viral infections. In degraded environments, particularly aquatic ones, endangered species may be confined to areas (such as isolated pools) where they are more susceptible to infection. A case in point is the Rio Grande silvery minnow, a federally endangered North American cyprinid that now occupies a a fraction of its historic range in the Rio Grande, New Mexico. The Rio Grande is a modified and highly impacted river system. From spring to fall, river flows are largely diverted to supply agricultural lands and to meet interstate water delivery obligations. This can cause parts of the Rio Grande to be intermittent and, as a consequence, fish can become confined to pools. Under these conditions, fish are exposed to degraded water quality (e.g. increased temperatures and decreased dissolved oxygen) and increased competition and predation. High fish densities can increase the probability of exposure to pathogens and exacerbate susceptibility to infection due to stress. To date we have tracked overall measures of genetic diversity in Rio Grande silvery minnow including allelic richness, heterozygosity and genetic effective size (Alò & Turner 2005; Turner et al. 2006; Turner & Osborne 2006). The markers used to track these parameters are presumably neutral (i.e. not under selection). Although these neutral markers provide crucial information about demography, genetic effective size, and stocking practices, they do not allow us to make specific predictions about whether the species maintains the genetic diversity needed to respond to disease pressures. This study aims to address these concerns by examining genes of the major histocompatibility complex (MHC), a critical component of the adaptive immune response in vertebrates (e.g. Klein 1986).

Major histocompatibility complex genes encode receptor molecules that recognize and bind foreign peptides, which are then presented to immune cells, initiating an immune response. MHC comprises two subgroups that are involved with immune function: i) Class I molecules that are expressed on the surface of nucleated cells and

are responsible for defense against intracellular pathogens including viruses; and ii) Class II molecules that occur on antigen-presenting cells and are involved with defense against extra-cellular pathogens such as bacteria, arthropods and helminths. Nucleotide sequence variation within the peptide binding region of MHC is directly related to the individual's ability to mount an immune response to specific suites of pathogens (e.g. Davenport & Hill 1996; Hill 2001). Hence, MHC is highly polymorphic, containing the most variable genes described in vertebrates. This variation may also be a product of the role that MHC appears to play in mate choice in some species (e.g. Landry & Bernatchez 2001; Milinski. 2006; Penn & Potts 1999). One of the most important distinctions between the MHC genes in bony fish and other vertebrates, is that the two classes of MHC genes are found on separate chromosomes in bony fish (Bingulac-Popvic et al. 1997; Sato et al. 2000).

Diversity at MHC is thought to be maintained by over-dominant or frequency-dependent selection (forms of balancing selection). Over-dominant selection describes the case whereby the heterozygous condition at a locus is advantageous. In the case of MHC, having multiple alleles at a locus may allow an immune response to be mounted against different suites of pathogens. Frequency-dependent selection is a dynamic process whereby the relative fitness of an allele varies depending upon its frequency within the population. Variation can also be maintained by diversifying selection, whereby genotypes that depart from the average condition in either direction are favored. In some fish, like brown trout, particular MHC alleles may confer resistance to particular pathogens (e.g. Langefors et al. 2001; Paterson et al. 1998). There are also cases where an MHC allele causes susceptibility to a disease (reviewed in Apanius et al. 1997). In other fish, overall heterozygosity at MHC is related to survivorship from infection (Hedrick et al. 2001a; Arkush et al. 2002, Wegner et al. 2003). There is also evidence that parasites drive MHC variability; however, evidence also suggests that there is an optimal number of MHC alleles within individuals (e.g. Wegner et al. 2003).

MHC sequences have been characterized to varying degrees in bony fishes. These include various trout and salmon, pufferfish, sticklebacks, cichlids and several representatives of the fish family Cyprinidae including common carp (*Cyprinus carpio*) (Ono *et al.* 1993; van Erp *et al.* 1996), zebrafish (*Danio rerio*) (Ono *et al.* 1992, Sültmann *et al.* 1993; Sültmann *et al.* 1994) and barbs (*Barbus intermedius* complex) (Dixon *et al.*

1996; Kruiswijk *et al.* 2004). More recently, complementary DNA[1] (cDNA) sequences have been obtained from additional cyprinids including several representatives of the subfamilies Cypininae, Gobioninae, Tincinae and Leucisinae (Ottova *et al.* 2005). These studies have provided crucial insight into the organization of the MHC regions in the Cyprinidae, the largest family of freshwater fishes in the world (~2400 species). A major finding of these studies was the identification of two groups of divergent alleles (DAB1 and DAB3) but it is not clear how many loci these represent.

Although there are around 270 endemic North America cyprinids, there have been no descriptions or published studies of their MHC genes. Despite the large number of species worldwide, fewer than five population-level studies have been published that considered MHC genes within this group of fishes. Population studies have been conducted in the Lake Tana African 'large' barb (*Barbus intermedius*) species flock (Kruiswijk et al. 2005) and in carp bream (*Abramis brama*) (Ottova et al. 2007). The latter study is the first (to our knowledge) that simultaneously considered the correlation between diversity at two transcribed MHC allelic groups and parasite load, parasite diversity, immuno-competence, condition factor and sexual ornamentation. Major finding of their study included: i) identification of two different allelic groups (DAB1 and DAB3) that were under different selective regimes; ii) transcription by individuals of alleles from one, or both allelic groups; iii) a high level of diversity at MHC (in 20 individuals examined 32 transcribed MHC alleles were identified); iv) no association between presence of parasite species and particular alleles; v) correlation between transcription of two DAB1 alleles with increased parasite abundance and vi) individual nucleotide diversity at either DAB1 or DAB3 increased with abundance of two parasite species.

This study aimed to characterize and measure diversity at MHC Class IIβ in the Rio Grande silvery minnow, *Hybognathus amarus*, and to examine the relationship between this variation and pathogen diversity. Three specific questions were addressed:

i) Is there an association between specific MHC alleles and prevalence and intensity of infection by pathogens?

ii) Does increased diversity at MHC confer protection from disease outbreaks?

[1] *Complementary DNA is DNA synthesized from messenger RNA in a reaction facilitated by the enzyme reverse transcriptase. cDNA sequences include exons (sequences that code for functional genes) but not introns (sequences between genes) or non-functional genes.*

iii) Is individual MHC diversity correlated with parasite species or abundance?

Methods

Sample Collection

Genetic analysis was conducted on samples collected during July fish health monitoring July 18th-July 27th 2006 and July 8th – 15th 2008. Fish were euthanized with an overdose of MS-222 (tricaine methanesulphonate). A small piece of caudal fin was removed after each fish was examined for parasites. Fin clips were preserved in 95% ethanol. Whole fish sampled for parasites were frozen and deposited at the Museum of Southwestern Biology Division of Fishes. Genomic DNA was isolated from 30 individuals per locality for genetic analysis. In addition, gill tissue was collected from the first 20 individuals examined for parasitic infections from each collection locality in 2006. In 2008 gill tissue was taken from 30 individuals. Gill tissue was preserved in RNA*later*® (Ambion) for characterization and analysis of cDNA and stored at -20°C to -80°C. Total nucleic acids, including genomic DNA and mitochondrial DNA (mtDNA) were extracted from air-dried fin clips using proteinase-K digestion and organic extraction methods (Hillis *et al.* 1996).

Microsatellites

Individuals were genotyped at seven polymorphic microsatellite loci: *Lco1*, *Lco3*, *Lco8* (Turner *et al.* 2004), *Ca6* and *Ca8* (Dimsoski *et al.* 2000), and *Ppro118* and *Ppro126* (Bessert & Orti 2003). The following pairs of loci were amplified using multiplex PCR: *Lco1*/ *Ca6*, *Lco3* and *Lco8* (1X PCR buffer, 2 mM MgCl2, 125µM dNTPs, 0.40-0.50 µM each primer, 0.375 units TAQ) and *Ppro118*/*Ppro126* (1X PCR buffer, 3 mM MgCl2, 125µM dNTPs, 0.40-0.50 µM each primer, 0.375 units TAQ). *Ca8* was amplified alone (1X PCR buffer, 3 mM MgCl2, 125 µM dNTPs, 0.50 µM each primer, 0.375 units TAQ polymerase). PCR cycling conditions for all loci were: one denaturation cycle of 94°C for 2 mins followed by 30 cycles of 94°C for 20s, 50°C for 20s, 72°C for 30s. For *Ppro 118*/*Ppro126* cycling conditions were one denaturation cycle of 94°C for 2 mins followed by 30 cycles of 94 °C for 20s, 60°C for 20s, 72°C for 30s. Primer concentrations in multiplex reactions were varied to facilitate equal amplification of both loci. Prior to electrophoresis 1.2µl of PCR product was mixed with 1.2µl of a solution comprised of formamide (62.5%), ABI ROX350 size standard (12.5%) and loading buffer (25%) and

Table 1. MHC Class IIβ PCR primer sequences and approximate locations.

Name	Primer Sequence (5' to 3')	Location
MHC_CYF	CAT ACT GAT GCT GTC TGC TTT	Leader peptide
FISH12S[a]	GTG GGG RRG TWT GTD GGR TAC ACT	Exon 2
EX2F	CAA ATG GAT ATT TCT ATT CTC GGT	5' Exon 2
EX2F_L4	GCT GAT GGA TAT TAT CTA GAC ATA A	5' Exon 2
Ex3R	TCA CTG AAC TGA GCT TAA CCT	5' Exon 3
LC1R	TGG TGT GGG GTA GAA GCG GT	Exon 3
LC2R	CTC TTT GGG TAG AAG TCG	Exon 3
LC4R	TCT TTC AGG GTA GAA GTC A	Exon 3
MHC2-3F	AAG GTT AAG CTC AGT TCA GT	5' exon 3
MHC2-4R	ATG GCG ATT TTA TTC CTC TC	5' exon 4

[a] Ottova et al. 2005.

denatured at 93°C for 2 minutes. Samples were run on an ABI 377 automated DNA sequencer at 50°C for 2.5 hours. *Ppro 118*/*Ppro126* and *Ca8* PCR products were run on an ABI 3100 automated capillary sequencer. One microliter of PCR product was mixed with 10µl of formamide and 0.3µl of HD400 size standard and denatured at 93°C for 5 minutes prior to loading. Genotype data was obtained using Genemapper Version 4.0 and Genescan 3.1 (Applied Biosystems).

Mitochondrial DNA- ND4

Individuals were screened for variation in a 295 base pair fragment of the mitochondrial ND4 gene using single stranded conformational polymorphism (SSCP) analysis and DNA sequencing as described in Alò and Turner (2005).

MHC- RNA Isolation and cDNA Synthesis

RNA isolations were conducted using Trizol Reagent (Invitrogen). Gill tissues were placed in 1.5 ml eppendorf tubes with 1 ml of Trizol and pulverized using a plastic pestle. Isolations were completed according to the manufacture's instructions. cDNA (complementary DNA) was synthesized from RNA using Qiagen Omniscript® or Sensiscript® Reverse Transcription kits following the manufacturer's instructions.

Primer Design

Primers that amplified MHC Class IIβ exon 3 were designed by comparing published sequences of the zebrafish and common carp (van Erp *et al.* 1996). The light strand primer (MHC2-3) was located at the beginning of exon 3 and the heavy strand primer (MHC2-4) (Table 1) was located at the beginning of exon 4. These primers amplify a fragment that encompasses exon 3, intron 3 and partial exon 4 (data not presented). Using the sequences obtained with these primers, locus specific primers were designed to amplify partial exon 3 and partial exon 2 when used in combination with previously published FishC12S (Ottova *et al.* 2005). To obtain sequences from the five prime end of Rio Grande silvery minnow exon two, a primer was designed in the leader peptide by comparing zebrafish and common carp (van Erp *et al.* 1996) sequences (*Ex2F*). Used in combination with *MHC2-4*, sequences were obtained for entire exon 2 allowing the design of primers that amplified this exon. A 3' primer was also designed based on Rio Grande silvery minnow sequences that would amplify exon 2 regardless of which allelic group was present in the individual.

Allele screening

Individual cDNA samples were screened for the presence of each allelic group using group specific primer combinations. DAB1 alleles were amplified (1X Genescript Taq polymerase buffer, 3mM $MgCl_2$, 125µM dNTPs, 0.35µM each primer [*MHC Ex2F* and *Lc1R*], 0.375 units Taq polymerase) under the following PCR cycling parameters: one denaturation cycle of 92°C for 2 mins followed by 30 cycles of 90 °C for 20s, 53°C for 20s, 72°C for 20s and a final extension step of 72°C for 10 minutes. DAB1(2) alleles (see results) were amplified (1X Genescript Taq polymerase buffer, 3mM $MgCl_2$, 125µM dNTPs, 0.35µM each primer [*MHC Ex2F* and *Lc2R*], 0.375 units Taq polymerase) under the following PCR cycling parameters: one denaturation cycle of 92°C for 2 mins followed by 30 cycles of 90 °C for 20s, 56°C for 20s, 72°C for 20s and a final extension step of 72°C for 10 minutes. DAB3 alleles were amplified (1X Genescript Taq polymerase buffer, 3mM $MgCl_2$, 125µM dNTPs, 0.35µM each primer [M*HC Lc4F* and *Lc4R*] 0.375 units Taq polymerase) under the following PCR cycling parameters: one denaturation cycle of 92°C for 2 mins followed by 30 cycles of 90 °C for 20s, 58°C for 20s, 72°C for 20s and a final extension step of 72°C for 10 minutes. For individuals that failed to amplify using the primer combination given above, *MHC Ex2F* or *MHC Lc4F* was used in conjunction with MHC-Ex3R (1X Genescript Taq polymerase buffer, 3mM $MgCl_2$, 125µM dNTPs, 0.35µM each primer, 0.375 units Taq polymerase). Screening reactions were conducted in 10µL volumes.

Single Stranded Conformational Analysis

Samples that were positive for each of the allelic groups were then amplified in 15µL volumes (using the above conditions). Five microliters were used to check for successful PCR amplification and 10µL of sequencing stop solution (95% formamide, 20 mM EDTA, 0.05% bromphenol blue, 0.05% xylene cyanol FF) was added to the remaining 10µL of PCR product. Samples were denatured at 93°C for 5 minutes and immediately quenched on ice. Fifteen microliters of each sample were loaded on a non-denaturing polyacrylamide minigel (5% acrylamide for allelic groups DAB1(2) and DAB3 and 6% for DAB1) (with 50% glycerol). Samples of known haplotype were included to assist in haplotype designation for unknown samples. Electrophoresis was carried out on a BioRad minigel system (Protean® II xi Cell) in 1X TBE at approximately 4°C for 4 hours

for DAB1(2) and 4.5 hours for groups DAB1 and DAB3. Gels were stained in ethidium bromide and visualized on a UV transilluminator.

Gel plugs were removed from the gel using a razorblade from each variant on the gel. Gel plugs were resuspended in 30µl of deionized water and 30µl of TE and incubated at 37°C shaking for 2-3 hours. Samples were then centrifuged for 20 minutes at 30,000 RPM and the supernatant removed and placed in a new 1.7 ml centrifuge tube. 500 µL of 100% ethanol was added and the tube then placed at -80°C for 15 minutes to precipitate the DNA. Samples were centrifuged for 20 mins at 30,000 RPM to pellet the DNA. The pellet was dried at room temperature and then resuspended in 50µL of TLE. One microliter of this was used in PCR reactions using conditions listed above. PCR products were purified using Marligen PCR cleanup kit and sequenced using ABI Big Dye Terminator kit V. 1.1. Sequencing was conducted on an ABI Prism 3130 capillary sequencer (Applied Biosystems). Sequences were visualized and checked using Sequencher Version 4.6 (Gene Codes Corp).

Cloning

For individuals that appeared to be heterozygotes (and for a portion of homozygotes) PCR products were cloned using the Promega pGEM-T Easy Vector kit following the manufacturer's directions. Plasmid DNA was purified using a boil preparation method (Sambrook *et al.* 1989). Between four and eight clones were sequenced per individual. MHC sequences were aligned manually using Se-Al Version 2.0a11 (available at http://evolve.zoo.ox.ac.uk/software.html?id=seal). Sequences were designated as different alleles if they were encountered more than once and in multiple clones. Sequences differing by one or two base pairs from previously designated haplotypes were not designated as new alleles unless they were encountered multiple times, as they were presumed to be an artifact of PCR. Nomenclature of alleles followed Klein *et al.* (1990). The reason for this conservative approach to allele designations is that MHC sequences are prone to formation of artifactual, mosaic sequences during the cloning procedure (Borriello & Krauter 1990; L' Abbe *et al*. 1992).

Statistical Analysis- Microsatellites

Microsatellite data was checked for errors using MICROSATELLITE TOOLKIT (add-in for Microsoft Excel written by S. Park, available at http://animalgenomics.ucd.ie/sdepark/ms-toolkit/). Nei's unbiased genetic diversity (Nei

1987), observed heterozygosity and allele frequencies were obtained using this program. The computer program Microchecker (van Oosterhout *et al.* 2004) was used to examine the data for scoring errors due to stuttering, presence of large allele dropout and null alleles. For each microsatellite locus and population, allelic richness (A_R), total number of alleles (N_a) and inbreeding co-efficients (F_{IS}) were obtained using FSTAT version 2.9.3.1 (Goudet 1995). Allelic richness was calculated using the methods described Petit *et al.* (1998). This method allows the number of alleles to be compared among populations independently of sample size (Leberg 2002) and is based on the smallest number of individuals typed for any locus. The computer package ARLEQUIN (Schneider *et al.* 2000) was used to assess whether there were significant departures from Hardy-Weinberg equilibrium using the procedure of Guo and Thompson (1992). Global tests for linkage disequilibrium (non-random association of loci) were conducted for all pairs of loci using FSTAT. Bonferroni (Rice 1989) correction was applied to account for multiple simultaneous tests. Weir and Cockerham's (1984) *F*-statistics were calculated using ARLEQUIN (Schneider *et al.* 2000) to determine the magnitude of differences between samples collected at different localities. F_{ST} is the standardized variance in allele frequencies between populations and is the most commonly used measure of genetic distance between populations. P-values for all statistics were generated using a bootstrapping method (10,000 permutations).

Mt-DNA- ND4

Estimates of unbiased gene diversity (h) and nucleotide diversity (π) were obtained using ARLEQUIN Version 3.0 for mitochondrial DNA data. Allelic richness was calculated using FSTAT. ϕ-statistics were calculated from mt-DNA data using ARLEQUIN (Excoffier *et al.* 1992). ϕ-statistics are equivalent to F-statistics (Weir & Cockerham 1984), however they incorporate allele frequencies and evolutionary distances between haplotypes.

Phylogenetic Analysis- MHC

MHC sequences were aligned manually using Se-Al Version 2.0a11 (available at http://evolve.zoo.ox.ac.uk/software.html?id=seal). The computer program TCS (Clement *et al.* 2000) was used to construct a statistical parsimony network among MHC alleles using the method of Templeton *et al.* (1992). We aligned Rio Grande silvery minnow MHC sequences to published MHC sequences from representatives of the cyprinids

including common carp, Lake Tama African 'large' barb, carp bream and zebrafish. Phylogenetic trees were reconstructed using Bayesian analysis as implemented in MrBayes (Huelsebeck and Ronquist 2001). For Bayesian analysis the General Time Reversible Model + I + Γ was used and model parameter were treated as unknown variables with uniform priors and were estimated during the analysis. Random starting trees were used and two simultaneous analyses were run for 1 x 10^7 generations sampling every 100^{th} generation from the chain. Four chains (three hot and one cold) were run simultaneously. The first 25% of trees were discarded as burn-in samples and the remaining trees were used to construct a majority rule consensus tree. Bayesian posterior probabilities were obtained for the remaining tree. Posterior probabilities above 95% are considered strong support for a clade (Wilcox *et al.* 2002).

MHC- *Tests of Selection*

To determine whether there was evidence of selection and the type of selection (positive [beneficial mutations increase in frequency in the population], purifying [deleterious alleles decrease in frequency in the population], or neutral [i.e., no evidence of selection]) sequences were examined at the amino acid level. If MHC sequences are evolving neutrally, the ratio of non-synonymous (causes an amino acid substitution) (d_N) to synonymous (does not result in an amino acid substitution) (d_S) will not differ significantly from one. If there is positive selection, d_N with be greater than d_S, whilst for purifying selection, d_N will be less than d_S. We conducted Z-test of selection as implemented in MEGA v. 3.1. Ratios of d_S to d_N were estimated for sites presumed to be involved in peptide binding and for non-peptide binding sites. Designation of peptide binding sites were based on comparisons to human HLA three dimensional structure (Brown *et al.* 1993) following Dixon *et al.* (1996) and Ottova *et al.* (2005; 2007) because peptide binding sites have not been determined specifically for fish, including cyprinid fishes. Ratios of d_S to d_N were estimated across all MHC alleles identified and within each of the major allelic groups.

Association between MHC and parasite diversity

Scatter plots were generated to examine the relationship between sampling locality and genetic and parasite diversity measures including allelic richness (Mt-DNA and microsatellites), total number of MHC alleles, average number of parasite species and average level of infection of individuals. Non-parametric Spearman's rank correlation was used to test for associations

between MHC diversity (measured by total number of alleles observed irrespective of loci), total number of allelic groups represented (an allelic group was defined as a distinct lineage as determined by phylogenetic analysis) and parasites (measured by number of species observed per individual) using the computer package SPSS. For comparisons between the genetic data and parasites only gill parasite data was used. Allelic groups were DAB1, DAB1(2) and DAB3. The designation of these groups was based on the results of phylogenetic analysis. Intensity of infection was obtained per fish by categorizing abundance estimates: 0 (uninfected), 1 (less than 10 individuals of a parasite species), 2 (less than 50 individuals of a parasite species), 3 (more than 50 individuals of a parasite species). To obtain an overall estimate of the level of infection across all parasite species per individual, category values were summed (hence level of infection could range from 0 to 15 given a total of five parasite species).

Results

Microsatellite Diversity

All measures of genetic diversity calculated from microsatellite DNA data were similar between samples collected at each locality in 2006 (the only exception was WJR06-464 where fewer individuals were collected). In 2006 allelic richness was the greatest in the sample WJR06-462 (A_R = 9.363) while observed heterozygosity was highest in the sample SRD06-45 (H_O = 0.738) (Table 2). In 2008, all measures of genetic diversity were similar between localities. Allelic richness was slightly lower in the sample WJR08-814 (A_R = 9.586). In 2008 observed heterozygosity ranged from 0.659 to 0.720 (Table 2). In 2006 there were 10 departures from Hardy-Weinberg equilibrium whilst there were 13 deviations in 2008 from 42 comparisons. All of these were explained by deficiencies of heterozygotes. There was no evidence of linkage disequilibrium between pairs of microsatellite loci.

Pairwise F_{ST} was calculated between samples collected at six different localities on the Rio Grande (Table 3a). In 2006, F_{ST} values were very small and not significantly different from zero (at nominal α = 0.05). In 2008, there were six significant comparisons from 21 comparisons after Bonferroni correction was applied.

MtDNA Diversity-

In 2006 sequence data for partial mitochondrial DNA ND4 gene (295 base pairs) was obtained for 163 individuals allowing eight haplotypes to be identified. In 2008 sequence

Table 2. Summary statistics by collection locality for 2006 and 2008. Sample size (*N*), number of alleles (N_a), allelic richness (A_R) expected heterozygosity (H_E), observed heterozygosity (H_O), and average weighted inbreeding co-efficient (F_{IS}), gene diversity (*h*) and nucleotide diversity (π) are given. For MHC sample size (*N*), number of alleles (N_a) are given for DAB1-DAB1(2) and for DAB3.

		ND4					DAB1		DAB3	Microsatellites					
Field Number	**Locality**	**N**	**Na**	**A_R**	***h***	***π***	**N**	**Na**	**Na**	**N**	**Na**	**A_R**	***H_O***	***H_e***	***F_{IS}***
WJR06-468	**Bernalillo**	30	6	5.397	0.646	0.004	21	22	2	30	14.29	9.214	0.722	0.86	0.164
WJR08-818		30	4	3.459	0.313	0.003	26	17	5	30	14	10.36	0.72	0.849	0.155
WJR06-466	**Alameda**	30	6	5.547	0.687	0.006	19	19	2	30	14.57	8.824	0.698	0.846	0.178
WJR08-817		29	5	4.046	0.466	0.003	25	21	2	30	14.78	10.72	0.684	0.867	0.214
WJR06-464	**Los Padillas**	13	3	3.000	0.295	0.002	13	11	2	13	9.57	8.22	0.739	0.847	0.133
WJR08-816		14	4	4.000	0.703	0.005	12	18	3	17	11.11	10.21	0.659	0.864	0.243
WJR06-462	**Los Lunas**	30	5	4.042	0.041	0.003	20	19	2	30	14.71	9.363	0.708	0.884	0.205
WJR08-815		29	6	5.146	0.584	0.002	25	20	3	30	13.67	10.23	0.697	0.844	0.177
WJR06-461	**La Joya**	30	5	4.466	0.457	0.003	18	10	3	30	15.57	9.35	0.742	0.857	0.136
WJR08-814		29	5	4.344	0.372	0.003	28	23	4	30	13	9.586	0.682	0.842	0.194
SRD06-045	**San Antonio**	30	7	6.276	0.632	0.004	20	17	0	30	14	8.796	0.738	0.863	0.147
WJR08-813		29	4	3.474	0.446	0.003	25	16	4	30	13.67	10.06	0.712	0.84	0.155

Table 3. Pairwise values of F_{ST} (below diagonal) and associated P-values (above diagonal) calculated for microsatellite DNA data (a) for 2006 and for (b) 2008 and ϕ_{ST} for mtDNA-ND4 (c) for 2006 and for (d) 2008.

(a)

usats-F_{ST}	SRD06-045	WJR06-461	WJR06-462	WJR06-464	WJR06-466	WJR06-468
SRD06-045	-	0.6611	0.5303	0.4697	0.9854	0.6074
WJR06-461	-0.0030	-	0.5703	0.8975	0.6406	0.4189
WJR06-462	-0.0011	-0.0018	-	0.7940	0.1846	0.1006
WJR06-464	0.0006	-0.0098	-0.0082	-	0.1836	0.2920
WJR06-466	-0.0092	-0.0025	0.0047	0.0072	-	0.5576
WJR06-468	-0.0014	0.0012	0.0079	0.0058	-0.0011	-

(b)

usats-ϕ_{ST}	WJR08-818	WJR08-817	WJR08-816	WJR08-815	WJR08-814	WJR08-813
WJR08-818	*	0.00195	0.00488	0	0.0498	0
WJR08-817	0.01586	*	0.8877	0.00977	0.00293	0.09668
WJR08-816	-0.00007	0.01997	*	0.0332	0.66895	0.05566
WJR08-815	0.01235	0.00155	0.01418	*	0	0.79492
WJR08-814	0.00756	0.01431	0.01153	-0.00053	*	0.00293
WJR08-813	0.02509	0.00948	0.03562	0.01919	0.01537	*

(c)

ND4-F_{ST}	SRD06-045	WJR06-461	WJR06-462	WJR06-464	WJR06-466	WJR06-468
SRD06-045	-	0.4844	0.2588	0.1953	0.3955	0.9902
WJR06-461	-0.0094	-	0.9990	0.6016	0.0752	0.4346
WJR06-462	0.0071	-0.0290	-	0.6172	0.0264	0.2754
WJR06-464	0.0156	-0.0189	-0.0190	-	0.0850	0.1962
WJR06-466	-0.0044	0.0471	0.0788	0.0746	-	0.3350
WJR06-468	-0.0286	-0.0070	0.0048	0.0255	0.0022	-

(d)

ND4-ϕ_{ST}	WJR08-818	WJR08-817	WJR08-816	WJR08-815	WJR08-814	WJR08-813
WJR08-818	0	0.26562	0.39355	0.18945	0.75879	0.16602
WJR08-817	0.00216	0	0.11426	0.28125	0.7041	0.89062
WJR08-816	-0.00438	0.05241	0	0.1748	0.19336	0.03418
WJR08-815	0.01662	0.01317	0.02538	0	0.39453	0.08594
WJR08-814	-0.02424	-0.0177	0.01836	0.00158	0	0.45508
WJR08-813	0.0329	-0.02454	0.09087	0.04396	-0.0024	0

data was obtained for 158 individuals revealing eight haplotypes. In all populations, haplotype A was the most prevalent. In 2006, three to seven haplotypes were identified per locality and in 2008 four to six haplotypes were seen at each locality.

In both 2006 and 2008 one significant value of Φ_{ST} was identified between WJR06-462 and WJR06-466 (F_{ST} = 0.079, P = 0.0264) and between WJR08-813 and WJR08-816 (F_{ST} = 0.0908, P = 0.0371) (Table 3b). After Bonferroni correction (Rice 1989) for multiple comparisons neither of these remained significant.

MHC Diversity- Overview

Two-hundred and seventy-four base pairs of sequence data encompassing 91 codons of the exon two region of MHC Class II beta region (the full length of exon 2 is 95 codons). Conserved cysteine residues (which are involved in the formation of di-sulfide bridges) and N-linked glycosylation sites were identified based on comparison to other published cyprinid sequences. These conserved sites could be identified in all of the MHC alleles observed in Rio Grande silvery minnow. Seventy-two unique haplotypes were identified among the 252 individuals. Most haplotypes were rare with only ten and eleven haplotypes present in more than 5% of individuals in 2008 and 2006 respectively (Figures 1a and 1b). In 2008, allele Hyam-DAB3*06 was present in more than 10% of individuals; an increase in the frequency in 2006. Eighteen alleles were identified that had a single codon deletion at position 72 (numbering based on Ottova *et al.* 2005). These alleles all belonged to the DAB1(2) group (see section below on phylogenetic analysis). A single haplotype belonging to the DAB1 group had a deletion at this position.

Phylogenetic Analysis

Bayesian analyses revealed two highly divergent clusters of MHC alleles. One of these was similar to DAB1 group of alleles identified previously in *Danio rerio*, *Cyprinus carpio*, *Barbus intermedius* (Ono *et al.* 1993). The other group was more similar to the DAB3 alleles (van Erp *et al.* 1993) previously described in other members of the family Cyprinidae than to DAB1 alleles identified in Rio Grande silvery minnow (Figure 2). The DAB3 group of alleles identified in Rio Grande silvery minnow formed monophyletic groups with *D. rerio*, *C. carpio*, *B. intermedius* DAB3-DAB4 alleles (100% posterior probability). Relationships among the Hyam-DAB3 alleles were poorly resolved. In addition to the DAB3 group of alleles, two other allelic groups were identified in Rio Grande silvery minnow that each had high to moderate support. The most basal

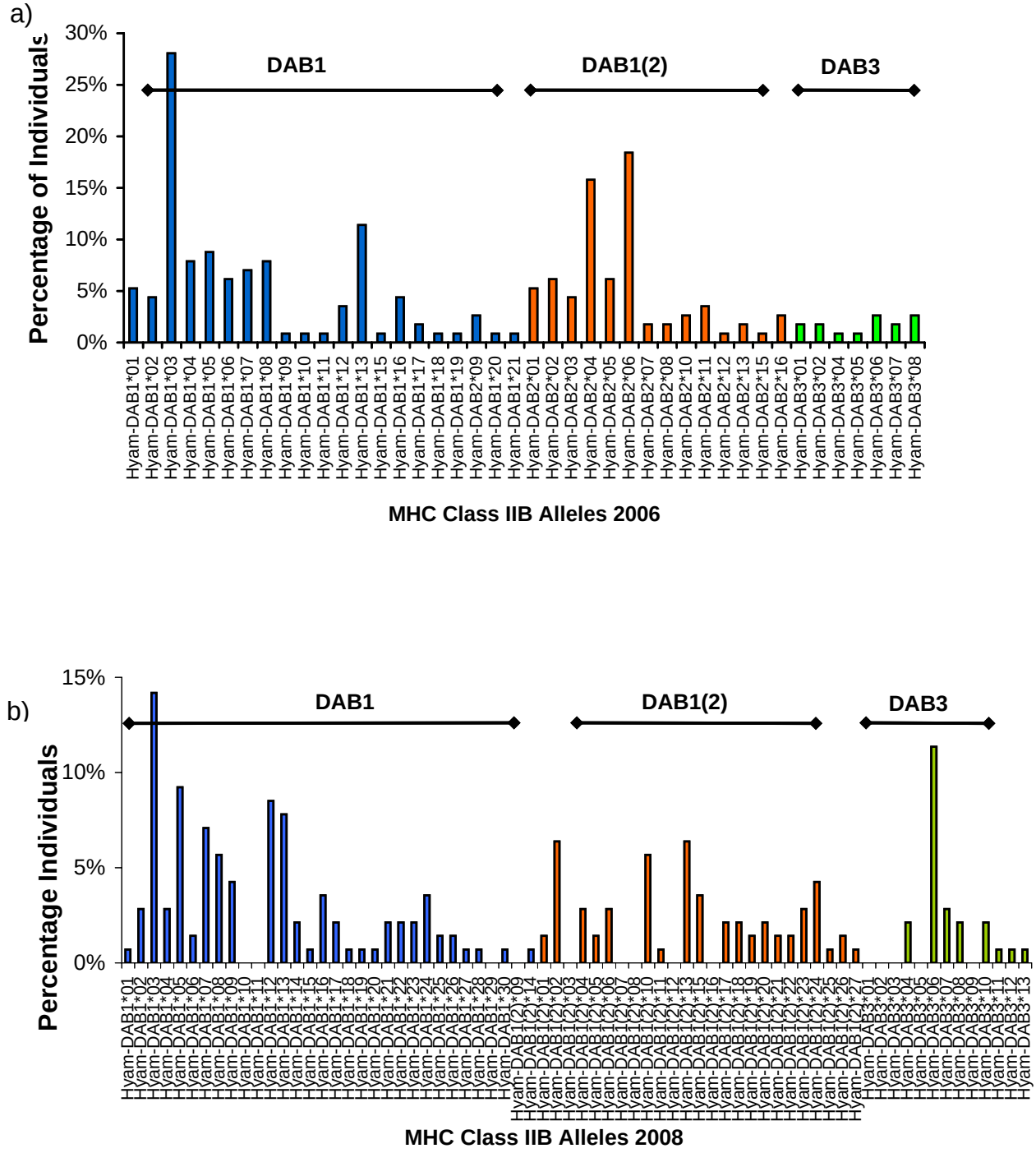


Figure 1. Percentage of individuals identified with each MHC Class IIB allele. Allelic groups (DAB1, DAB1(2) and DAB3) to which alleles belong are given above.

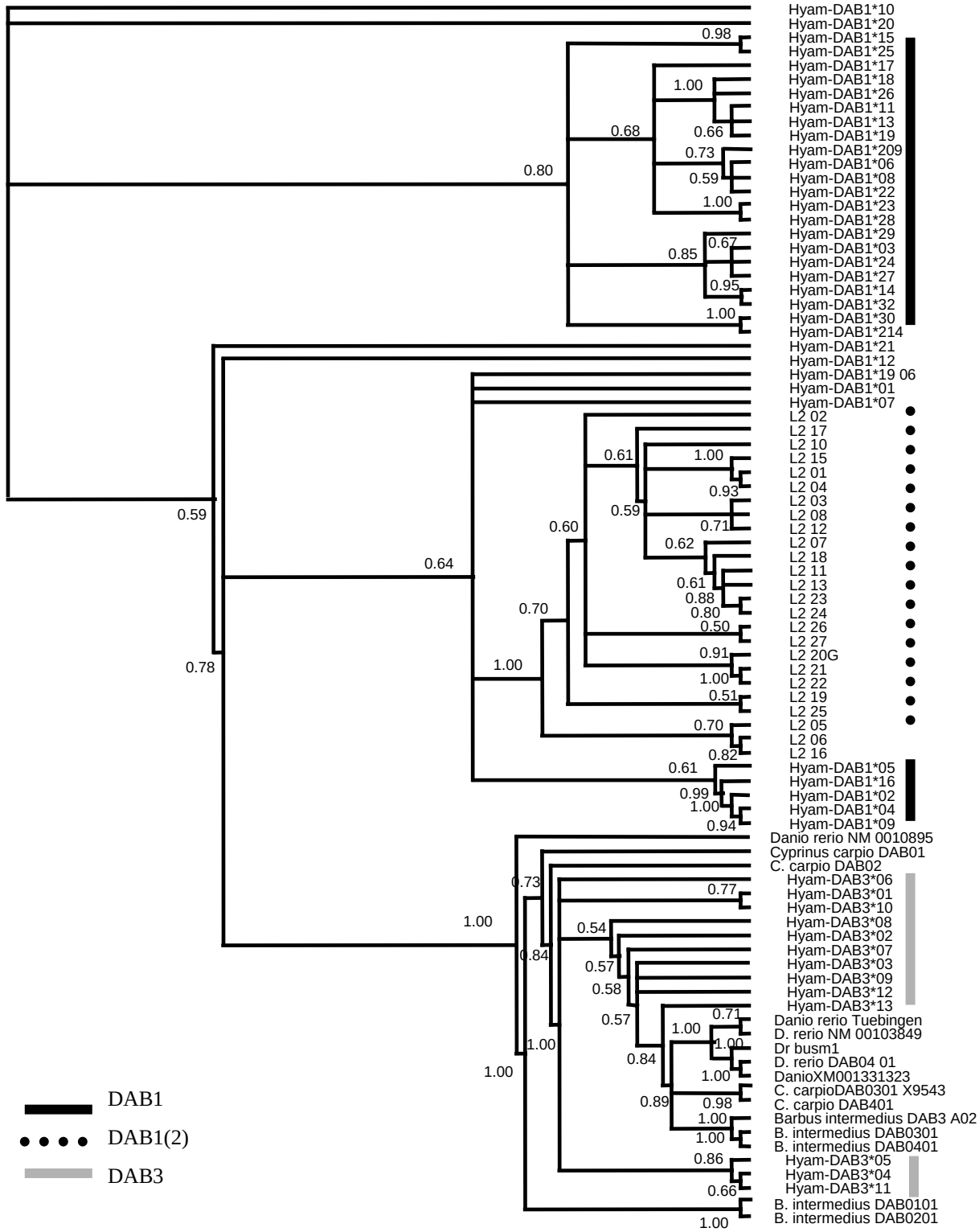
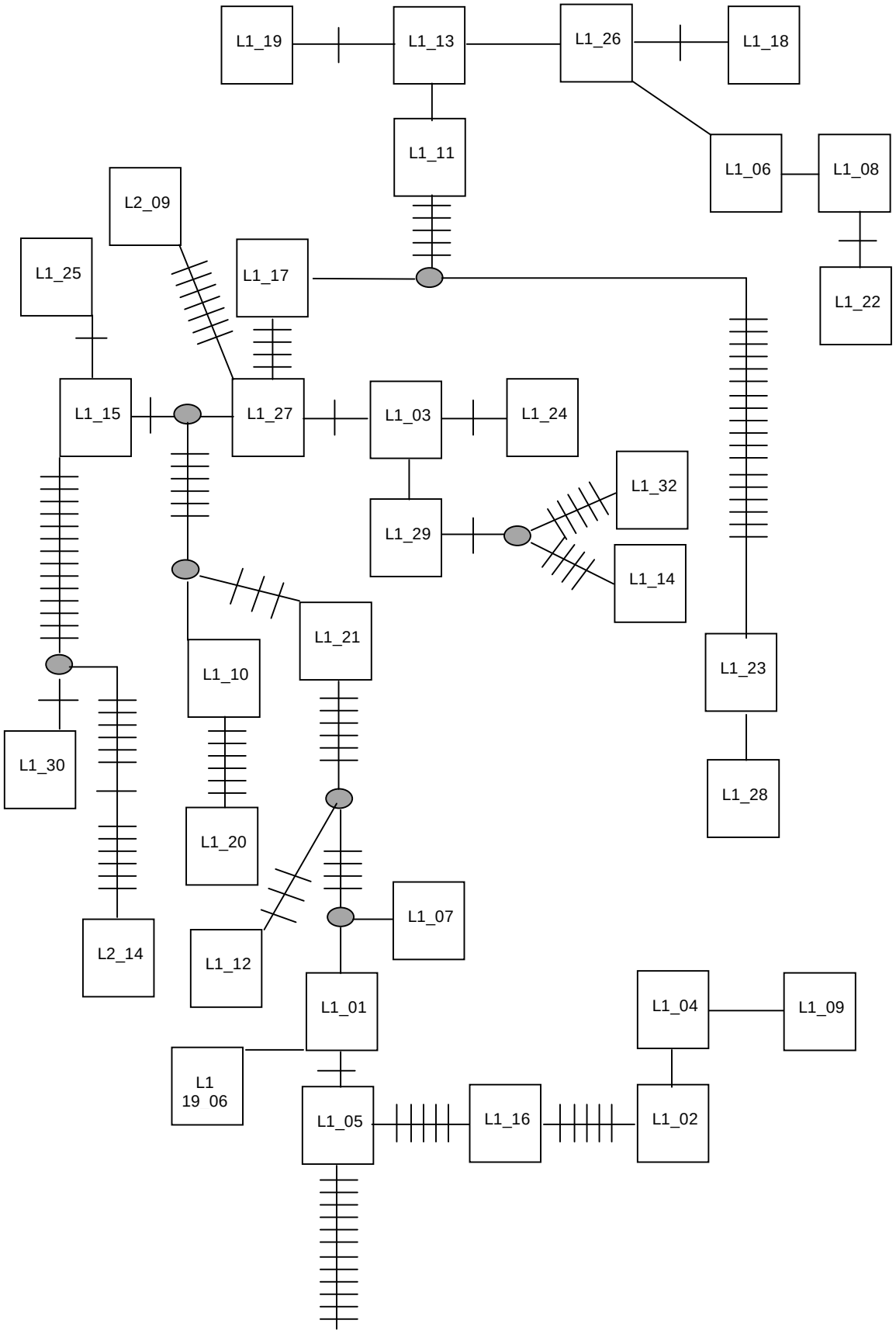


Figure 2. Bayesian phylogenetic tree of MHC Exon 2 Rio Grande silvery minnow alleles. Values by the branches are posterior probabilities.


L1_19
L1_13
L1_26
L1_18
L1_11
L1_06
L1_08
L2_09
L1_25
L1_17
L1_22
L1_15
L1_27
L1_03
L1_24
L1_32
L1_29
L1_14
L1_21
L1_10
L1_23
L1_30
L1_28
L1_20
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L1
19 06
L1_05
L1_16
L1_02

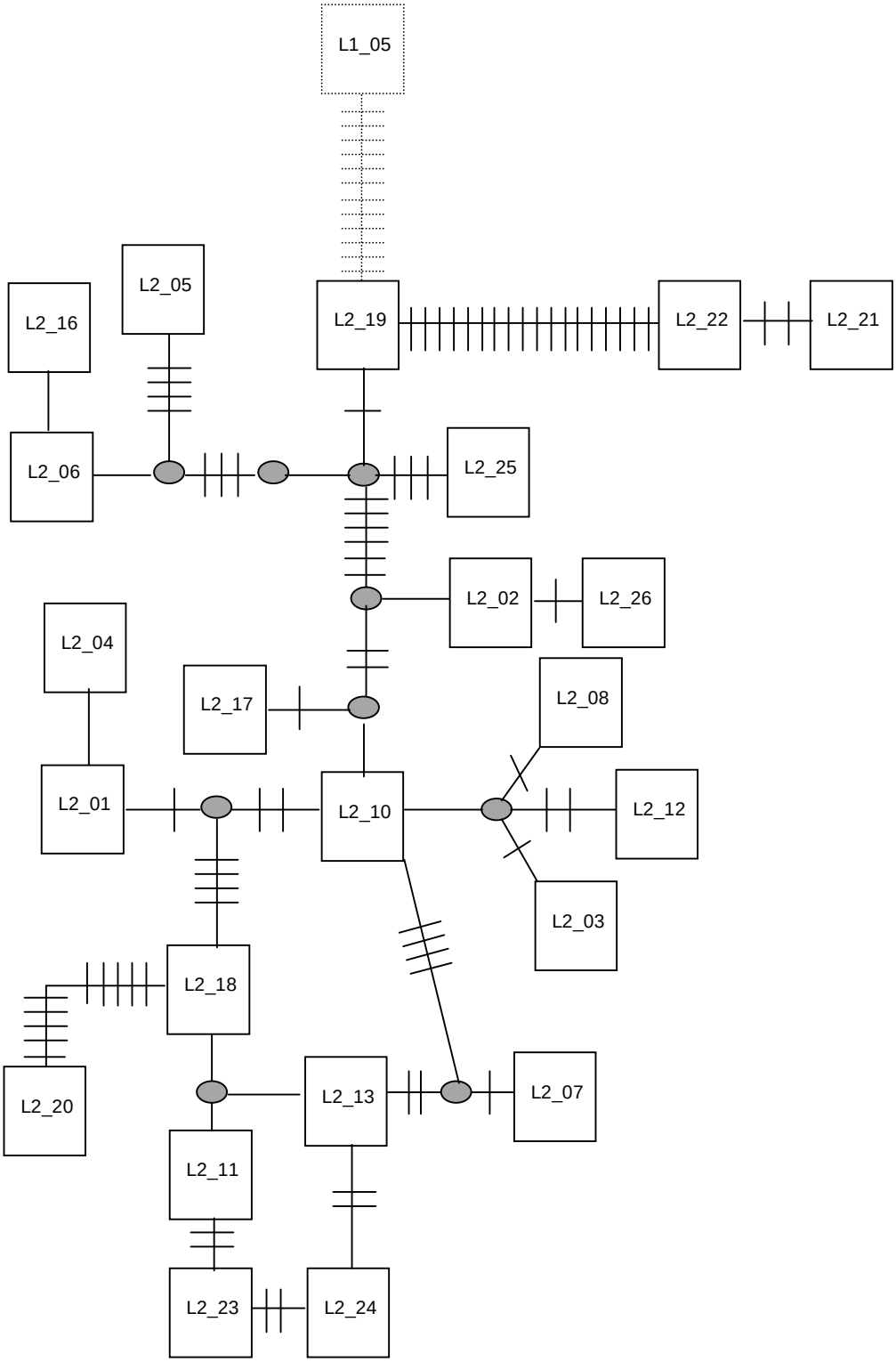


Figure 3a. Statistical phylogenetic network of DAB1 and DAB1(2) haplotypes identified in Rio Grande silvery minnow. Ovals and bars represent single nucleotide changes among haplotypes (indicated by boxes). Haplotype Hyam-DAB1*5 is shown on both pages and links the networks.

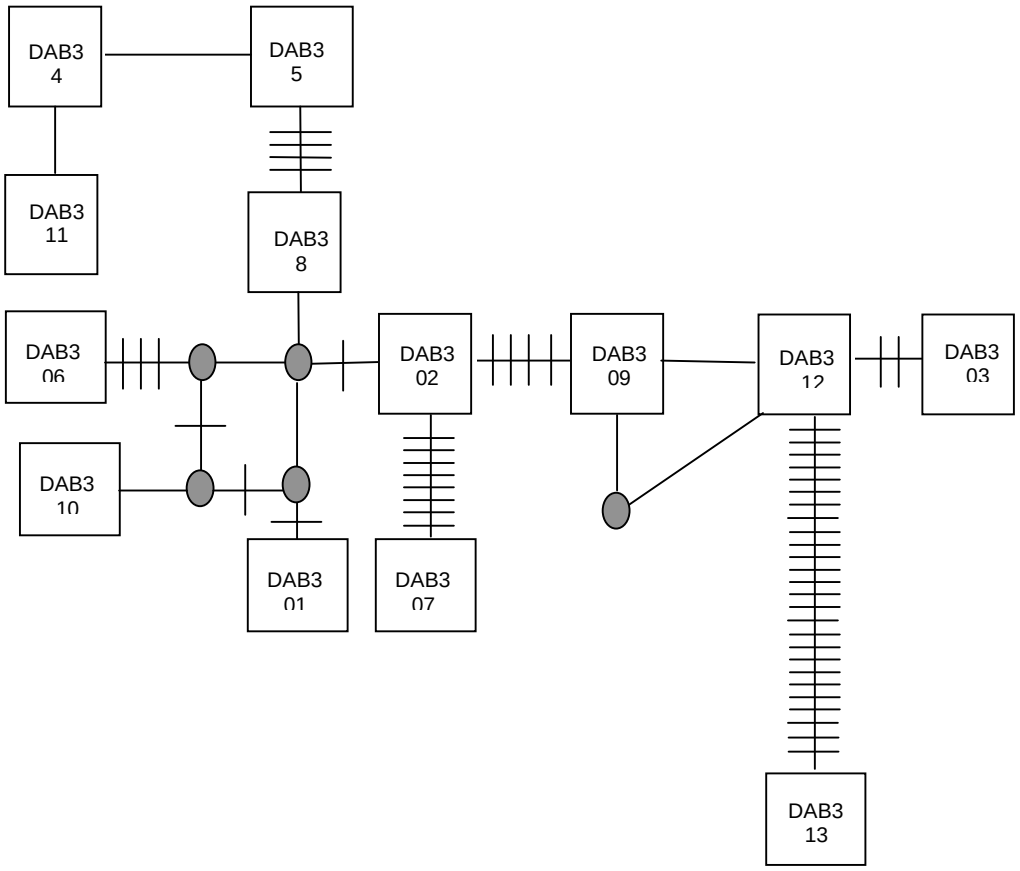


Figure 3b. Statistical phylogenetic network of DAB3 alleles identified in Rio Grande silvery minnow. Ovals and bars represent single nucleotide changes among haplotypes (indicated by boxes).

of the silvery minnow DAB1 groups included 22 alleles (80% posterior probability). The next group contained 55 alleles (61% posterior probability). The position of 10 DAB1 alleles was less well resolved with respect to these well-supported groups. The last of these groups was DAB1(2) (100% support), containing 25 different alleles which had 100% posterior probability support. The relationships identified by the statistical phylogenetic networks were consistent with the Bayesian results. Statistical phylogenetic networks demonstrate the high number of nucleotide substitutions among haplotypes within both the DAB1 and DAB1(2) groups (Figure 3a-b). In 2006, eight haplotypes were identified within the DAB3 group from 274 base pairs of sequence. In 2008, seven haplotypes were identified belonging to this group. Haplotype Hyam-DAB3*13 was very distinct from the other DAB3 alleles. Within this group DAB03*06 was the most frequently encountered allele in 2006 and in 2008. Divergence among the DAB3 alleles is much less than either of the DAB1 groups.

Evidence of Selection

When all sites and all alleles were considered, neutrality was rejected in favor of positive selection (Table 4). This was the case when only peptide binding sites and non-peptide binding sites were considered, and when all DAB1 alleles were considered. Interestingly, neutrality could not be rejected for DAB3 sequences when only peptide binding sites were considered but there was evidence of positive selection when all sites were considered and for non-peptide binding sites. For consideration of DAB1(2) alleles only, positive selection was evident when all sites were included but not when data was partitioned into sites involved with peptide binding or non-peptide binding.

MHC Diversity- Individuals and Allelic Groups

Individuals expressed alleles that belonged to one, two or three different allelic groups. In 2006, the maximum number of alleles identified per individual was five and in 2008 was it was four alleles. The mean number of alleles expressed per individual was 1.9 (Std. Dev. = 0.93) in 2006 and in 2008, the mean was 1.4 (Std. Dev.= 0.90) (Figure 4). Based on the phylogenetic analysis of alleles, individuals could be placed into the following groups: 1) individuals that expressed one or multiple alleles from a single allelic group [DAB1, DAB1(2) or DAB3]; 2) individuals that expressed one or multiple alleles from multiple allelic groups [DAB1 & DAB1(2); DAB1 & DAB3; DAB1(2) & DAB3] and 3) individuals that did not express alleles (or expression was not detected) in any allelic group. In 2006, four individuals were identified that did not appear to express (or expression was not detected) any MHC allele. RNA may have been degraded in

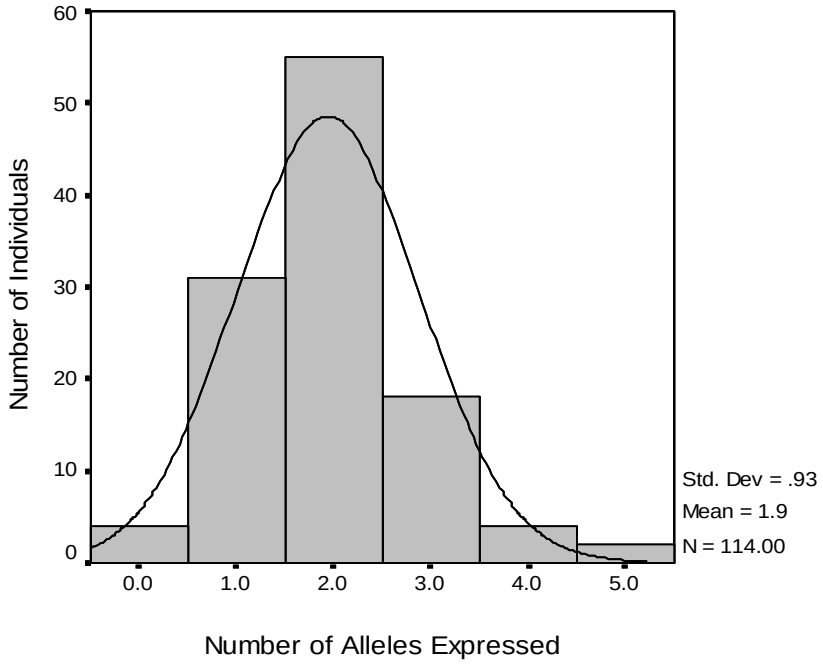
these samples. Using genomic DNA as template however, a PCR product was obtained for each of these individuals. In 2008, we could not determine MHC alleles for 23 individuals. Amplification of MHC was either unsuccessful due to absence of MHC expression or due to degradation of RNA or in some cases amplification was successful but sequence was not obtained. In 2006 and 2008 around 5% of fish expressed alleles representing each of the three allelic lineages. In 2006 the majority of fish (57%) expressed alleles belonging to two different groups, whilst 34% expressed alleles belonging to a single group. In 2008, the majority of individuals expressed alleles belonging to two allelic groups (59%) whilst 43.1% expressed alleles from a single group. In 2006 and 2008, 96% of individuals expressed alleles belonging to the DAB1- DAB1(2) group. In 2006 alleles belonging to the DAB3 group were only detected in 10.5% of individuals and only a single allele per individual (i.e. all individuals were homozygous) was identified within this allelic group. In 2008, we identified alleles from this group in 23% of individuals.

The average number of amino acid substitutions within each of the main allelic groups was 14.191 (SE = 1.936) substitutions for DAB1 alleles, 9.383 (SE = 1.558) among DAB1(2) alleles and 9.244 (SE = 1.757) among DAB3 alleles. There was an average of 20.520 (SE = 2.853) amino acid substitutions between the DAB1(2) group of alleles and the DAB1 group, whilst between these groups and the DAB3 group there were 46.244 (SE = 4.226) and 46.597 (SE = 4.310) amino acid changes, respectively. The number of amino acid changes between all Rio Grande silvery minnow the three DAB groups of alleles and outgroup alleles was 42.218 (DAB1), 42.391 [DAB1(2)] and 34.308 (DAB3).

Association between MHC and parasite diversity

In 2006, no correlation was found between the number of MHC alleles or the number of allelic groups and parasite diversity or intensity of infection (Table 5), nor was there an association between MHC and bacterial diversity. Spearman's Rho was significantly positive (after Bonferroni correction) for comparisons between populations (sampling locality) and parasite diversity ($rho = 0.341$, $P < 0.0001$), the number of MHC alleles identified per fish and the number of allelic groups ($rho = 0.195$, $P < 0.0001$) and between the parasite diversity and infection intensity. In 2008, Spearman's Rho was significantly negative for comparisons between collection locality and parasite diversity and infection intensity and for the comparison between parasite diversity and bacterial diversity. Spearman's Rho was significantly positive for the comparison of collection locality and bacterial diversity.

a)



b)

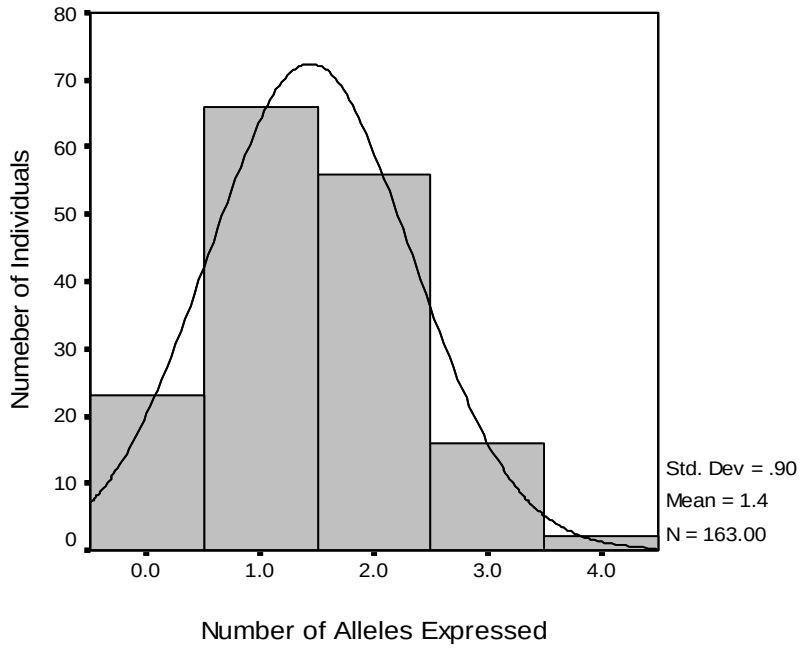


Figure 4. Number of alleles expressed per fish in a) 2006 and b) 2008.

Table 4. The number of sequences (N), number of non-synonymous changes per non-synonymous site (d_N), number of synonymous changes per synonymous site (d_S) and standard errors (SE) associated with these for all alleles, and by allelic groups [DAB1, DAB1(2) and DAB3] and for all sites, peptide binding sites. The ratio of d_N to d_S and results of Z-tests (where the null hypothesis is $d_N=d_S$) (and associated P-values) are given. Significant values are shaded.

		All Alleles	**SE**	**DAB1 & DAB1(2)**	**SE**	**DAB01**	**SE**	**DAB1(2)**	**SE**	**DAB03**	**SE**
	N	73		60							
All-Sites	dN	0.2412	0.0316	0.1282	0.0218	0.1000	0.0169	0.0677	0.0133	0.0613	0.0118
	dS	0.1036	0.0195	0.0342	0.0111	0.0229	0.0101	0.0258	0.0091	0.0214	0.0101
	dN/dS	2.3282		3.7485		4.3668		2.6240		2.8645	
	dN≠dS	**4.3821**	P=0.0000	4.9102	P=0.0000	4.4016	P=0.0000	2.8427	P=0.0053	2.4919	P=0.0141
PBR Only	dN	0.5025	0.0936	0.3024	0.0735	0.2603	0.0572	0.1468	0.0430	0.0802	0.0270
	dS	0.2381	0.0800	0.0872	0.0361	0.0813	0.0349	0.0352	0.0211	0.0469	0.034
	dN/dS	2.1105		3.4679		3.2017		4.1705		1.7100	
	dN≠dS	**2.7185**	P=0.0075	3.4395	P=0.0008	3.0874	P=0.0025	2.6577	P=0.0089	0.7813	P=0.435
Non-PBR	dN	0.1787	0.0296	0.0843	0.0187	0.0660	0.0149	0.0435	0.0113	0.0551	0.0131
	dS	0.0681	0.0189	0.0225	0.0095	0.0151	0.0094	0.0228	0.0100	0.0125	P=0.0083
	dN/dS	2.6241		3.7467		4.3709		1.9079		4.4080	
	dN≠dS	3.0989	P=0.0024	3.2781	P=0.0014	2.7375	P=0.0071	1.5340	P=0.1276	2.6170	P=0.0100

Table 5. Spearman's rho is given below the diagonal and associated P-Values are given above the diagonal for a) 2006 and b) 2008. Significant values are shaded (P < 0.05).

a)

rho	Collection Locality	# Parasite Species	# Bacteria Species	Infection Intensity	# Allelic Groups	Number MHC Alleles
Collection Locality	*	0.0002	0.4227	0.0301	0.7746	0.0375
# Parasite Species	0.3414	*	0.5278	0.0000	0.0787	0.1471
# Bacteria Species	0.0758	-0.0597	*	0.0982	0.3673	0.0834
Infection Intensity	0.2032	0.8465	-0.1557	*	0.1572	0.1464
# Allelic Groups	0.0271	-0.1654	0.0852	-0.1334	*	0.0000
# MHC Alleles	0.1951	-0.1366	0.1629	-0.1369	0.7972	*

b)

rho	Collection Locality	# Parasite Species	# Bacteria Species	Infection Intensity	# Allelic Groups	Number MHC Alleles
Collection Locality	*	0.000	0.000	0.000	0.930	0.685
# Parasite Species	-0.634	*	0.000	0.000	0.655	0.958
# Bacteria Species	0.394	-0.329	*	0.000	0.691	0.549
Infection Intensity	-0.608	0.929	-0.293	*	0.795	0.962
# Allelic Groups	0.007	0.035	-0.031	0.020	*	0.000
# MHC Alleles	0.032	0.004	-0.047	-.004	0.900	*

Error bar plots of the mean level of infection in fish with the presence or absence of the five most common alleles were constructed (2006 and 2008 data were pooled). These suggested that there may be significant associations between particular alleles and parasites (Figure 5a-e). The expression of Hyam-DAB1*05 was associated with lighter *Costia* spp. Infection, whilst expression of Hyam-DAB2*06 was associated with heavier *Costia* spp. infection. Expression of Hyam-DAB1*13 was associated with heavier *Apiosoma* infection. No relationship was detected between presence or absence of Hyam-DAB1*03 or Hyam-DAB2*04 and infection by a particular species.

Relationship of sampling locality, parasites and genetic diversity- 2006

There was no noticeable difference among sampling localities in the amount of neutral genetic diversity (measured at the mtDNA-ND4 locus and across microsatellite loci) (Figure 6a). In contrast, there were more alleles expressed at MHC Class IIβ in fish collected from Bernalillo (WRJ06-468) and Alameda (WRJ06-466) when compared to fish collected from the southern sampling localities (La Joya and San Antonio). There were no strong trends in the number of parasite species or the level of infection between sampling localities. Nevertheless, overall level of infection appears to be higher in fish collected from the northern sites, whilst more parasite species were found on fish collected from Los Lunas (WJR06-462) and La Joya (WJR06-461). Fish collected from Los Padillas had the highest average level of infection.

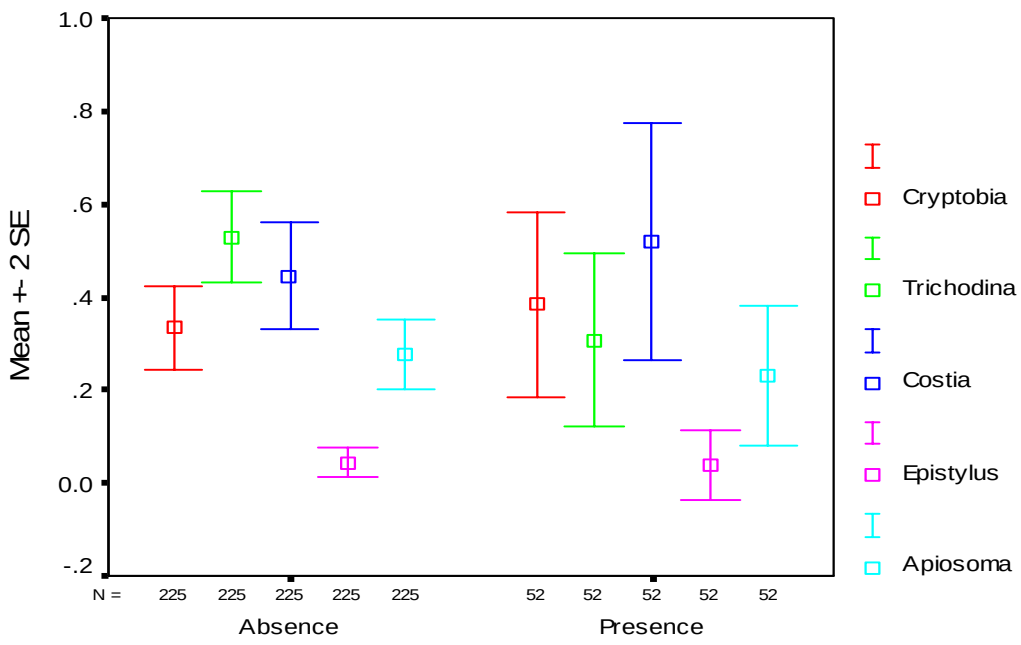
Relationship of sampling locality, parasites and genetic diversity- 2008

In 2008, there was no difference in the amount of neutral genetic diversity as measured by allelic richness and total number of ND4 alleles among collection localities (Figure 6b). There were also no clear trends in the number of MHC alleles detected and collection locality. There was a striking trend in the average number of parasite species found on individuals by collection locality, with few species and very low infection levels at the two most northern sites (Bernallilo and Alameda), moderate infection levels and nubmber of species at Los Padillas and higher numbers of species and levels of infection on fish from Los Lunas, La Joya and Los Padillas.

Discussion

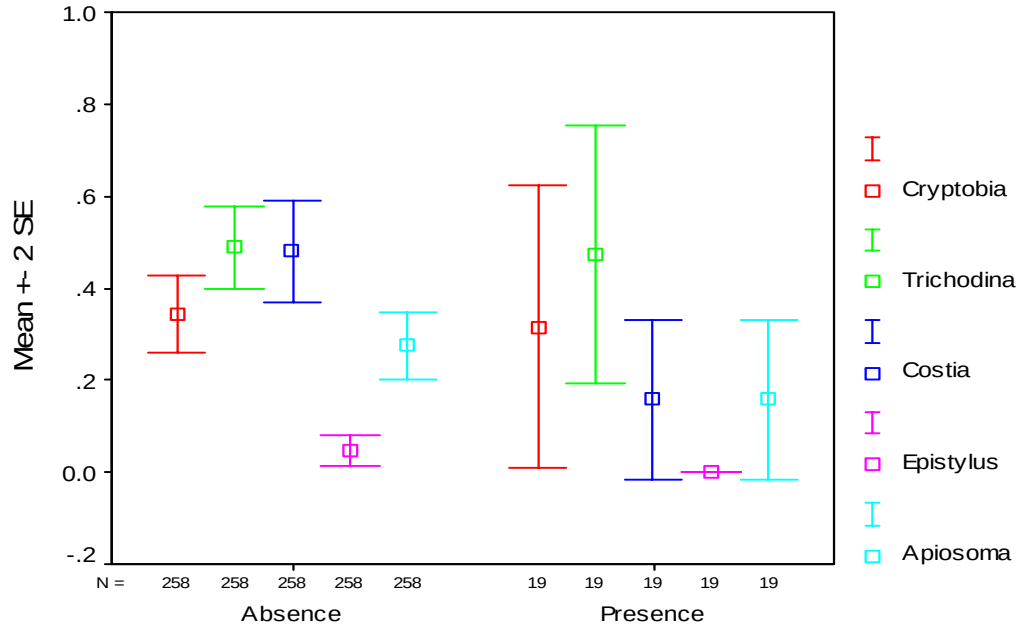
The goals of this study were to describe genetic variation in the endangered Rio Grande silvery minnow at loci that form a crucial component of the adaptive immune system and

a)



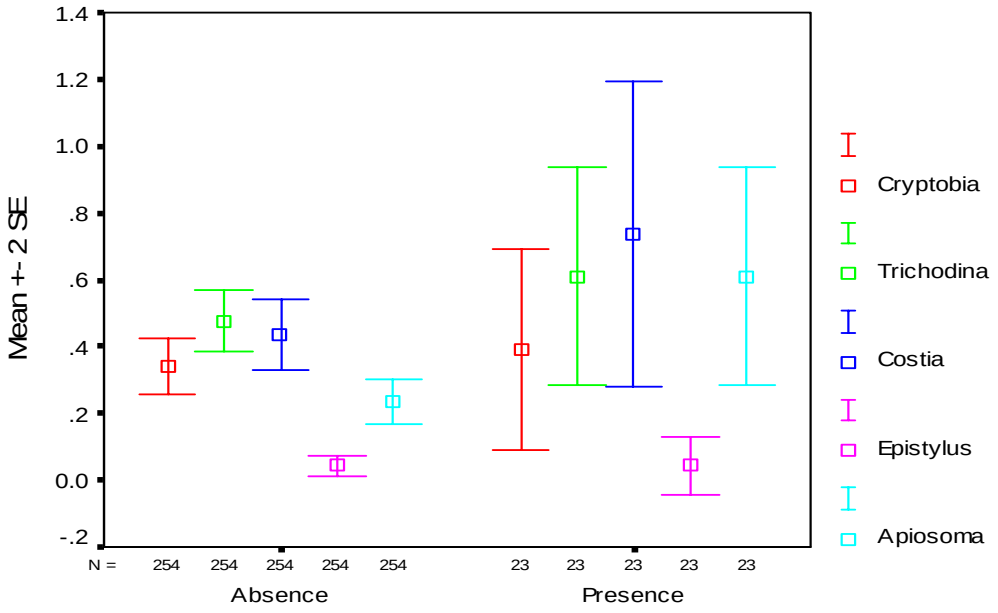
DAB1_3

b)



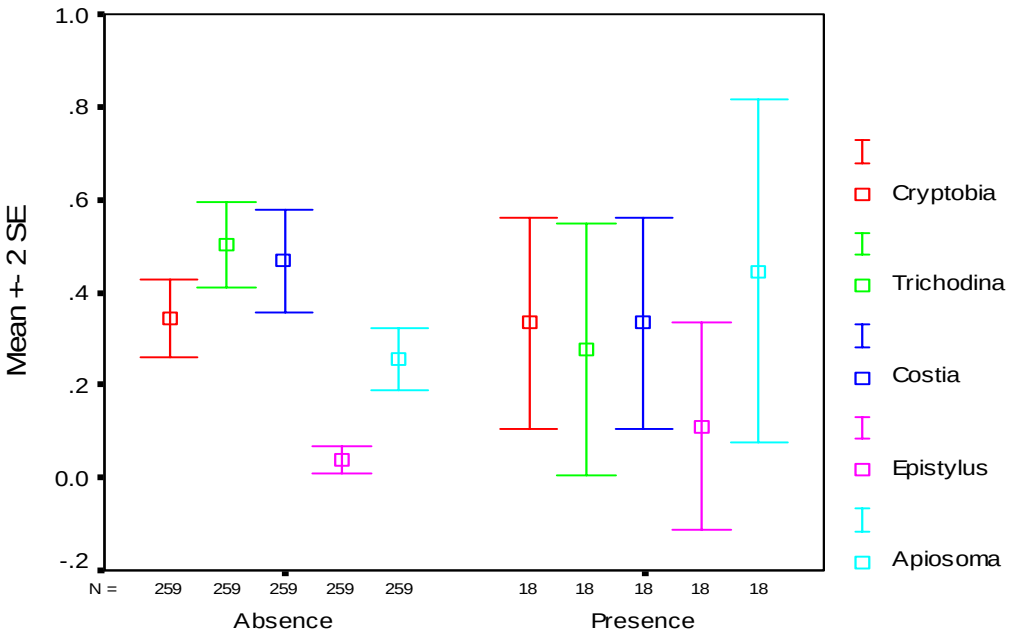
DAB1_5

c)



DAB1_13

d)



DAB2_4

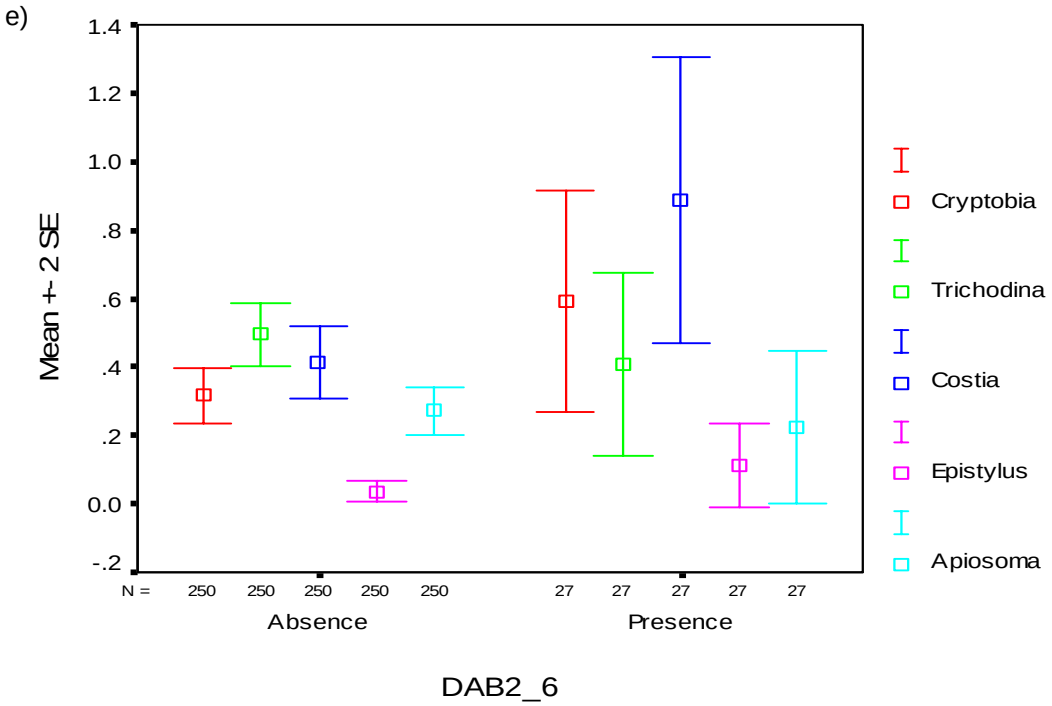


Figure 5 a-e. Standard error plots of mean parasite infection by Cyptobia, Trichodina, Costia, Epistylus and Apiosoma in the presence and absence of a) Hyam-DAB1*03, b) Hyam-DAB1*05,c) Hyam-DAB1*13, d) Hyam-DAB1(2)*04, e) Hyam-DAB1(2)*06.

to examine the relationship between this genetic variation and fish pathogen data. Major findings of this study include: i) identification of three evolutionarily divergent lineages of MHC Class IIβ alleles in Rio Grande silvery minnow; ii) differences in selective regimes between allelic groups, with evidence of strong selection in DAB1 and DAB1(2) groups; iii) retention of high levels of MHC Class IIβ allelic variation; iv) spatial differences in the amount of MHC Class IIβ diversity; v) no correlation between MHC Class IIβ and parasite diversity measures and vi) some evidence of association between particular alleles and presence or absence infection with particular pathogens. This study also includes the first description of MHC Class IIβ in a North American cyprinid fish and is one of only a handful of wild population-level studies that simultaneously compare MHC diversity and fish parasite communities.

Three divergent lineages of MHC Class IIβ alleles were identified in Rio Grande silvery minnow and two are highly homologous with allelic groups previously described in cyprinids (DAB1 and DAB3) (Ono *et al.* 1992; Graser *et al.* 1996; Sultmann *et al.* 1994; Ottova *et al.* 2005). The other allelic group [DAB1(2)] falls within the DAB1 group. Whether or not these lineages of alleles represent alleles of a single locus or are alleles of different loci is yet to be resolved (Ottova *et al.* 2005) and is complicated by the different ploidy (the number of homologous sets of chromosomes) levels in cyprinids. For example, the zebrafish and members of the Leuciscinae (includes North American cyprinids) are diploid (two sets of chromosomes), common carp is tetraploid (four sets of chromosomes) whilst the African ‘large’ barb is hexaploid (six sets of chromosomes). In the latter case, if there was a single heterozygous locus, the maximum number of alleles would be six (one allele per chromosome). With each additional locus, the number of alleles possible would double. The MHC sequences obtained during this study share homology with sections on zebrafish chromosome 8 (two distant locations) and to a single region on chromosome 13. DAB sequences identified in Rio Grande silvery minnow could therefore represent two paralagous sets of loci which has also been suggested for other cyprinid species (van Erp *et al.* 1996). Segregation studies performed in common carp suggested that there were two sets of paralagous loci (DAB1/DAB2 and DAB3/DAB4) that segregated independently (van Erp *et al.* 1996). Paralogous loci are clusters of genes that are at different chromosomal locations in the same organism but that are structurally similar indicating that they are derived from a common ancestral gene and have diverged following duplication or translocation by mutation, selection or drift. Additional data for Rio Grande silvery minnow exon 3 and

introns 2 and 3 (not presented) shows that exon 3 is highly divergent (between DAB1 and DAB3 alleles) while the introns cannot be aligned between these two allelic groups. This observation and the distant positions of DAB1 and DAB3 allelic groups in the phylogenetic tree, supports the notion that DAB1 and DAB3 may be distinct loci. The relationship between DAB1 and DAB1(2) is unclear, however the similarity of DAB1 and DAB1(2) exon 2, exon 3 and introns (data not included) suggest a more recent duplication event.

Selective regimes acting on each of the allelic lineages were variable which supports the possibility of multiple loci. There was evidence of positive, diversifying selection on all major groups of alleles including the Hyam-DAB3 group and the Hyam-DAB1 and Hyam-DAB1(2) groups with the majority of nucleotide substitutions resulting in amino acid changes. In several cases the d_N:d_S ratios were greater than three, a signature of strong positive selection. When the data was partitioned into sites thought to be involved with peptide binding and those that are non-peptide binding sites the results were more ambiguous. Hyam-DAB1 there was evidence for strong positive selection at peptide binding sites as well and non-peptide binding sites. For Hyam-DAB1(2) this was not the case and for Hyam-DAB3 only non-peptide binding sites appeared to be under positive selection. The designation of peptide binding sites in fish is based on the three dimensional structure of human HLA so it is possible that there are additional peptide binding sites in fish that are yet to be identified. Ottova *et al*. also considered the selective pressures acting on MHC allelic groups in Leucisinae and Cypininae and found evidence of positive selection on DAB3 for the former group, but on both DAB1 and DAB3 for the latter group. Ottova *et al.* (2007) suggests that DAB1 may have secondarily acquired function.

There are some puzzling features of Rio Grande silvery minnow DAB3 including the infrequency of transcription (and rarity of presence in genomic DNA) of DAB3 alleles (~10% of individuals) and the absence of any individuals with more than allele at this locus. A possible explanation for both of these observations is the presence of null DAB3 alleles at high frequencies in the population. A null allele is an allele that consistently fails to amplify and this may be because of mutations within the section of sequence where the PCR primer is designed to anneal. Alternatively there may be transcriptional regulation of expression whereby sequences are present in genomic DNA but not all are transcribed or alternatively, there may be inactivation of other MHC copies by codon deletions or accumulation of mutations, which would make the genes non-functional in

the immune response. The former has been demonstrated in polyploid species including the African 'large' barb (Kruiswijk *et al.* (2004), and the latter has been shown in the African clawed frog, *Xenopus* (Sato *et al.* 1993). We do not think that the former possibility is the case in Rio Grande silvery minnow, as DAB3 sequences from could not be amplified from the genomic DNA of any additional individuals. Van Erp *et al.* (1996) suggested that inheritance of MHC in cyprinids may not follow Mendelian rules.

We observed amino acid polymorphisms among alleles within the DAB3 group that were shared between divergent cyprinid lineages (e.g. Rio Grande silvery minnow, common carp and carp bream). These polymorphisms were often ones that distinguish DAB1 and DAB3 lineages. Sharing of residues may be a result of convergent evolution or may be a result of shared ancestry with maintenance of ancestral polymorphisms through selection (Hughes *et al.* 1994). In mammals, it has been suggested that there is an upper time limit (separations of 30-40 million years) for the sharing of ancestral MHC polymorphisms (Takahata & Nei 1990; Hughes *et al.* 1994). The family Cyprinidae is roughly 40 million years old (Zardoya & Doadrio 1999) and so is at the upper limit of the time scale suggested for conservation of shared polymorphism in mammals.

The Rio Grande silvery minnow population is characterized by high MHC Class IIβ diversity with 72 alleles recognized among 254 individuals. Taking the differences in sample sizes between studies into account, this diversity is comparable to the one cyprinid species for which limited population level data is available. The recent study of the carp bream identified 32 different exon 2 sequences (DAB1- 17 alleles, DAB3- 15 alleles) among 20 individuals (Ottova *et al.* 2007). A smaller dataset obtained for two species of zebrafish revealed 36 alleles (based on intron 1 and exon 2 sequences) from 28 fish (Graser *et al.* 1996). A similar comparison across four species of African 'large' barb recognized 29 DAB1 alleles among 16 individuals (Kruiswijk *et al.* 2005). Among salmonids, Dorschner *et al.* (2000) identified 42 MHC Class IIβ alleles among 74 individual lake trout and 88 alleles in steelhead trout (Aguilar & Garza 2006). However, high level of diversity appears to be the exception within this group with only nine alleles identified from 120 Atlantic salmon (Langefors 2001), 11 DAB1 alleles identified among 13,000 sockeye salmon and in Gila trout only five alleles were identified from 142 individuals assayed (Peters and Turner, In Press). Differences in habitat, environment and exposure to pathogens may account for differences in MHC diversity among cyprinid and salmonid taxa. For example, Rio Grande silvery minnow inhabits a warm-water system where parasites and pathogens are more prevalent than in cold-water

mountain streams. Unfortunately there is no MHC data from other Southwestern cyprinid taxa with which to compare our silvery minnow data, so we do not know if the level of MHC diversity in this species is 'normal'. In addition to large numbers of alleles, the level of divergence among DAB1 alleles is generally high in silvery minnow. Large divergence among alleles could be explained by either rapid mutation rate or long persistence time of allelic lineages (Klein *et al*. 1993). Findings of Grase et al. (1996) support the latter explanation.

The high level of MHC Class IIβ diversity seen in Rio Grande silvery minnow is in stark contrast to low levels of variation (in terms of number of alleles and the divergence between them) at the mtDNA ND4 locus. We have screened in excess of 3000 Rio Grande silvery minnow for mtDNA ND4 variation and only identified 14 closely related ND4 alleles (Osborne et al. 2005). The low level of mtDNA diversity is indicative of a severe historical population bottleneck in Rio Grande silvery minnow. Furthermore the contemporary population is characterized by a small genetic effective size (N_{ev}~100 Turner and Osborne unpublished data). Differences in levels of variability between the different markers (mtDNA, microsatellites and MHC) are likely due to differences in selective pressures, ploidy levels, mutation rates and inheritance patterns.

An unexpected result of this study was the difference in the number of MHC Class IIβ alleles expressed at each of the localities, with fewer alleles expressed by fish in southern sites in 2006. In 2008 however there were similar numbers of MHC alleles detected at each of the localities with the highest number seen at La Joya. Data from neutral markers (microsatellites and mtDNA) allow genetic drift to be discounted as a driving factor behind this observation, as we see no differences in number of alleles identified at these loci. In addition, frequencies of mtDNA-ND4 haplotypes and microsatellite alleles do not differ significantly among collection localities, which is consistent with high gene flow between the Rio Grande silvery minnow sampling localities (Osborne *et al.* 2005). Rio Grande silvery minnow produce non-adhesive pelagic eggs that are subject to drift with river currents (Platania and Altenbach 1998, Osborne *et al.* 2005) allowing homogenization of the population. Although there are water diversion structures that preclude upstream movement, management activities, particularly augmentation of the wild population with captively reared fish, also results in mixing of the population.

There have only been a handful of studies that have considered the relationship between MHC and pathogens in fish. From these studies, three conclusions have been

drawn: i) survival to infection and susceptibility may be associated with specific MHC alleles (e.g. Langefors 2001); ii) resistance or survival from infection may be associated with increased MHC heterozygosity (Arkush *et al.* 2002; Hedrick *et al.* 2001b) or; iii) parasites may drive MHC variability but there is an optimal number of MHC alleles within an individual (Wegner *et al.* 2003). In Rio Grande silvery minnow we were only able to test for a relationship between the number of MHC alleles and number of allelic groups per fish as heterozygosity and nucleotide diversity could not be calculated (because alleles could not assigned to loci). A significant association between the number of MHC Class IIβ alleles expressed and the number of parasites infecting an individual was not seen. There was also no relationship observed between the number of allelic groups represented (within individuals) and parasite diversity measures (number of species and overall level of infection). This is concordant with the results of Ottova (2007). In fact, in carp bream, expression of two alleles from a single allelic type was associated with higher ecto-parasite loads (Ottova *et al.* 2007). They also found that increased nucleotide diversity measured at alleles of a single type was associated with higher abundances of the ecto-parasites *Dactylogyrus* spp. and *Ergasilus* spp., and that immunocompetance was lower in these fish.

Although not rigorously tested statistically (because of relatively small sample sizes), there did appear to be an association between expression of Hyam-DAB1*05 by Rio Grande silvery minnow and lighter infection by *Costia* spp. There also appeared to be an association between the presence of Hyam-DAB1(2)*06 and heavier *Costia* spp. Infection and between presence of Hyam-DAB1*13 and heavier *Apiosoma* infection. If these relationships prove robust it would be the first report in a cyprinid fish of a specific association between an MHC allele and a parasite species. In carp bream no association was detected between expression of certain MHC Class IIβ alleles and resistance to specific parasites (Ottova *et al.* 2007). This was also true for the three-spined stickleback (*Gasterosteus aculeatus*) (Wegner *et al.* 2003). These species are characterized by large numbers of alleles that are generally present at low frequencies within the population. This combination of factors limits the power to test for correlations between parasite species richness and abundance and MHC diversity. Rio Grande silvery minnow MHC Class IIβ also has many alleles but most are present at low, so it is surprising that we see evidence of relationships between particular alleles and infection with particular parasites. There may also be effects of collection locality on these results.

In contrast to cyprinids, salmonids have a single MHC Class IIβ locus and few alleles present at high frequencies improving chances of detecting significant associations (Stet *et al.* 2002). The salmonid studies also selected particular pathogens *a priori* to test for association with MHC alleles (Miller *et al.* 2004; Grimholdt et al 2003). The ecto-parasites that were encountered on Rio Grande silvery minnow gills were all generalist, opportunistic pathogens that have direct life-cycles (i.e. no intermediate host). Klein & O'Huigin (1994) suggested that the immune system of hosts would be more likely to evolve in response to specific parasites than to generalists and hence MHC polymorphism should be more impacted by specific parasites. The relationship between the hosts immune system and parasites is also likely to be a dynamic one and immunity/susceptibility may also involve interaction between multiple alleles.

The relationship of parasites, hosts and their variation at MHC is determined by a long list of factors that include both biotic and abiotic features that are intertwined. Some of the factors that affect parasite abundance include the physiology and biological features of the host, chemical properties of the water, the age of the fish (and hence its size), diet of the host, size and connectivity of the habitat that the fish occupies (reviewed in Dogiel *et al.* 1961) and the history of co-evolution between host and pathogen. MHC is not only involved with immunity but in some species of fish these genes play a role in mate choice so there may be a tradeoff between these functions. The present study on MHC Class IIβ genes within the wild population of Rio Grande silvery minnow provides a crucial data set that will allow future investigations of the various factors that may drive diversity at MHC genes of this species.

Conclusions and Implications for Management

MHC variation in in Rio Grande silvery minnow is decoupled from microsatellite and ND4 variation. Further investigation of MHC Class IIβ genes in Rio Grande silvery minnow is required to understand the mechanisms that drive diversity at these genes.

Further research will involve trying to determine the number of MHC loci that are present in this species. This will allow more accurate measures of MHC diversity to be obtained. Coupling this information with increased sample size and more accurate measures of parasite load would improve our power to detect associations between MHC and parasite diversity. Variation in MHC allele frequencies among populations and the high number of rare MHC alleles argues for wide collection of broodstock for hatchery practices, or ideally collection of wild-caught eggs encompassing the geographic range

of the species. Further research is needed that seeks to understand whether there is: i) transcriptional regulated of allelic variation or; ii) regulation at the genomic level which would allow a deeper understanding of management implications of MHC variation in Rio Grande silvery minnow.

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