

# Science and Adaptive Management Committee Meeting

## *August 21, 2023*

### Meeting Materials:

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[Climate Futures Planning Workshop Schematic \[read-ahead\]](#)

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[Final Restoration Compendium Ad Hoc Charge \[read-ahead\]](#)

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[Member Call for Restoration Compendium & SER Recovery Wheel Ad Hoc Groups \[read-ahead\]](#)

[Funding Opportunities Matrix \[read-ahead, spreadsheet\]](#)

[Funding Opportunities Graphic \[read-ahead\]](#)

[SAMC Memo to EC – Recs for Mgmt of Vegetated Islands Bars \[read-ahead\]](#)

[List of Program Portal Data Sets 2023 \[read-ahead\]](#)

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[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

Agenda



# Middle Rio Grande Endangered Species Collaborative Program

Est. 2000

## Science and Adaptive Management Committee (SAMC) Meeting Agenda

August 21, 2023; 12:00 – 4:00 PM

Location: Zoom

<https://west-inc.zoom.us/j/8983593120?pwd=bU54V3NGeG93bXVlSlJFcElzcE9wZz09>

Call-In: +1-669-900-6833

Meeting ID: 898-359-3120; Passcode: 1251

### Meeting Objectives:

- Hear updates from the June Executive Committee (EC) meeting
- Hear update on December 2023 MRGESCP Science Symposium
- Hear update on October 2023 Climate Futures Planning Workshop
- Discuss proposed changes to the SAMC meeting format and member leadership
- Discuss Restoration Compendium and Society for Ecological Restoration (SER) Recovery Wheel Ad Hocs
- Discuss coordination with Fiscal Planning Committee (FPC)
- Hear update on action items from memo on management of vegetated islands and bank-attached bars
- Hear update on Program Portal data sets

- 12:00 – 12:10 **Welcome, Guest Introductions, Agenda Review** *Catherine Murphy, Program Support Team (PST)*
- ✓ **Decision:** Approval of August 21, 2023 agenda
- 12:10 – 12:15 **May Meeting Minutes and Action Item Review** *Catherine Murphy, PST*
- ✓ **Decision:** Approval of May 30, 2023 SAMC meeting minutes
- Read-Ahead:
- Draft May 30, 2023 SAMC Meeting Minutes
- 12:15 – 12:30 **Updates from Jun 2023 EC Meeting and August FPC Meeting** *Debbie Lee, PST*
- June EC
    - Multi-year Plan Revisions
      - EC guidance on environmental justice, cultural and socio-economic impacts
      - SAMC suggestions from first review have been incorporated
      - PST will format the next review as a table
    - Proposed paper on MRGESCP's transition to adaptive management
  - **Action Item:** PST reformat and resubmit Multi-Year Plan to SAMC for final review
- 12:30 – 12:35 **Update on December 2023 MRGESCP Science Symposium** *Debbie Lee, PST*
- Date, location, registration and call for abstracts

- Encouraging student engagement

12:35 – 12:50 **Updates on October 2023 Climate Futures Planning Workshop** *Catherine Murphy, PST*

- Date, location and overview of event
- Small planning group update and South Central Climate Adaptation Science Center (SC-CASC) coordination
- September field trip to [Whitfield Wildlife Conservation Area](#)
- ✓ **Decision:** Would any SAMC members like to help facilitate the workshop?
- **Action Item:** PST will coordinate with interested members

Read-Ahead:

- Climate Futures Planning Workshop Schematic

12:50 – 1:30 **New SAMC Meeting Format and Member Leadership** *Group discussion*

- Proposed changes to meeting format
- Roles, responsibilities and modes of engagement under proposed format
- SAMC leads for current topics and SAMC-suggested topics
- ✓ **Decision:** Does the SAMC approve the proposed changes to the meeting format?
- **Action Item:** If approved, PST will implement this change
- ✓ **Decision:** On which topics will individual SAMC members take the lead?
- **Action Item:** PST will coordinate, support and track member topics of choice

Read-Aheads:

- List of Current Topics Needing SAMC Leads
- Schematic of Relationships Among Topics

1:30 – 2:00 **Restoration Compendium and SER Recovery Wheel Ad Hoc Groups** *Meaghan Conway and Ondrea Hummel, SAMC*

- Relationships and future direction of these ad hocs
- Restoration Compendium Ad Hoc Group
  - Final group charge and member call
  - Draft compendium ready for ad hoc group review
- SER Recovery Wheel Ad Hoc Group
  - Final group charge and member call
  - External SER expertise
- Peer review of content and user experience
- ✓ **Decision:** Does the SAMC recommend any individuals for participation on the SER Recovery Wheel or Restoration Compendium Ad Hocs?
- **Action Item:** PST will contact recommended individuals

Read-Aheads:

- Final Restoration Compendium Ad Hoc Charge
- Final SER Recovery Wheel Ad Hoc Charge
- Member Call for Restoration Compendium & SER Recovery Wheel Ad Hoc Groups

2:00 – 2:10 **BREAK**

2:10 – 2:50

**Coordination with Fiscal Planning Committee**

*Aubrey Harris,  
SAMC, and Catherine  
Murphy, PST*

- Need for coordination; SAMC/FPC liaisons; memos to EC
- MRGESCP Funding Opportunities Matrix
- Discuss a Request For Proposals (RFP)-based framework
- Long-Term Plan (LTP) project evaluation
- ✓ **Decision:** Does the SAMC approve the proposed mode of coordination with the FPC?
- **Action Item:** If approved, SAMC/FPC liaisons will attend meetings and report on committee initiatives
- ✓ **Decision:** What next steps does the SAMC recommend regarding project evaluation for the MRGESCP?
- **Action Item:** PST will work with Aubrey Harris to incorporate SAMC feedback regarding project evaluation

Read-Aheads:

- Funding Opportunities Matrix
- Funding Opportunities Graphic

2:50 – 3:15

**Management of Vegetated Islands and Bank-Attached Bars**

*Dave Moore, SAMC,  
and Zoë Rossman,  
PST*

- First recommendation from memo: glossary of relevant technical terms
  - Dave Moore and Ari Posner taking first review
- Next recommendation: identify relevant data sets and data gaps
- ✓ **Decision:** Does the SAMC suggest an approach for identifying data sets and data gaps relevant to vegetated islands/bars?
- **Action Item:** PST will follow-up on SAMC suggestions

Read-Ahead:

- SAMC Memo to EC – Recs for Mgmt of Vegetated Islands Bars (*for reference only*)

3:15 – 3:40

**Program Portal Data Updates**

*Angela Medina-  
Garcia and  
Catherine Murphy,  
PST*

- Review list of data sets being updated
- Discuss protocols for updating Portal data sets and utilizing Information & Data Quality Ad Hoc Group
- ✓ **Decision:** Does the SAMC recommend asking the Information & Data Quality Ad Hoc to provide guidance on data formatting for posting on the Program Portal?
- **Action Item:** If recommended, PST will follow up with Information & Data Quality Ad Hoc

Read-Aheads:

- List of Program Portal Data Sets 2023
- Information & Data Quality Ad Hoc Group Charge (*for reference only*)

3:40 – 4:00

**Action Items, Next Steps, and Announcements**

*PST*

➤ **Upcoming events:**

- Habitat Restoration Coordination field trip: Aug. 22, 9 am – noon (Candelaria Nature Preserve and Aldo Leopold Burn Site)
- Wagner seminar: *Soil fungal community functional shifts following anthropogenic disturbances could negatively impact cottonwoods*; Aug. 24, 10-11 am (Zoom)
- Paklaian seminar: *Post-Fire Flooding and Recovery in the Upper Arkansas River Basin*; Aug. 29, 10-11 am (Zoom)
- Whitfield field trip: September TBD
- EC Meeting: Sept. 28, 1-4 pm (USFWS Office)
- Climate Futures Planning Workshop: October 24-25, 2023; Pueblo of Santa Ana – Tamaya Wellness Center; *registration closes Aug. 31*

➤ **Next SAMC Meeting**: November 2023

4:00

**Adjourn**

[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

Minutes



# Middle Rio Grande Endangered Species Collaborative Program

Est. 2000

## Science and Adaptive Management Committee (SAMC) Meeting Minutes

**August 21, 2023; 12:00 PM – 4:00 PM**

**Location:** Zoom Meeting

<https://west-inc.zoom.us/j/8983593120?pwd=bU54V3NGeG93bXVISIJFcElzcE9wZz09>

Call-In: +1-669-900-6833

Meeting ID: 898-359-3120; Passcode: 1251

### Decisions:

- ✓ Approval of the August 21, 2023 SAMC meeting agenda
- ✓ Approval of the May 30, 2023 SAMC meeting minutes

### Action Items:

WHO	ACTION ITEM	BY WHEN
Program Support Team (PST)	Send out call for abstracts for the Science Symposium	8/25/2023
SAMC	Contact PST if you would like to be involved with the Science Symposium small planning group	8/25/2023
SAMC	Contact PST if you know of any major events that might conflict with the September field trip to Whitfield Wildlife Conservation Area (Whitfield; most likely week of September 18)	8/25/2023
PST	Incorporate SAMC suggestions into Climate Futures Planning Workshop materials regarding streamflow projections	8/29/2023
PST and Aubrey Harris	Follow up with potential speakers regarding a seminar on the Sustainable Rivers Program and environmental flows	8/31/2023
SAMC	Register for the October 24-25 Climate Futures Planning Workshop if you are planning to attend	8/31/2023
SAMC	Contact PST if you would like to help facilitate the Climate Futures Planning workshop	8/31/2023
SAMC	Contact PST with names of individuals who might be a good fit for the Restoration Compendium or Society for Ecological Restoration (SER) Recovery Wheel Ad Hoc Groups	8/31/2023
PST	Post call for membership on Restoration Compendium or SER Recovery Wheel Ad Hoc Groups	8/31/2023
PST and Ara Winter	Update Matt Wunder on the Information and Data Quality Ad Hoc Group tasks and SAMC request	8/31/2023
PST	Schedule the field trip to Whitfield for September	8/31/2023



PST	Finish revising and reformatting the Multi-Year Plan and post on the Client Cloud for final SAMC review	9/5/2023
SAMC	Review the revised and reformatted Multi-Year Plan via the Client Cloud	9/14/2023
SAMC	Provide PST with contacts and/or resources and data sets relevant to mapping or assessment of vegetated islands and bank-attached bars	9/14/2023
PST	Schedule interim coordination meetings with/for SAMC leads on specific topics	9/20/2023
SAMC	Meet with PST and SAMC co-leads to coordinate and prepare materials for November SAMC meeting	September/October

**Next Meeting:** November 30, 2023; 10:00 AM – 12:00 PM

## Meeting Minutes

### Welcome, Guest Introductions, Agenda Review

The August 21, 2023 SAMC Meeting Agenda was approved by attending SAMC members.

- ✓ **Decision:** Approval of the August 21, 2023 SAMC meeting agenda

### May Meeting Minutes and Action Item Review

The draft May 30, 2023 SAMC Meeting Minutes were approved by attending SAMC members.

- ✓ **Decision:** Approval of the May 30, 2023 SAMC meeting minutes

### Updates from June 2023 Executive Committee (EC) Meeting and August Fiscal Planning Committee (FPC) Meeting

At the EC meeting on June 29, 2023, the EC was presented with revisions to the Multi-Year Plan. The EC discussed adding guidance on environmental justice, cultural, and socioeconomic impacts. The EC decided to include these elements in the plan. Ryan Gronewold noted that U.S. Army Corps of Engineers has an environmental justice coordinator that can help support this effort. The suggestions from the SAMC's first review have been incorporated into the Multi-Year Plan. The next review will be formatted as a table.

The EC reviewed an outline for a proposed paper on the MRGESCP's transition to adaptive management. The goal is to submit the paper for publication next year.

- **Action Item:** PST finish revising and reformatting the Multi-Year Plan and post on the Client Cloud for final SAMC review
- **Action Item:** SAMC review the revised and reformatted Multi-Year Plan via the Client Cloud

### Update on December 2023 MRGESCP Science Symposium

The Science Symposium Planning Small Group decided on two top locations for the 2023 Science Symposium: Old Town Farm and Southwestern Indian Polytechnic Institute (SIPI). The theme of the symposium is still being determined but will likely be centered around scaling endangered species management to the ecosystem level.

The Science Symposium Planning Small Group would like to highly encourage student engagement.

- **Action Item:** PST will send out call for abstracts for the Science Symposium
- **Action Item:** SAMC contact PST if you would like to be involved with the Science Symposium small planning group

### Updates on October 2023 Climate Futures Planning Workshop

The Climate Futures Planning Workshop will be held at the Pueblo of Santa Ana Tamaya Wellness Center on October 24-25, 2023. The PST reviewed the workshop schematic. A SAMC member asked how water management would be taking into consideration in workshop discussions. One of the materials that will

be provided is a graph of predicted natural flow. There was interest from SAMC members in providing a graph of managed flow instead as species do not experience non-managed flow.

Ondrea Hummel and Aubrey Harris offered to help facilitate the workshop.

The PST met with Valencia Soil & Water Conservation District (VSWCD), which manages Whitfield, as well as other conservation areas. Whitfield, along with surrounding areas, will be a focus of activities at the workshop. VSWCD will host a field trip to Whitfield ahead of the workshop, likely during the week of September 18<sup>th</sup> or 25<sup>th</sup>, 2023.

- **Action Item:** SAMC contact PST if you know of any major events that might conflict with the September field trip to Whitfield (most likely week of September 18)
- **Action Item:** PST incorporate SAMC suggestions into Climate Futures Planning Workshop materials regarding streamflow projections
- **Action Item:** SAMC register for the October 24-25 Climate Futures Planning Workshop if you are planning to attend
- **Action Item:** SAMC contact PST if you would like to help facilitate the Climate Futures Planning workshop
- **Action Item:** PST schedule the field trip to Whitfield for September

#### **New SAMC Meeting Format and Member Leadership**

The SAMC discussed the drawbacks of long meetings and agreed to shorter meetings. SAMC members will meet with the PST in between SAMC meetings to get work done and generate memos, etc.

SAMC members reviewed a list of topics in need of a SAMC lead and a schematic of relationships among topics. SAMC members volunteered to take lead on these topics.

- Mick Porter, Aubrey Harris, and Ara Winter are the SAMC leads on Rio Grande silvery minnow (RGSM) hypothesis development and model disambiguation.
- Ara Winter is the SAMC lead on information and data quality guidance for the MRGESCP.
- No SAMC lead was identified for adaptive management for river drying or development/refinement of conceptual models.

The following SAMC members were previously established as topic leads:

- Megan Friggens is the SAMC lead for climate futures planning.
  - Ondrea Hummel is the SAMC lead for the SER recovery wheel.
  - Meghan Conway is the SAMC lead for the restoration compendium.
  - Ari Posner and Dave Moore are SAMC leads for vegetated islands and bars deliverables.
  - Aubrey Harris is the SAMC lead for SAMC/FPC coordination and project evaluation.
- 
- **Action Item:** PST schedule interim coordination meetings with/for SAMC leads on specific topics
  - **Action Item:** SAMC meet with PST and SAMC co-leads to coordinate and prepare materials for November SAMC meeting

#### **Restoration Compendium and SER Recovery Wheel Ad Hoc Groups**

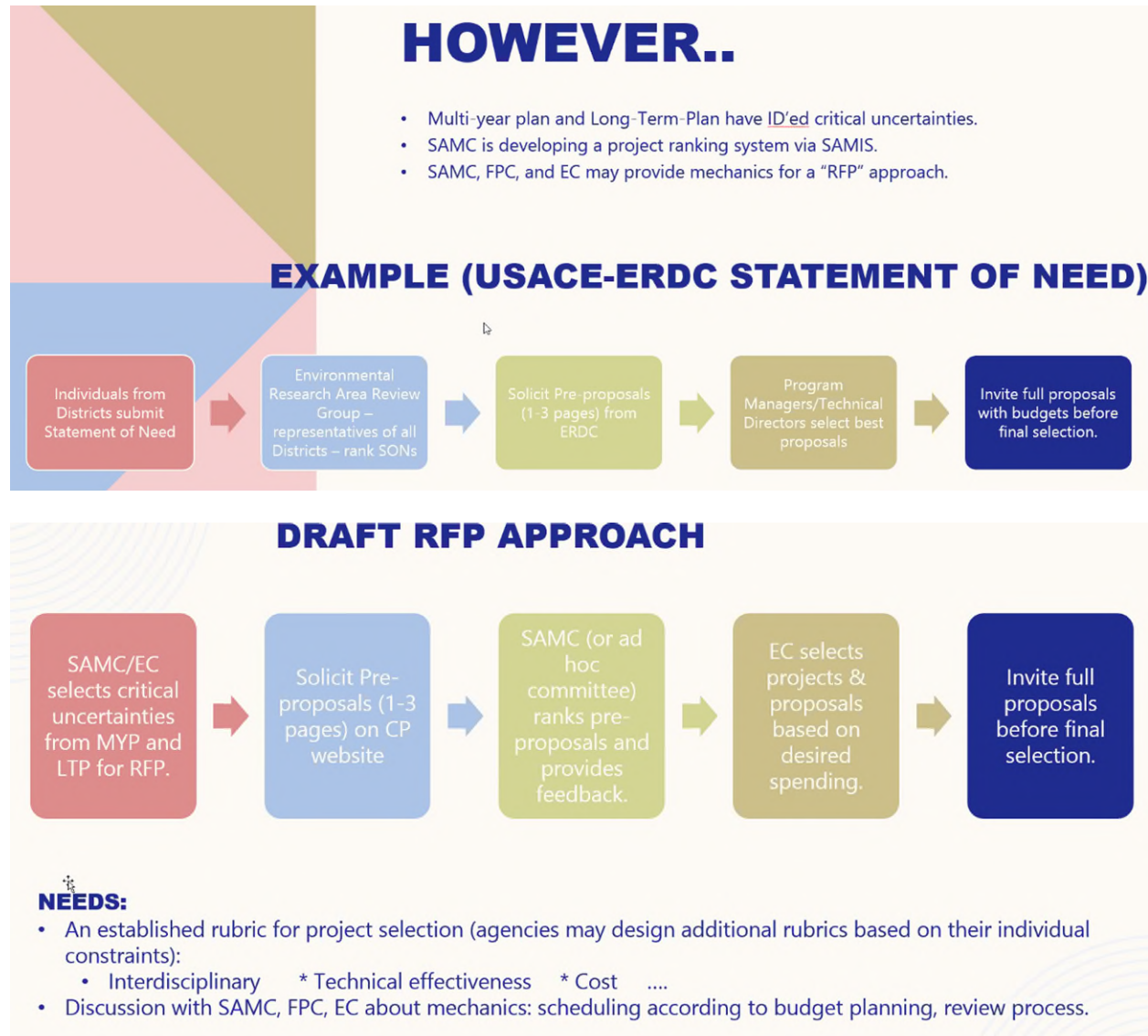
Meghan C. reviewed the restoration compendium and ad hoc group charge (see read-ahead). Aubrey H. reviewed the SER Recovery Wheel Ad Hoc Group charge (see read-ahead).

The SAMC discussed the member call for the Restoration Compendium & SER Recovery Wheel Ad Hoc Groups (see read-ahead). Ondrea H. recommended Gina Dello Russo as a member of the SER Recovery Wheel Ad Hoc Group if she is available.

- **Action Item:** SAMC contact PST with names of individuals who might be a good fit for the Restoration Compendium or SER Recovery Wheel Ad Hoc Groups
- **Action Item:** PST post call for membership on Restoration Compendium or SER Recovery Wheel Ad Hoc Groups

#### **Coordination with Fiscal Planning Committee**

The SAMC discussed coordination between the FPC and SAMC, including project selection and funding matching using the Funding Opportunities Matrix and Graphic. The group reviewed a proposed “RFP” approach for coordination between the groups (see figures below). The approach includes the FPC, EC, and SAMC and offers a more targeted process for selecting projects and proposals. The SAMC approved the proposed mode of communication with the FPC.



The SAMC also discussed the Long-Term Plan project evaluation process, which would be incorporated into the RFP approach to help the SAMC/EC select critical uncertainties. The SAMC was in favor of using this process as well.

**Management of Vegetated Islands and Bank-Attached Bars**

The SAMC reviewed a memo to the EC with recommendations for management of vegetated islands and bank-attached bars, which came out of the Management of Vegetated Islands and Bank-Attached Bars Workshop in 2022.

The first recommendation is to develop a glossary of relevant technical terms. Dave M. and Ari P. are taking the first review of the glossary. The second recommendation is to identify relevant data sets and data gaps. SAMC members were asked to send resources to the PST via email. Aubrey H. is working on a project on riverine island formation that would be relevant. There is interest in a seminar on the topic.

- **Action Item:** PST and Aubrey Harris follow up with potential speakers regarding a seminar on the Sustainable Rivers Program and environmental flows
- **Action Item:** SAMC provide PST with contacts and/or resources and data sets relevant to mapping or assessment of vegetated islands and bank-attached bars

### **Program Portal Data Updates**

The SAMC reviewed a list of data sets being updated on the Program Portal. The group discussed protocols for updating these data sets. There is a need for guidance on formatting the data sets for uploading them to the Program Portal mapper. The group agreed to ask the Information and Data Quality Standards Ad Hoc Group to provide that guidance.

- **Action Item:** PST and Ara Winter update Matt Wunder on the Information and Data Quality Ad Hoc Group tasks and SAMC request

### **Action Items, Next Steps, and Announcements**

- Upcoming events:
  - Habitat Restoration Coordination field trip: Aug. 22, 9 am – noon (Candelaria Nature Preserve and Aldo Leopold Burn Site)
  - Wagner seminar: Soil fungal community functional shifts following anthropogenic disturbances could negatively impact cottonwoods; Aug. 24, 10-11 am (Zoom)
  - Paklaian seminar: Post-Fire Flooding and Recovery in the Upper Arkansas River Basin; Aug. 29, 10-11 am (Zoom)
  - Whitfield field trip: September TBD
  - EC Meeting: Sept. 28, 1-4 pm (USFWS Office)
  - Climate Futures Planning Workshop: October 24-25, 2023; Pueblo of Santa Ana – Tamaya Wellness Center; registration closes Aug. 31

## Meeting Participants

### **SAMC Member**

### **Role**

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Alison Hutson	Aquatic Ecology Expert
Ara Winter	Statistics/Modeling Expert
Aubrey Harris	Hydrology Expert
Meaghan Conway	Ecosystem Function Expert
Megan Friggens	Climate Science Expert
Michael (Mick) Porter	Aquatic Ecology Expert
Ondrea Hummel	Watershed Resource Planning/Regulatory Expert
Ryan Gronewold	EC <i>ex-officio</i> /Hydrology Expert

### **Program Support Team**

### **Role**

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Catherine Murphy	SAMC Facilitator
Angela Medina	Support
Debbie Lee	Support
Zoë Rossman	Support

### **Guests**

### **Organization**

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Hira Walker	U.S. Army Corps of Engineers
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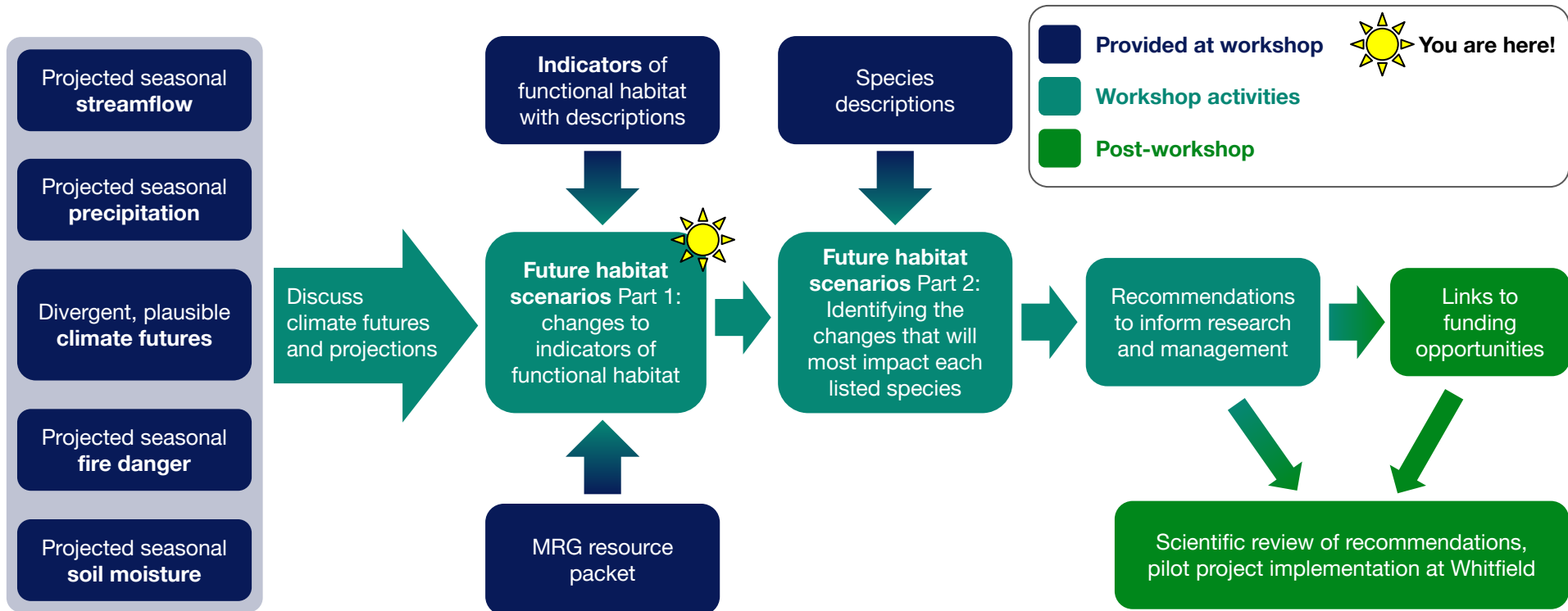
[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

Climate Futures Planning Workshop Schematic [read-ahead]





[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

List of Current Topics Needing SAMC Leads [read-ahead]

## **SAMC leadership of science efforts to inform adaptive management for the MRGESCP**

### **Topics with lead(s)**

- Climate futures planning — Megan Friggens
- Restoration monitoring guidance — Ondrea Hummel, Meaghan Conway
- Vegetated islands and bars deliverables — Dave Moore, Ari Posner
- SAMC/FPC coordination and project evaluation — Aubrey Harris

### **Topics in need of lead(s)**

- Adaptive management for river drying
- RGSM hypothesis development and model disambiguation
- Development/refinement of conceptual models
- Information & data quality guidance for the MRGESCP

[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

Schematic of Relationships Among Topics [read-ahead]

### Drying\*

- Questionnaire
- Summary report
- Decision tool

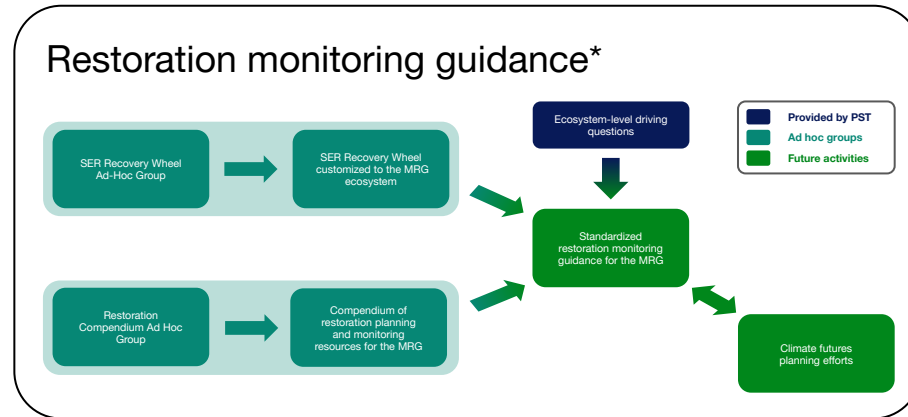
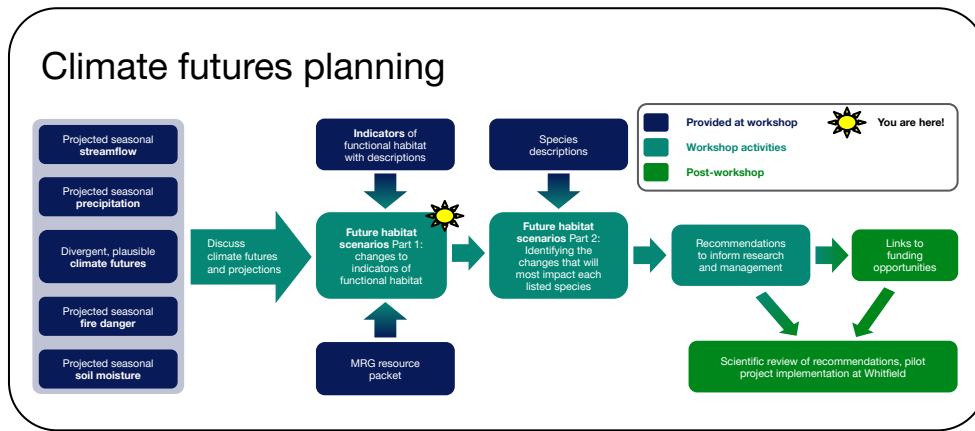
### RGSM\*

- Hypothesis development
- Model tool

### Conceptual models

- Single species
- Vegetated islands & bars
- Ecosystem

**Vegetated islands and bars deliverables**  
(glossary, etc...)



\* denotes ad hoc group(s)

### Information and data quality\*

- Data quality template
- Data format guidance

### Portal

- Datasets/map

### FPC Coordination

- Funding opportunities

### SAMIS

- Projects/linkages
- Findings

[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

Final Restoration Compendium Ad Hoc Charge [read-ahead]

**Middle Rio Grande Endangered Species Collaborative Program (MRGESCP)**  
**Science & Technical (S&T) Ad Hoc Group Charge**  
***Restoration Resources Compendium Ad Hoc***

**Parent Committee**

Science and Adaptive Management Committee

**Ad Hoc Group Charge**

Create a compendium of habitat/ecosystem restoration projects and resources within the Middle Rio Grande (MRG) Basin. The compendium should include project metadata (e.g., project location, lead agency, date range), as well as objectives, target species, monitoring plans, adaptive management plans, and reports associated with each project, when available. In addition, the compendium should also contain a list of resources that can inform restoration planning, adaptive management, and monitoring in the MRG.

**Membership**

**A. *Criteria for membership***

- Experience with planning, designing, implementing, monitoring and/or adaptively managing restoration projects in the MRG.
- Knowledge about habitat restoration goals, monitoring protocols and metrics, and maintenance and adaptive management needs in the MRG.

**B. *Members (Nominees)***

\_\_\_\_\_ (Lead),  
\_\_\_\_\_ (Member),  
\_\_\_\_\_ (Member),  
\_\_\_\_\_ (Member),  
\_\_\_\_\_ (Member),

...

**Iterative Task Development**

**Background**

In February 2023, the SAMC requested a compilation of information about restoration efforts in the MRG to help inform future and ongoing restoration projects within the basin. The purpose of this “compendium” is to provide restoration practitioners with a set of resources to aid in the design and monitoring of restoration projects in the MRG, as well as details about current and past MRG restoration projects. This compendium, combined with 1) the development of a tool to track restoration success at the ecosystem level (the Society for Ecological Restoration recovery wheel), and 2) clear ecosystem-level driving questions, will guide the formation of a standardized monitoring approach for the MRG (Figure 1).

The Program Support Team (PST) began drafting the compendium in March 2023, and included current and past restoration projects in the MRG, as well as a list of resources relevant to restoration planning and monitoring in the MRG. Using the list of projects, the PST identified common restoration goals (i.e., habitat restoration, fire fuel reduction, management of hydrology/geomorphology) and restoration targets (e.g., listed species, native

and non-native vegetation) for the MRG. Restoration targets were cross-referenced with projects and resources so that restoration practitioners can easily locate guidance and resources that relate to their desired target.

The primary objectives of this ad hoc group are to refine and further develop the draft compendium and to ensure that it is useful and relevant for restoration practitioners in the MRG. The final deliverable, the revised compendium, will support restoration throughout the MRG, and will also be used to inform the creation of standardized monitoring guidance for the MRG.

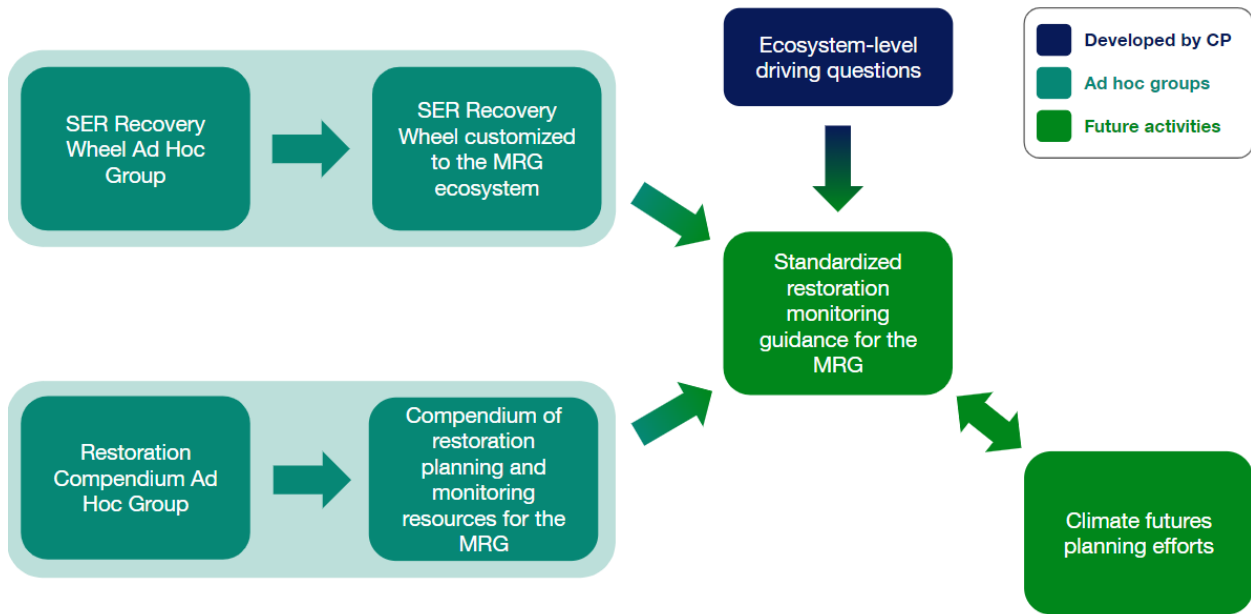


Figure 1. Outcomes of this ad hoc group will be combined with a Recovery Wheel customized to the MRG and ecosystem-level driving questions to inform the creation of standardized restoration monitoring guidance and other efforts within the MRG.



**The SAMC requests that you review the draft tasks, deliverables and schedule below and provide feedback and questions to begin the iterative process of task development.**

**Tasks and Deliverables**

Step	Objective	Task	Deliverable
<b>PST presentation to ad hoc group – Overview of draft compendium</b>			
1.	<b>Become familiar with the draft compendium, the process documentation, and the decision tree</b>	<ul style="list-style-type: none"> <li>Review the draft compendium created by the PST, as well as the documentation about its development.</li> <li>Review the associated decision tree and determine if the structure of the compendium is appropriate for use by restoration practitioners.</li> </ul>	Provide suggestions for improving the structure of the compendium, if needed.
2.	<b>Edit project list</b>	<ul style="list-style-type: none"> <li>Edit the list of past and current restoration projects in the MRG.</li> <li>Add additional projects, any follow-up monitoring or reports, and identify the goals and targets for each project.</li> </ul>	A revised list of completed and active restoration projects in the MRG.
3.	<b>Review list of goals and targets</b>	<ul style="list-style-type: none"> <li>Review and refine the list of restoration goals and targets identified from the project list.</li> </ul>	A revised list of goals and targets for restoration practices in the MRG.
4.	<b>Edit resources list</b>	<ul style="list-style-type: none"> <li>Using the list of targets from Step 3, identify additional resources for restoration planning and monitoring and relate to one or more restoration targets within the MRG.</li> </ul>	A revised list of restoration resources customized to the MRG.
<b>Check-in with SAMC – Summarize progress, issues and findings</b>			
5.	<b>Recommend next steps</b>	<ul style="list-style-type: none"> <li>Using the lessons learned from Steps 2-4, provide recommendations for using the compendium to inform the creation of standardized monitoring guidance for the MRG.</li> </ul>	A brief outline containing lessons learned and any recommendations for future use of the compendium.

### Timeline and Reporting Scheduling

Task	Subtask	Deliverable	To Be Completed By
Step 1	Review compendium	Suggestions for improving the structure of the compendium, if necessary.	Time to complete: 1 meeting + 1 week
Step 2	Complete project list	A complete list of completed and active restoration projects in the MRG.	Time to complete: ~4 weeks
Step 3	Review list of goals and targets	A complete list of goals and targets for common restoration practices in the MRG.	Time to complete: 1 meeting + 1 week
Step 4	Complete resource list	A list of restoration resources customized to the MRG.	Time to complete: ~4 weeks
Step 5	Recommendations and lessons learned; presentation to SAMC	An outline documenting the process used to complete the compendium, lessons learned, and any recommendations for future groups.	Time to complete: ~2 weeks
		Collaborative Program seminar	TBD

[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

Final SER Recovery Wheel Ad Hoc Charge [read-ahead]

**Middle Rio Grande Endangered Species Collaborative Program (MRGESCP)**  
**Science & Technical (S&T) Ad Hoc Group Charge**  
***Society for Ecological Restoration Recovery Wheel Ad Hoc***

**Parent Committee**

Science and Adaptive Management Committee

**Ad Hoc Group Charge**

Develop an ecosystem-level restoration assessment tool based on the Society for Ecological Restoration’s (SER) Ecological Recovery Wheel, which visually represents recovery of a target ecosystem compared to a selected reference ecosystem using a 5-star rating scale across a set of attributes. The Recovery Wheel should be customized to the Middle Rio Grande (MRG) river-floodplain ecosystem. The process used to develop this tool should be fully documented to facilitate use and future updates to the wheel.

**Membership**

**A. *Criteria for membership***

- Knowledge of the structure, function, and spatio-temporal dynamics of the Middle Rio Grande river-floodplain ecosystem;
- Understanding of planning, design, implementation, monitoring, and maintenance practices for ecological restoration in the MRG.

**B. *Members (Nominees)***

- \_\_\_\_\_ (Lead),
- \_\_\_\_\_ (Member),
- \_\_\_\_\_ (Member),
- \_\_\_\_\_ (Member),
- \_\_\_\_\_ (Member),
- ...

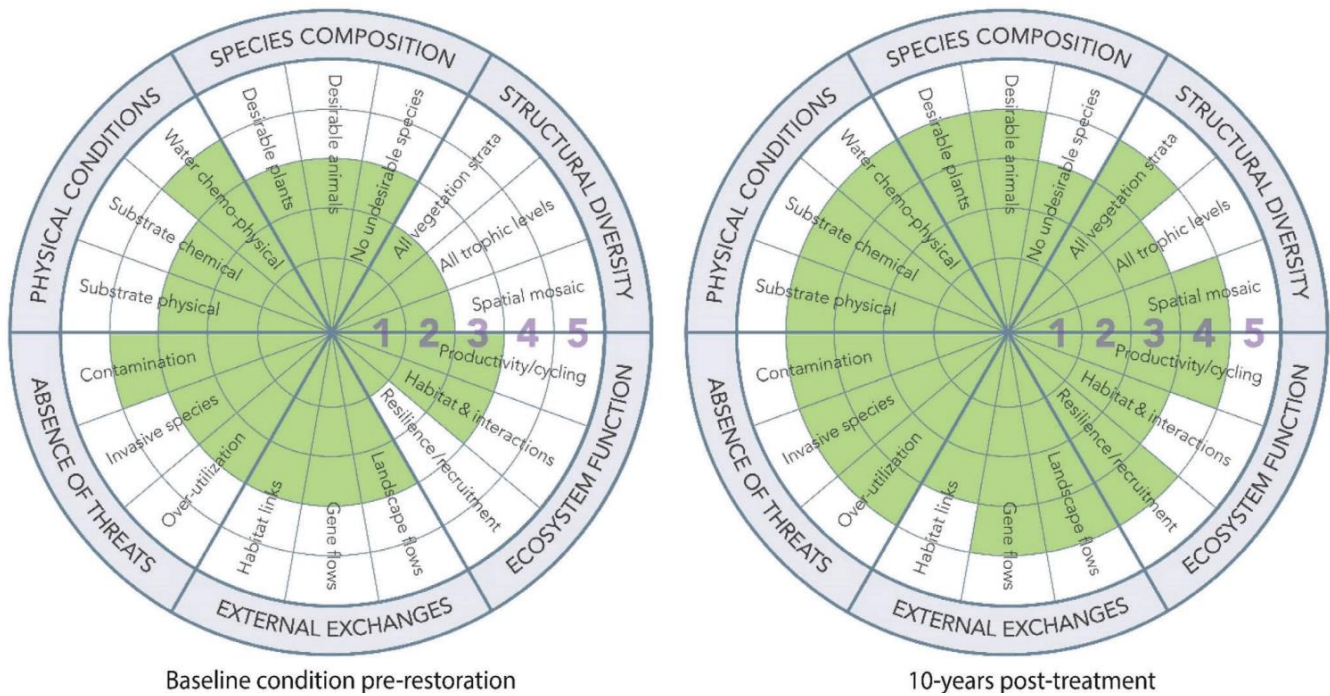
**Iterative Task Development**

**Background**

In February 2023 the SAMC identified the Society for Ecological Restoration’s (SER) Ecological Recovery Wheel (Figure 1) as an appropriate and useful tool to assess the success of restoration efforts at the *ecosystem level* in the MRG. The development of this tool, combined with additional restoration monitoring resources and ecosystem-level driving questions, will support an end goal of developing standardized monitoring guidance for the MRG (Figure 2). The Recovery Wheel is part of a set of ecological restoration standards launched in 2016 by SER (McDonald et al. 2016). These standards have been vetted by the international restoration community and applied to a wide variety of restoration work since their inception. While restoration efforts in the MRG are often implemented at the species-specific habitat level, use of the Recovery Wheel tool can place habitat-level projects within the context of ecosystem-scale recovery. This context will help to identify additional benefits that potentially result from restoration projects. The Recovery Wheel is a customizable tool, in which sub-attributes can be modified to suit the MRG ecosystem, and ratings (1-5 stars) represent a scale of progress towards full recovery for each sub-attribute. Over the life of a project, the Recovery Wheel serves as a valuable visual aid for demonstrating progress toward the restoration goals (along individual sub-attributes), as well as helping practitioners determine whether (and when) intervention/maintenance is warranted.

The primary objective of this ad hoc group is to customize the SER Recovery Wheel tool to the MRG ecosystem by: 1) selecting an appropriate reference ecosystem; 2) reviewing attributes (see Table 1) and identifying desired sub-attributes for the MRG; and 3) assigning appropriate levels (see Table 2) to each sub-attribute. Sub-attributes within each attribute should reflect aspects of the MRG ecosystem that are relevant to management of listed species and associated ecological structure and function. Selection of metrics used to quantify sub-attributes should take into account not only the responsiveness of the variable to both management actions and climate change, but also the cost, effort, and feasibility of collecting the data.

The final deliverable (i.e., customized wheel) of this ad hoc group can be subsequently modified through adaptive management and informed by climate futures planning.



**Figure 1.** “The ecological recovery wheel is a tool for conveying progress of recovery of ecosystem attributes compared to those of a reference model. In this example, the first wheel represents the condition of each attribute assessed during the baseline inventory stage of the project. The second wheel depicts a 10-year-old restoration project, where over half its attributes have attained a four-star condition. Practitioners familiar with the project goals, objectives, site-specific indicators, and recovery levels achieved to date can shade the segments for each sub-attribute after formal or informal evaluation. Sub-attribute labels can be added or modified to best represent a particular project. For symmetry of design, three sub-attributes are used in this example, but there may be more, or fewer, needed depending on the project.” (Gann et al. 2019)

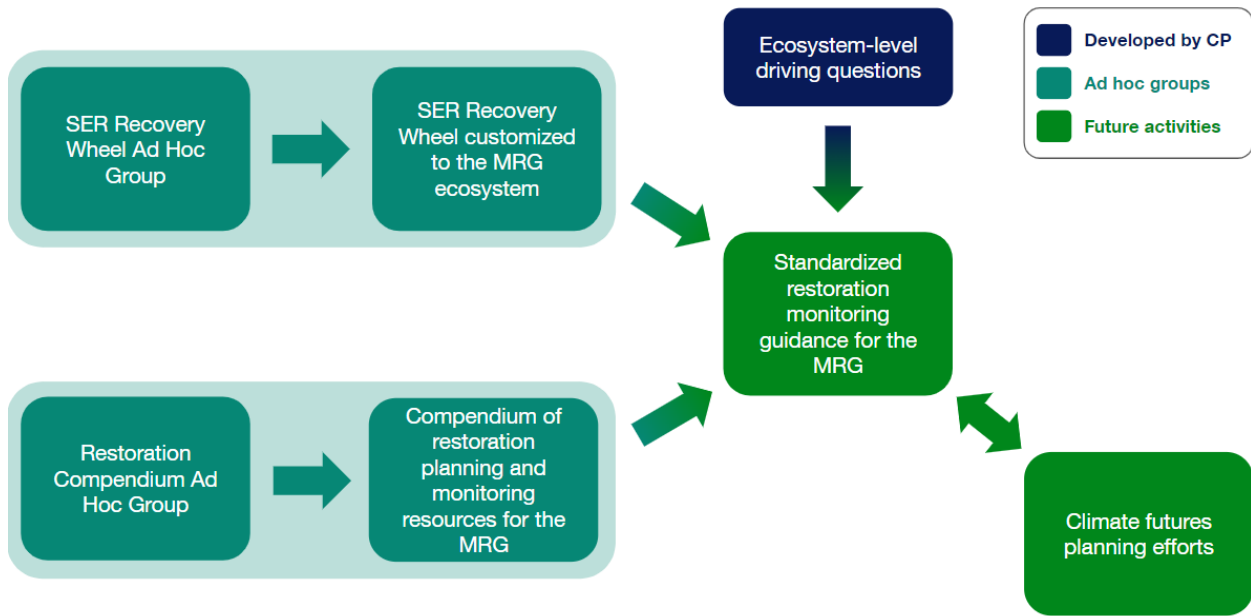


Figure 2. Outcomes of this ad hoc group will be combined with restoration monitoring resources and ecosystem-level driving questions to inform the creation of standardized restoration monitoring guidance and other efforts within the MRG.

Table 1. “Description of the key ecosystem attributes used to characterize the reference ecosystem, as well as to evaluate baseline condition, set project goals, and monitor degree of recovery at a restoration site.” (Gann et al. 2019)

Attribute	Description
Absence of threats	Direct threats to the ecosystem such as overutilization, contamination, or invasive species are absent
Physical conditions	Environmental conditions (including the physical and chemical conditions of soil and water, and topography) required to sustain the target ecosystem are present
Species composition	Native species characteristic of the appropriate reference ecosystem are present, whereas undesirable species are absent
Structural diversity	Appropriate diversity of key structural components, including demographic stages, trophic levels, vegetation strata and spatial habitat diversity are present
Ecosystem function	Appropriate levels of growth and productivity, nutrient cycling, decomposition, species interactions, and rates of disturbance
External exchanges	The ecosystem is appropriately integrated into its larger landscape or aquatic context through abiotic and biotic flows and exchanges

**Table 2.** “Sample one- to five-star recovery scale interpreted in the context of the six key ecosystem attributes used to measure progress along a trajectory of recovery. This five-star scale represents a gradient from very low to very high similarity to the reference model. As a generic framework, users must develop indicators and monitoring metrics specific to the ecosystem and sub-attributes they identify.” (Gann et al. 2019)

Attribute	★	★★	★★★	★★★★	★★★★★
Absence of threats	Further deterioration discontinued, and site has tenure and management secured	Threats from adjacent areas beginning to be managed or mitigated	All adjacent threats managed or mitigated to a low extent	All adjacent threats managed or mitigated to an intermediate extent	All threats managed or mitigated to high extent
Physical conditions	Gross physical and chemical problems remediated (e.g. excess nitrogen, altered pH, high salinity, contamination or other damage to soil or water)	Substrate chemical and physical properties on track to stabilize within range of reference ecosystem	Substrate stabilized within range of reference ecosystem and supporting growth of characteristic native biota	Substrate securely maintaining conditions suitable for ongoing growth and recruitment of characteristic native biota	Substrate exhibiting physical and chemical characteristics highly similar to that of the reference ecosystem with evidence they can indefinitely sustain species and processes
Species composition	Some colonizing native species present (e.g. ~2% of species in the reference ecosystem). Moderate onsite threat from nonnative invasive or undesirable species. Regeneration niches available	A small subset of characteristic native species establishing (e.g. ~10% of reference). Low to moderate onsite threat from nonnative invasive or undesirable species	A subset of key native species (e.g. ~25% of reference) establishing over substantial proportions of the site. Very low onsite threat from nonnative invasive or undesirable species	Substantial diversity of characteristic native biota (e.g. ~60% of reference) present across the site and representing a wide diversity of species groups. Very low onsite threat from nonnative invasive or undesirable species	High diversity of characteristic native species present (e.g. >80% of reference), with high similarity to the reference ecosystem; improved potential for colonization of more native species over time. No known onsite threat from undesirable species
Structural diversity	One or fewer biological strata present and no spatial patterning or community trophic complexity relative to reference ecosystem	More strata present but low spatial patterning and trophic complexity, relative to reference ecosystem	Most strata present and some spatial patterning and trophic complexity relative to reference site	All strata present. Spatial patterning evident and substantial trophic complexity developing relative to the reference ecosystem	All strata present and spatial patterning and trophic complexity high. Further complexity and spatial patterning able to self-organize to highly resemble reference ecosystem
Ecosystem function	Substrates and hydrology are at a foundational stage only, capable of future development of functions similar to the reference	Substrates and hydrology show increased potential for a wider range of functions including nutrient cycling, and provision of habitats and resources for other species	Evidence of functions commencing (e.g. nutrient cycling, water filtration, and provision of habitat and resources for a range of species)	Substantial evidence of key functions and processes commencing including reproduction, dispersal, and recruitment of native species	Considerable evidence of functions and processes on a secure trajectory toward that of the reference and evidence of ecosystem resilience, tested by reinstatement of appropriate disturbance regimes
External exchanges	Potential for exchanges (e.g. of species, genes, water, fire) with surrounding landscape or aquatic environment identified	Connectivity for enhanced positive (and minimized negative) exchanges arranged through cooperation with stakeholders. Linkages being reinstated	Positive exchanges between site and external environment becoming evident (e.g. more species, gene flows, etc.)	High level of positive exchanges with other native ecosystems established; control of undesirable species and disturbances	Evidence that external exchanges are highly similar to reference, and long-term integrated management arrangements with broader landscape in place and operative

**The SAMC requests that you review the draft tasks, deliverables and schedule below and provide feedback and questions to begin the iterative process of task development. Tasks and Deliverables**

Step	Objective	Task	Deliverable
1.	<b>Become familiar with SER 5-Star Recovery Wheel tool</b>	Review literature on SER Recovery Wheel (Figure 1) <ul style="list-style-type: none"> <li>• Primary Attributes</li> <li>• Sub-attributes</li> <li>• 5-star Recovery Levels</li> <li>• Customization process</li> </ul>	N/A
2.	<b>Designate a reference ecosystem</b>	Determine an appropriate reference state for comparison based on desired restoration goals for the MRG, including the scale at which this should take place.	A description of the designated reference ecosystem with a justification of choices based either on scientific literature or expert opinion when appropriate. Please cite sources.
3.	<b>Customize sub-attributes for the MRG</b>	Define relevant sub-attributes for the MRG ecosystem. See Table 1 and Figure 3 for descriptions and examples.	A recovery wheel customized to the structure and function of the MRG ecosystem. Please cite sources, where appropriate, and provide rationale.
<b>Interim Peer Review 1: attributes and sub-attributes</b>			
4.	<b>Customize the sub-attribute recovery levels for the MRG</b>	Using the customized wheel from Task 3, determine the appropriate recovery levels for each sub-attribute. Consider the question of when/if to maintain or intervene at a restoration site. See Table 2 for an example of how to define levels.	A recovery wheel for the MRG, including sub-attribute levels that inform decisions about site condition and maintenance/ intervention. Please cite sources, where appropriate, and provide rationale.
<b>Interim Peer Review 2: levels and thresholds</b>			
<b>Check-in with SAMC – Summarize progress, issues and findings</b>			
5.	<b>Recommend next steps</b>	Using the lessons learned from Steps 2-4, provide recommendations regarding application of the Recovery Wheel to different habitat types within the MRG ecosystem.	An outline documenting the process used to develop a Recovery Wheel customized to the MRG and identifying any lessons learned during the task with recommendations for application and improvement of this tool.



## Timeline and Reporting Scheduling

Task	Subtask	Deliverable	To Be Completed By
Step 1	Familiarize with tool	N/A	TBD
Step 2	Design reference ecosystem	A summary of the reference ecosystem constructed with a justification of choices based either on scientific literature or expert opinion when appropriate. Please cite sources.	Time to complete: ~4 weeks
Step 3	Select sub-attributes; Peer Review 1	A recovery wheel customized to the structure and function of the MRG. Please cite sources, where appropriate, and provide rationale.	Time to complete: ~4 weeks (additional 2 weeks for Peer Review)
Step 4	Define sub-attribute recovery levels; Peer Review 2; Check-in with SAMC	A recovery wheel for the MRG, including sub-attribute levels that inform decisions about site condition and maintenance/intervention. Please cite sources, where appropriate, and provide rationale.	Time to complete: ~4 weeks (additional 2 weeks for Peer Review)
Step 5	Recommendations and lessons learned; Presentation to SAMC	An outline documenting the process used to develop a Recovery Wheel customized to the MRG and identifying any lessons learned during the task with recommendations for application and improvement of this tool.	Time to complete: ~2 weeks
		Collaborative Program seminar	TBD

## Footnotes

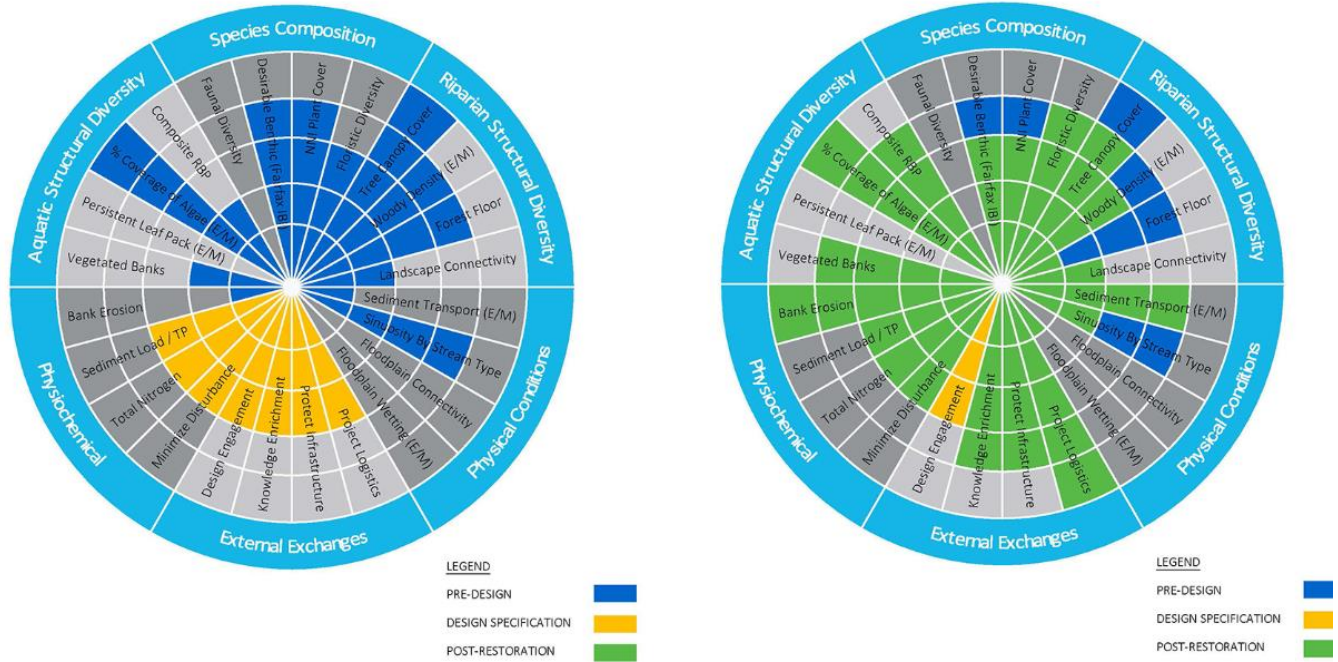
1. *“While every restoration practitioner strives to place his/her site on a secure trajectory to full ecosystem recovery relative to an appropriate reference system, full recovery can often be slow or unrealistic in the short-term. In these cases, and for all restoration projects, practitioners are encouraged to aim and monitor for continuous improvement toward ecosystem recovery... The 5-Star Recovery System tool utilizes a 5-star scale that represents a cumulative gradient from very low to very high similarity to a reference ecosystem. A restoration site can be assigned to one of the five recovery levels (1 to 5 stars) in an overall assessment; or, different ecosystem attributes can be individually assigned recovery levels based on available monitoring data, which provides a more detailed overview of recovery progress, and accounts for the fact that different attributes may have varying rates of recovery. The Recovery Wheel (Figure 1) provides a visual way in which to communicate ecological recovery progress using the 5-star system, and can be shaded in as various sub-attributes of the site achieve greater recovery over time.”*  
(<https://www.ser.org/page/SERNews3113>)
2. The SER Recovery Wheel was modified and applied to Flatlick Stream (Department of Public Works and Environmental Services, Fairfax County, Virginia), where they created pre-restoration and post-restoration Recovery Wheels for a stream ecosystem (Figure 3). The attributes, sub-attributes, and

levels may be applicable to some MRG ecosystems. More information can be found at the following links:

[https://d18lev1ok5leia.cloudfront.net/chesapeakebay/documents/fairfax\\_county\\_restoration\\_recovery\\_wheel.pdf](https://d18lev1ok5leia.cloudfront.net/chesapeakebay/documents/fairfax_county_restoration_recovery_wheel.pdf)

FLATLICK 2 (PRE)

FLATLICK 2 (POST-3 YEARS)



<https://www.fairfaxcounty.gov/publicworks/stormwater/plans-projects/fairfax-recovery-wheel>

**Figure 2.** "Recovery Wheels for the Flatlick II stream restoration, with both a pre-restoration condition and the condition as assessed 3-years post restoration." <https://www.fairfaxcounty.gov/publicworks/stormwater/plans-projects/fairfax-recovery-wheel>

## References

"Fairfax Recovery Wheel." Fairfax County, <https://www.fairfaxcounty.gov/publicworks/stormwater/plans-projects/fairfax-recovery-wheel>. Accessed 14 March 2023.

Gann, G.D., T. McDonald, B. Walder, J. Aronson, C.R. Nelson, J. Jonson, J.G. Hallett, C. Eisenberg, M.R. Guariguata, J. Liu, F. Hua, C. Echeverría, E. Gonzales, N. Shaw, K. Decler and K.W. Dixon. 2019. International principles and standards for the practice of ecological restoration. Second edition. *Restoration Ecology*, 27: S1-S46. <https://doi.org/10.1111/rec.13035>

McDonald, T., G.D. Gann, J. Jonson, and K.W. Dixon. 2016. International standards for the practice of ecological restoration – including principles and key concepts. First Edition. Society for Ecological Restoration, Washington, D.C.

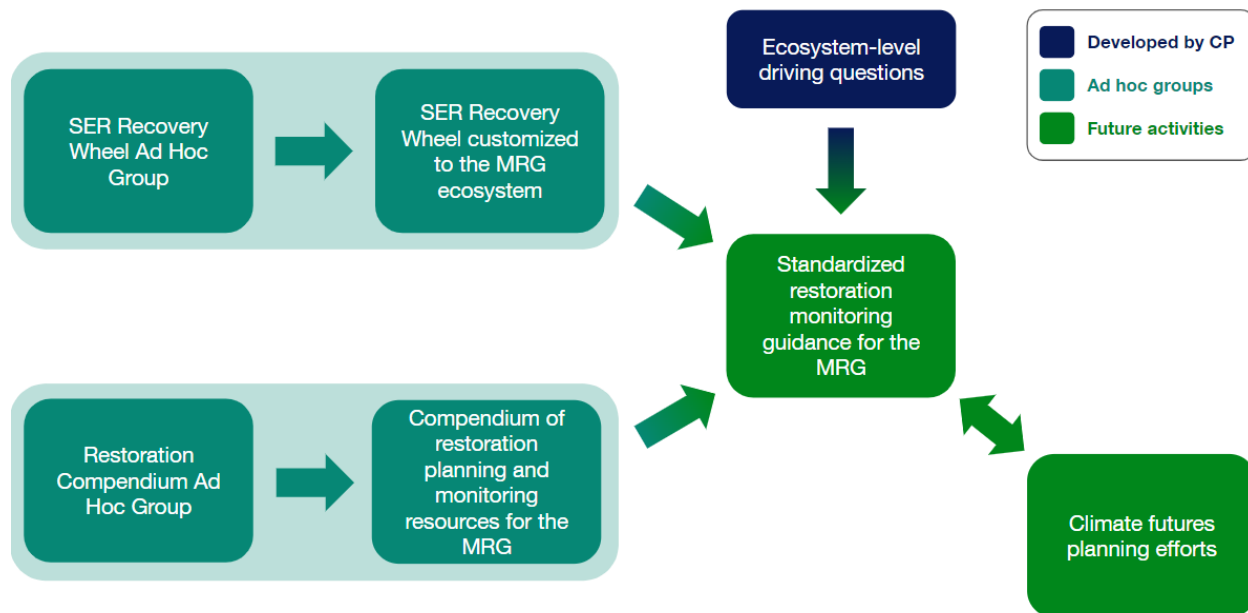
McDonald, T., J. Jonson and K.W. Dixon. 2016. National standards for the practice of ecological restoration in Australia. *Restoration Ecology*, 24: S4-S32. <https://doi.org/10.1111/rec.12359>

[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

Member Call for Restoration Compendium & SER Recovery Wheel Ad Hoc Groups [read-ahead]



## Call for Ad Hoc Group Members

The **SER Recovery Wheel Ad Hoc Group** and the **Restoration Compendium Ad Hoc Group** will run concurrently. Although these groups have distinct charges and goals, they will inform each other. The Restoration Compendium will compile and organize existing restoration and monitoring resources at the project level, while the SER Recovery Wheel will establish ecosystem-level attributes to target for restoration. Together, these two groups will help inform standardized restoration monitoring guidance for the Middle Rio Grande (MRG) Basin. Please review the information for each group below to help you decide which group most aligns with your expertise.

### Restoration Compendium Ad Hoc Group Charge:

Create a compendium of habitat/ecosystem restoration projects and resources within the MRG Basin. The compendium should include project metadata (e.g., project location, lead agency, date range), as well as objectives, target species, monitoring plans, adaptive management plans, and reports associated with each project, when available. In addition, the compendium should also contain a list of resources that can inform restoration planning, adaptive management, and monitoring in the MRG.

### Please consider joining the Restoration Compendium Ad Hoc Group if:

- You have experience planning, designing, implementing, monitoring and/or adaptively managing restoration projects in the MRG.
- You have developed restoration goals, monitoring protocols and metrics, and assessed maintenance needs in the MRG.

- You have managed current and past restoration projects in the MRG.

**SER Recovery Wheel Ad Hoc Group Charge:**

Develop an ecosystem-level restoration assessment tool based on the Society for Ecological Restoration's (SER) Ecological Recovery Wheel, which visually represents recovery of a target ecosystem compared to a selected reference ecosystem using a 5-star rating scale across a set of attributes. The Recovery Wheel should be customized to the MRG river-floodplain ecosystem. The process used to develop this tool should be fully documented to facilitate use and future updates to the SER Ecological Recovery Wheel.

**Please consider joining the SER Recovery Wheel Ad Hoc Group if:**

- You possess knowledge of the structure, function, and spatio-temporal dynamics of the Middle Rio Grande river-floodplain ecosystem.
- You are familiar with the planning, design, implementation, monitoring, and maintenance practices for ecological restoration in the MRG.
- You work on ecosystem-level restoration projects or address ecosystem-level questions within the MRG.

Please contact [cmurphy@west-inc.com](mailto:cmurphy@west-inc.com) or [zrossman@west-inc.com](mailto:zrossman@west-inc.com) to volunteer for either group, or if you have any questions regarding which group to volunteer for. If your experience aligns with both groups and you have no preference, please let us know and we will place you in the group that would most benefit from your expertise. **When you contact us to volunteer, please note if you'd like to volunteer as a group member, as a reviewer, or both.**

[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
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*See the following meeting material on the page below:*

Funding Opportunities Matrix [read-ahead, spreadsheet]



















[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
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*See the following meeting material on the page below:*

Funding Opportunities Graphic [read-ahead]



# FUNDING OPPORTUNITIES GRAPHIC

KEY	Funding Emphasis	Eligible Recipients	★	Highly collaborative	⊕	Cost Share
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	Academic Institution	Business (for profit)	Individual	Local Government	Non-profit	State	Territory	Tribal Government
Climate Resilience /Adaptation	EJSG★, GTA, NFWF★⊕, WS-AS⊕	EQIP	EQIP, GTA	BRIC⊕, BRIC-DTA, CDBG, CFG⊕, DWSIRS⊕, EJG2G★, GTA, NFWF★⊕, REPI⊕, UCFP⊕, LSWRP⊕	CFG⊕, EJCPS★, EJG2G★, EISG★, EQIP, GTA, NFWF★⊕, REPI⊕, UCFP⊕, WS-AS⊕, WGF	BRIC⊕, CDBG, DWSIRS⊕, GTA, NFWF★⊕, PAS⊕, REPI⊕, WS-AS⊕, LSWRP⊕	BRIC⊕, CFG⊕, EJG2G★, GTA, NFWF★⊕, PAS⊕, UCFP⊕	BRIC⊕, BRIC-DTA, CFG⊕, DWSIRS⊕, EJG2G★, EISG★, EQIP, GTA, NFWF★⊕, PAS⊕, REPI⊕, TCRG, UCFP⊕, WS-AS⊕, LSWRP⊕
Disaster Recovery	ECWA	CDBG-DR, HMGP⊕	CDBG-DR, ECP⊕, EFRP⊕, HMGP⊕	BRIC-DTA, CDBG-DR, CDBG-MIT, EJG2G★, EWP⊕, HMGP⊕, STRLF⊕, ECWA	CDBG-DR, EJCPS★, EJG2G★, HMGP⊕, ECWA	CDBG-DR, CDBG-MIT, EJG2G★, EWP⊕, HMGP⊕, PAS⊕, STRLF⊕, WS-DERA, ECWA	CDBG-MIT, EJG2G★, HMGP⊕, PAS⊕, STRLF⊕	BRIC-DTA, CDBG-MIT, EJG2G★, EWP⊕, HMGP⊕, PAS⊕, STRLF⊕, WS-DERA, ECWA
Drought Resilience	WS-AS⊕	HMGP⊕	HMGP⊕	CFG⊕, DWSRF⊕, HMGP⊕, UCFP⊕, WS-CWM★⊕, WS-DCP⊕, WS-EWRP⊕, LSWRP⊕	CFG⊕, HMGP⊕, UCFP⊕, WS-AS⊕, WS-CWM★⊕, WS-DCP⊕, WS-DRP⊕, WS-EWRP⊕, WS-SSWEP⊕, WS-WEE⊕, WS-WMS⊕, WGF	DWSRF⊕, HMGP⊕, WS-AS⊕, WS-CWM★⊕, WS-DCP⊕, WS-DERA, WS-DRP⊕, WS-EWRP⊕, WS-SSWEP⊕, WS-WEE⊕, WS-WMS⊕, LSWRP⊕	CFG⊕, HMGP⊕, UCFP⊕, WS-CWM★⊕	CFG⊕, DWSRF⊕, HMGP⊕, UCFP⊕, WS-AS⊕, WS-CWM★⊕, WS-DCP⊕, WS-DERA, WS-DRP⊕, WS-EWRP⊕, WS-SSWEP⊕, WS-WEE⊕, WS-WMS⊕, LSWRP⊕
Flood/Storm Risk Reduction	WPD⊕	FMA⊕, HMGP⊕, RSP★	FMA⊕, HMGP⊕	EJG2G★, EWP⊕, FMA⊕, FPMS⊕, HMGP⊕, SFRM⊕, WFPO⊕, WPD⊕, WS-CWM★⊕, REDC, PMREF⊕, WTB⊕, RSP★	EJG2G★, FMA⊕, HMGP⊕, SFRM⊕, WPD⊕, WS-CWM★⊕, REDC, PMREF⊕, RSP★	EJG2G★, EWP⊕, FMA⊕, FPMS⊕, HMGP⊕, PAS⊕, SFRM⊕, WPD⊕, WS-CWM★⊕, REDC, PMREF⊕, WTB⊕, RSP★	EJG2G★, FMA⊕, FPMS⊕, HMGP⊕, PAS⊕, SFRM⊕, WS-CWM★⊕, REDC, PMREF⊕	EJG2G★, EWP⊕, FMA⊕, FPMS⊕, HMGP⊕, PAS⊕, SFRM⊕, WFPO⊕, WPD⊕, WS-CWM★⊕, REDC, PMREF⊕, WTB⊕, RSP★
Pollution Remediation	319⊕, EJSG★, EJTCGM, P2-EJC, P2-EJSSP	319⊕	319⊕	319⊕, EJG2G★, BCG⊕, BMG⊕, BRLE, RIDF, SWFGE	319⊕, EJSG★, EJTCGM, EJCPS★, EJG2G★, BCG⊕, BMG⊕, BRLE	319⊕, P2-EJC, P2-EJSSP, EJG2G★, BAG⊕, BCG⊕, BMG⊕, BRLE	319⊕, EJG2G★, BCG⊕, BMG⊕, BRLE, P2-EJC, P2-EJSSP	319⊕, EJSG★, EJTCGM, P2-EJC, P2-EJSSP, EJG2G★, BAG⊕, BCG⊕, BMG⊕, BRLE, RIDF
Habitat/Ecosystem Restoration	319⊕, 5S★⊕, EJSG★, GTA, NFWF★⊕, RCPP⊕, SURP, WPD⊕	319⊕, EQIP, NAWCA⊕, RCPP⊕, SURP, RSP★	319⊕, EFRP⊕, EQIP, GTA, NAWCA⊕, SURP, WRE⊕	319⊕, 5S★⊕, AER⊕, BCG⊕, BMG⊕, BRIC⊕, BRLE, CFG⊕, CWSRF⊕, EI⊕, GTA, IPPG⊕, LWCF⊕, NCRRR⊕, NFWF★⊕, PMIE⊕, RCPP⊕, REPI⊕, SURP, UCFP⊕, WCPPI⊕, WPD⊕, WRE⊕, WS-AERP★⊕, WS-CWM★⊕, WS-EWRP⊕, WTB⊕, RSP★	319⊕, 5S★⊕, AER⊕, BCG⊕, BMG⊕, BRLE, CFG⊕, EI⊕, EJSG★, EQIP, GTA, NAWCA⊕, NFWF★⊕, PMIE⊕, RCPP⊕, REPI⊕, SURP, UCFP⊕, WPD⊕, WRE⊕, WS-AERP★⊕, WS-CWM★⊕, WS-EWRP⊕, RSP★	319⊕, 5S★⊕, AER⊕, BAG⊕, BCG⊕, BMG⊕, BRIC⊕, BRLE, CWSRF⊕, EI⊕, GTA, IPPG⊕, LWCF⊕, NCRRR⊕, NFWF★⊕, PAS⊕, PMIE⊕, RCPP⊕, REPI⊕, SURP, SWG⊕, WCPPI⊕, WPD⊕, WRE⊕, WS-AERP★⊕, WS-CWM★⊕, WS-EWRP⊕, WTB⊕, RSP★	319⊕, AER⊕, BCG⊕, BMG⊕, BRIC⊕, BRLE, CFG⊕, EI⊕, GTA, LWCF⊕, NFWF★⊕; PAS⊕, PMIE⊕, RCPP⊕, SURP, SWG⊕, UCFP⊕, WRE⊕, WS-CWM★⊕	319⊕, 5S★⊕, AER⊕, BAG⊕, BCG⊕, BMG⊕, BRIC⊕, BRLE, CFG⊕, CWSRF⊕, EI⊕, EJSG★, EQIP, GTA, IPPG⊕, NCRRR⊕, NFWF★⊕, PAS⊕, PMIE⊕, RCPP⊕, REPI⊕, SURP; UCFP⊕, WPD⊕, WRE⊕, WS-AERP★⊕, WS-CWM★⊕, WS-EWRP⊕, WTB⊕, RSP★
Innovation	CIG⊕, RCPP⊕, SURP	CIG⊕, RCPP⊕, SURP	CIG⊕, SURP	BRIC⊕, CIG⊕, CWSRF⊕, RCPP⊕, SURP	CIG⊕, RCPP⊕, SURP, WGF	BRIC⊕, CIG⊕, CWSRF⊕, RCPP⊕, SURP, SWG⊕	BRIC⊕, CIG⊕, RCPP⊕, SURP, SWG⊕	BRIC⊕, CIG⊕, CWSRF⊕, RCPP⊕, SURP
Soil Health		EQIP, HSPG	EQIP, HSPG	CWSRF⊕, HSPG	EQIP, WGF, HSPG	CWSRF⊕, HSPG		CWSRF⊕, EQIP, HSPG
Water Conservation	RCPP⊕	RCPP⊕		RCPP⊕, WS-EWRP⊕, WTB⊕, LSWRP⊕	RCPP⊕, WS-EWRP⊕, WS-WEE⊕, WGF	RCPP⊕, WS-EWRP⊕, WS-WEE⊕, WTB⊕, LSWRP⊕	RCPP⊕	RCPP⊕, WS-EWRP⊕, WS-WEE⊕, WTB⊕, LSWRP⊕
Water Quality/Efficiency	319⊕, EJSG★, GTA, TTA, WPD⊕, PPRE, SSP⊕, ECWA	319⊕, EQIP, FMA⊕, WIFIA, RSP★	319⊕, ECP⊕, EQIP, FMA⊕, GTA	319⊕, CWSRF⊕, DWSIRS⊕, DWSRF⊕, EI⊕, EJG2G★, FMA⊕, GTA, STRLF⊕, TTA, WFPO⊕, WIFIA, WPD⊕, WS-CWM★⊕, WS-EWRP⊕, WTB⊕, PPRE, RSP★, LSWRP⊕, SSP⊕, ECWA, WWDPPP⊕	319⊕, EI⊕, EJCPS★, EJG2G★, EJSG★, EQIP, FMA⊕, GTA, TTA, WPD⊕, WS-CWM★⊕, WS-DRP⊕, WS-EWRP⊕, WS-SSWEP⊕, WS-WEE⊕, WS-WMS⊕, WGF, RSP★, SSP⊕, ECWA	319⊕, CWSRF⊕, DWSIRS⊕, DWSRF⊕, EI⊕, EJG2G★, FMA⊕, GTA, PAS⊕, STRLF⊕, WIFIA, WPD⊕, WS-CWM★⊕, WS-DRP⊕, WS-EWRP⊕, WS-SSWEP⊕, WS-WEE⊕, WS-WMS⊕, WTB⊕, RSP★, LSWRP⊕, SSP⊕, ECWA, WWDPPP⊕	319⊕, EI⊕, EJG2G★, FMA⊕, GTA, PAS⊕, STRLF⊕, WS-CWM★⊕	319⊕, CWSRF⊕, DWSIRS⊕, DWSRF⊕, EI⊕, EJG2G★, EJSG★, EQIP, FMA⊕, GTA, PAS⊕, STRLF⊕, WFPO⊕, WIFIA, WPD⊕, WS-CWM★⊕, WS-DRP⊕, WS-EWRP⊕, WS-SSWEP⊕, WS-WEE⊕, WS-WMS⊕, WTB⊕, PPRE, RSP★, LSWRP⊕, SSP⊕, ECWA, WWDPPP⊕
Wildfire Risk Reduction		HMGP⊕, RSP★	HMGP⊕	CWDG⊕, EJG2G★, HMGP⊕, SFA⊕, RSP★	CWDG⊕, EJG2G★, HMGP⊕, RSP★	CWDG⊕, EJG2G★, HMGP⊕, RSP★	EJG2G★, HMGP⊕	CWDG⊕, EJG2G★, HMGP⊕, SFA⊕, RSP★

# ACRONYM LIST

[319](#)⊕ = Clean Water Act Nonpoint Source Grant (Section 319(h) Grants)

[5S](#)★⊕ = Five Star and Urban Waters Restoration Grant Program

[AER](#)⊕ = Aquatic Ecosystem Restoration (Section 206)

[BAG](#)⊕ = Brownfields Assessment Grants

[BCG](#)⊕ = Brownfields Cleanup Grants

[BMG](#)⊕ = Brownfields Multipurpose Grants

[BRIC](#)⊕ = Building Resilient Infrastructure and Communities Program

[BRIC-DTA](#) = BRIC Sub-Program: Direct Technical Assistance

[BRLF](#) = Brownfields Revolving Loan Fund Grants

[CDBG](#) = Community Development Block Grant Program

[CDBG-DR](#) = Community Development Block Grant – Disaster Recovery Program

[CDBG-MIT](#) = Community Development Block Grant – Mitigation Program

[CFG](#)⊕ = Community Forestry Program

[CIG](#)⊕ = Conservation Innovation Grants

[CWDG](#)⊕ = Community Wildfire Defense Grant Program for At-Risk Communities

[CWSRF](#)⊕ = Clean Water State Revolving Fund

[DWSIRS](#)⊕ = Drinking Water System Infrastructure Resiliency and Sustainability Grant

[DWSRF](#)⊕ = Drinking Water State Revolving Fund

[ECP](#)⊕ = Emergency Conservation Program

[ECWA](#) = Emergency Community Water Assistance Grants

[EFRP](#)⊕ = Emergency Forest Restoration Program

[EI](#)⊕ = Environmental Infrastructure Program

[EJCPS](#)★ = Environmental Justice Collaborative Problem-Solving Cooperative Agreement Program

[EJG2G](#)★ = Environmental Justice Government-to-Government Program

[EJSG](#)★ = Environmental Justice Small Grants Program

[EJTGM](#) = Environmental Justice Thriving Communities Grantmaking Program

[EQIP](#) = Environmental Quality Incentives Program

[EWP](#)⊕ = Emergency Watershed Protection Program

[FMA](#)⊕ = Flood Mitigation Assistance Grant

[FPMS](#)⊕ = Flood Plain Management Services Program

[GTA](#) = Groundwork USA Technical Assistance

[HMGP](#)⊕ = Hazard Mitigation Grant Program

[HSPG](#) = Healthy Soil Program Grant

[IPPG](#)⊕ = Invasive Plant Program Grant

[LSWRP](#)⊕ = Large-Scale Water Recycling Program

[LWCF](#)⊕ = Land and Water Conservation Fund – State and Local Assistance Program

[NAWCA](#)⊕ = North American Wetlands Conservation Act Small Grants Program

[NCRRR](#)⊕ = National Culvert Removal, Replacement & Restoration Grants

[NFWF](#)★⊕ = NFWF America the Beautiful Challenge

[OLDCC](#)⊕ = Office of Local Defense Community Cooperation Military Installation Resilience Program

[P2-EIC](#) = Pollution Prevention Grant: Environmental Justice in Communities

[P2-EJSSP](#) = Pollution Prevention Grant: Environmental Justice Through Safer and More Sustainable Products

[PAS](#)⊕ = Planning Assistance to States and Tribes Program

[PMIE](#)⊕ = Project Modifications for Improvement of the Environment (Section 1135)

[PMREF](#)⊕ = Permanent Measures to Reduce Emergency Flood Fighting Needs for Communities Subject to Repetitive Flooding (Section 119)

[PPRF](#) = Public Project Revolving Fund

[RCPP](#)⊕ = Regional Conservation Partnership Program

[REDC](#) = Pilot Programs for Rural and Economically Disadvantaged Communities (Sections 118(b) and 118(c))

[REPI](#)⊕ = Readiness and Environmental Protection Integration Challenge

[RIDF](#) = Recycling and Illegal Dumping Fund

[RSP](#)★ = River Stewardship Program

[SFA](#)⊕ = State Fire Assistance Program

[SFRM](#)⊕ = Small Flood Risk Management Projects (Section 205)

[SRP](#) = Sustainable Rivers Program

[SSP](#)⊕ = Small Storage Program

[SURP](#) = Superfund Redevelopment Program

[STRLF](#)⊕ = Safeguarding Tomorrow Revolving Loan Fund Program

[SWFGF](#) = Solid Waste Facility Grant Fund

[SWG](#)⊕ = State Wildlife Grants

[TCRG](#) = Tribal Climate Resilience Grants – Annual Awards Program

[TTA](#) = Training and Technical Assistance for Rural, Small, and Tribal Wastewater Systems

[UCFP](#)⊕ = Urban and Community Forestry Program

[WCPP](#)⊕ = Wildlife Crossings Pilot Program

[WFPO](#)⊕ = Watershed and Flood Prevention Operations Program

[WGF](#) = Wallace Genetic Foundation

[WIFIA](#) = Water Infrastructure Finance and Innovation Act

[WPD](#)⊕ = Wetland Program Development Grants

[WRE](#)⊕ = Wetland Reserve Easements

[WS-AERP](#)★⊕ = WaterSMART Grant - Aquatic Ecosystem Restoration Projects

[WS-AS](#)⊕ = WaterSMART Grant - Applied Science Grants

[WS-CWM](#)★⊕ = WaterSMART Grant - Cooperative Watershed Management Program

[WS-DCP](#)⊕ = WaterSMART Grant - Drought Contingency Planning

[WS-DEA](#) = WaterSMART Grant - Drought Emergency Response Actions

[WS-DRP](#)⊕ = WaterSMART Grant - Drought Resiliency Projects

[WS-EWRP](#)⊕ = WaterSMART Grant - Environmental Water Resources Projects

[WS-SSWEP](#)⊕ = WaterSMART Grant - Small-Scale Water Efficiency Projects

[WS-Title XVI](#)⊕ = WaterSMART Grant - Title XVI Authorized Projects

[WS-WEE](#)⊕ = WaterSMART Grant - Water and Energy Efficiency

[WS-WIIN](#)⊕ = WaterSMART Grant - Title XVI WIIN Act Water Reclamation and Reuse Projects

[WS-WMS](#)⊕ = WaterSMART Grant - Water Marketing Strategy Grants

[WTB](#)⊕ = Water Trust Board Water Project Fund

[WWDPPP](#)⊕ = Water & Waste Disposal Predevelopment Planning Grants

# APPLICATION DUE DATES

First Quarter (Jan-Mar)	Second Quarter (Apr-Jun)	Third Quarter (Jul-Sep)	Fourth Quarter (Oct-Dec)	All Year	Unknown
<a href="#">5S</a> ★⊕ <a href="#">BRIC</a> ⊕ <a href="#">BRIC-DTA</a> <a href="#">CFG</a> ⊕ <a href="#">EWP</a> ⊕ <a href="#">FMA</a> ⊕ <a href="#">LSWRP</a> ⊕ <a href="#">NCRRR</a> ⊕ <a href="#">RIDF</a> <a href="#">SWG</a> ⊕ <a href="#">UCFP</a> ⊕ <a href="#">WPD</a> ⊕ <a href="#">WS-CWM</a> ★⊕	<a href="#">CIG</a> ⊕ <a href="#">EJCPS</a> ★ <a href="#">EIG2G</a> ★ <a href="#">EISG</a> ★ <a href="#">EITCGM</a> <a href="#">HSPG</a> <a href="#">NFWF</a> ★⊕ <a href="#">P2-EJC</a> <a href="#">P2-EJSSP</a> <a href="#">STRLF</a> ⊕ <a href="#">SWFGE</a> <a href="#">WS-AERP</a> ★⊕ <a href="#">WS-AS</a> ⊕ <a href="#">WS-DCP</a> ⊕ <a href="#">WS-DRP</a> ⊕ <a href="#">WS-EWRP</a> ⊕ <a href="#">WS-SSWEP</a> ⊕	<a href="#">REPI</a> ⊕ <a href="#">RSP</a> ★ <a href="#">TCRG</a> <a href="#">TTA</a> <a href="#">WCPP</a> ⊕ <a href="#">WS-WEE</a> ⊕ <a href="#">WS-WMS</a> ⊕ <a href="#">WTB</a> ⊕	<a href="#">BAG</a> ⊕ <a href="#">BMG</a> ⊕ <a href="#">BRLF</a> <a href="#">CWDG</a> ⊕ <a href="#">LWCF</a> ⊕ <a href="#">NAWCA</a> ⊕ <a href="#">RCPP</a> ⊕ <a href="#">SSP</a> ⊕	<a href="#">CDBG</a> <a href="#">CDBG-DR</a> <a href="#">CDBG-MIT</a> <a href="#">CWSRF</a> ⊕ <a href="#">DWSIRS</a> ⊕ <a href="#">DWSRF</a> ⊕ <a href="#">ECP</a> ⊕ <a href="#">ECWA</a> <a href="#">EFRP</a> ⊕ <a href="#">EI</a> ⊕ <a href="#">FPMS</a> ⊕ <a href="#">GTA</a> <a href="#">HMGP</a> ⊕ <a href="#">IPPG</a> ⊕ <a href="#">PAS</a> ⊕ <a href="#">PMREF</a> ⊕ <a href="#">PPRF</a> <a href="#">SEA</a> ⊕ <a href="#">SURP</a> <a href="#">WFPO</a> ⊕ <a href="#">WIFIA</a> <a href="#">WRE</a> ⊕ <a href="#">WS-DERA</a> <a href="#">WWDPP</a> ⊕	<a href="#">EQIP</a> <a href="#">QLDCC</a> ⊕ <a href="#">WS-Title XVI</a> ⊕ <a href="#">WS-WIIN</a> ⊕ <a href="#">BCG</a> ⊕ <a href="#">AER</a> ⊕ <a href="#">319</a> ⊕ <a href="#">REDC</a> <a href="#">PMIE</a> ⊕ <a href="#">SFRM</a> ⊕ <a href="#">SRP</a> <a href="#">WGF</a>

[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

SAMC Memo to EC – Recs for Mgmt of Vegetated Islands Bars [read-ahead]



# Middle Rio Grande Endangered Species Collaborative Program

Est. 2000

DATE: March 30, 2023

TO: The Middle Rio Grande Endangered Species Collaborative Program (MRGESCP)  
Executive Committee (EC)

FROM: The MRGESCP Science and Adaptive Management Committee (SAMC)

RE: Recommendations from October 2022 MRGESCP Workshop on Management of  
Vegetated Islands and Bank-attached Bars

Following the October 2022 Workshop on Management of Vegetated Islands and Bank-attached Bars, the SAMC reviewed problem statements, objectives and strategies developed during the breakout sessions, and identified key findings from the workshop. This memo summarizes those findings and recommends to the EC next steps for the MRGESCP regarding this important topic.

First, although the focus of the breakout sessions was management of vegetated islands and bars, participants quickly realized that this management has many implications and requires the balancing of three primary management priorities within the MRG: water delivery, flood control, and ecosystem management. The critical question became: *How do we balance these priorities through collaboration and partnerships in the face of a dynamic river system?*

Importantly, bars and islands are not replacements for the floodplain. Although bars and islands might create habitat for certain species under certain conditions and generate ecosystem services, they also affect important water conveyance and sediment transport processes in the channel. Formulation of a conceptual model is suggested for the vegetated island/bar phenomenon in the Middle Rio Grande. This model should account for spatial and temporal successional changes on islands and bars, as well as potential trade-offs regarding habitat formation/loss for different species. The model will help to characterize trends and conditions, which in turn help to identify management alternatives (e.g., maintaining a mosaic of different habitats within a reach) and potential impacts associated with each.

Finally, a more comprehensive and common understanding of the workshop topic is needed. To address this need, workshop breakout groups proposed strategies for tool development (i.e., maps and models), defining technical terms and relationships relating to this topic, and a summary report to develop consensus among stakeholders. Groups also identified research, planning and management needs, particularly all relevant data sets that are currently available, as well as data gaps. A designated team (or additional workshop) was suggested to carry these efforts forward.

The SAMC, therefore, recommends the following next steps in support of collaborative planning and management of vegetated islands and bars in the Middle Rio Grande:

- Develop common definitions for relevant technical terms relating to vegetated islands and bars
- Identify currently available, relevant data sets and data gaps
- Summarize in a report the research, planning and management efforts and needs regarding management of vegetated islands and bank-attached bars.
- Develop a conceptual model representing the ecosystem functions and physical river conditions of interest and develop management goals around these (e.g., ideal conceptual river cross sections and profiles, functional wetlands).

[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

List of Program Portal Data Sets 2023 [read-ahead]

Name	Update Frequency	Layer on Interactive Map?	Source	Notes
RGSM Population Monitoring	Annual	Yes	ASIR	
RGSM Rescue	Annual	Currently: No, future?	USFWS	
RiverEyes	Annual	Yes (two layers)	USBR	Data also available at: <a href="https://reyes.gsanalysis.com/">https://reyes.gsanalysis.com/</a>
Habitat Restoration Map (RioRestore)	Annual?	Yes	NMISC	
Hink and Ohmart Vegetation Map	N/A	Yes	USBR	
River Miles	Every 10 years	Yes	USBR	
Augmentation	N/A	Currently: No, future?	USBR	
BioPark Egg Collection	N/A	N/A	BioParks	
ABCWUA Egg Collection	N/A	N/A	ABCWUA	
Fish Use/Floodplain habitat	N/A	N/A	NMISC	
FLO geo	N/A	N/A	USBR	
LiDAR imagery	N/A	N/A	USBR	
Bird Data/Avian Community Monitoring (SWFL/YBCU surveys and monitoring)	N/A	N/A	USACE	
Groundwater Monitoring	N/A	N/A	USACE	
Climate Change Data	N/A	N/A	USACE	



[Link to full Meeting Materials List](#)

Science and Adaptive Management Committee Meeting  
August 21, 2023

*See the following meeting material on the page below:*

Information & Data Quality Ad Hoc Group Charge [read-ahead]

**Middle Rio Grande Endangered Species Collaborative Program (MRGESCP)  
Information and Data Quality Standards Hybrid Ad Hoc Group  
DRAFT Charge**

*Note: Due to this charge's relationship to both MRGESCP administrative and science practices, this group will be a hybrid Administrative/Science and Technical Ad Hoc Group. Therefore, the charge and final deliverables must be approved by both the Executive Committee (EC) and the Science and Adaptive Management Committee (SAMC).*

**Approved by the SAMC on August 26, 2022.**

**Approved by the EC on September 8, 2022.**

**Approved by the Information and Data Quality Standards Hybrid Ad Hoc Group on February 9, 2023.**

**Revised for the SAMC on June 8, 2023.**

**Revised Ad Hoc Group Charge**

The Information and Data Quality Standards Hybrid Ad Hoc Group will develop a form template that summarizes data QA/QC and management practices for each signatory project entered into the SAMIS, and will develop language for a data disclaimer for the Program Portal.

**Membership**

**A. Criteria for membership**

- An understanding of the Information Quality Act (IQA) and other federal and state regulations/policies regarding data management and information quality assurance/quality control (QA/QC).
- An understanding of good data management practices.
- Experience with, or future interest in, providing scientific information to the MRGESCP in order to inform recommendations to natural resource management agencies.
- Experience with, or future interest in, posting scientific data and reports onto the Program Portal.

**B. Member List**

- *Matt Wunder, Co-Lead*
- *Ara Winter, Co-Lead*
- Mick Porter, U.S. Army Corps of Engineers
- Kenneth Richard, U.S. Bureau of Reclamation
- Shannon Weld, N.M. Interstate Stream Commission
- Ara Winter, Bosque Ecosystem Monitoring Program
- Matt Wunder, N.M. Department of Game and Fish

**Background**

The initial charge of the Information and Data Quality Standards Hybrid Ad Hoc Group was to investigate the feasibility, utility, and necessity of applying Information Quality Act (IQA)<sup>1</sup> standards to the MRGESCP. On March 27, 2023, the Ad Hoc Group determined that developing IQA-

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<sup>1</sup> The Information Quality Act (IQA) or Data Quality Act (DQA) (Section 515 of Public Law 106-554) directs the Office of Management and Budget (OMB) to issue government-wide guidelines that "provide policy and procedural guidance to federal agencies for ensuring and maximizing the quality, objectivity, utility, and integrity of information (including statistical information) disseminated by Federal agencies."

compliant standards to the MRGESCP was not a feasible task since IQA standards vary by organization and signatories must comply with their own agency standards, or the standards of relevant funding agencies.

However, the Ad Hoc Group saw value in documenting data management practices for each project uploaded to the SAMIS. This documentation would give SAMIS users additional information about how data are collected, stored, and managed for individual projects, and could provide a snapshot of IQA standards that are being met by a project.

## **Tasks and Deliverables**

### ***Task One Description***

Create a form template for information on data management for projects uploaded into the SAMIS.

#### ***Objective of Task One***

To document data management practices for individual projects within the SAMIS to support external data use.

#### ***Deliverable(s):***

1. Form template compatible with the SAMIS for users to fill out when uploading data.
2. Document with definitions and justifications for each field included in the template.

### ***Task Two Description***

Develop a data disclaimer for the Program Portal.

#### ***Objective of Task Two***

To develop a data disclaimer to protect the MRGESCP, signatories, agencies that fund project contracts, and project contractors, from liability relating to decisions supported by data and other information served on the Program Portal.

#### ***Deliverable(s):***

Draft disclaimer language for SAMC and EC review to put on the Program Portal.

## Timeline and Reporting Scheduling

<b>Task</b>	<b>Subtask</b>	<b>Deliverable</b>	<b>To Be Completed By</b>
Create a form template for information on data management for projects uploaded into the SAMIS.	Identify appropriate fields to include in the template in order to provide a snapshot of data management practices for a project.	Template with fields and associated document with definitions and justifications for each field.	July 2023
	Revise the template to ensure usability within the SAMIS	Revised template	July 2023
Draft a data disclaimer for the Program Portal.		Draft disclaimer language for SAMC and EC review to put on the Program Portal.	August 2023 SAMC