

# 2024 Current Fiscal Year Report: Glen Canyon Dam Adaptive Management Work Group

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## 1. Department or Agency

Department of the Interior

## 2. Fiscal Year

2024

## 3. Committee or Subcommittee

Glen Canyon Dam Adaptive Management  
Work Group

## 3b. GSA

## Committee No.

5163

## 4. Is this New During Fiscal Year?

No

## 5. Current Charter

09/15/2023 09/15/2025

## 6. Expected Renewal Date

## 7. Expected Term Date

## 8a. Was Terminated During Fiscal Year?

No

## 8b. Specific Termination Authority

Public Law 102-575

## 8c. Actual Term Date

## 9. Agency Recommendation for Next Fiscal Year

Continue

## 10a. Legislation Req to Terminate?

Not Applicable

## 10b. Legislation Pending?

Not Applicable

## 11. Establishment Authority

Authorized by Law

## 12. Specific Establishment Authority

Grand Canyon Protection  
Act (Public Law 102-575)

## 13. Effective Date

10/30/1992 Continuing

## 14. Committee Type

## 14c. Presidential?

No

## 15. Description of Committee

Scientific Technical Program  
Advisory Board

## 16a. Total Number of Reports

No Reports for  
this Fiscal Year

## 17a. Open

3

## 17b. Closed

0

## 17c. Partially Closed

0

## Other Activities

0

## 17d. Total

3

## Meetings and Dates

### Purpose

Will update after meeting.

### Start

### End

02/28/2024 - 02/29/2024

Items that were discussed were budget priorities for FY2024, and an update on Hydrology and Water Quality at Glen Canyon Dam. We also discussed Resource Impacts from High-flow Experiments and Invasive Fish Surveillance in Lake Powell, and in Glen and Grand Canyons. The Long Term Experimental and Management Plan (LTEMP) Supplemental Environmental Impact Statement (SEIS) was discussed with an update given on the status. There were additional updates on Monitoring Metrix, the Brown Trout Incentivized Harvest Program and Tracking Natal Origins of Brown Trout in the Grand Canyon. There was also a discussion of the 12 Mile Slough and what is wanted to happen there - chemical treatments, electrofishing, etc.

[Glen Canyon Dam Technical Work Group] The GCMRC Annual Reporting meeting was held the 2 days prior to this meeting. 11/07/2023 - 11/08/2023 01/25/2024 - 01/25/2024

**Number of Committee Meetings Listed: 3**

	Current FY	Next FY
<b>18a(1). Personnel Pmts to Non-Federal Members</b>	\$0.00	\$0.00
<b>18a(2). Personnel Pmts to Federal Members</b>	\$0.00	\$0.00
<b>18a(3). Personnel Pmts to Federal Staff</b>	\$0.00	\$0.00
<b>18a(4). Personnel Pmts to Non-Member Consultants</b>	\$0.00	\$0.00
<b>18b(1). Travel and Per Diem to Non-Federal Members</b>	\$0.00	\$0.00
<b>18b(2). Travel and Per Diem to Federal Members</b>	\$0.00	\$0.00
<b>18b(3). Travel and Per Diem to Federal Staff</b>	\$0.00	\$0.00
<b>18b(4). Travel and Per Diem to Non-member Consultants</b>	\$0.00	\$0.00

<b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b>	\$0.00 \$0.00
<b>18d. Total</b>	\$0.00 \$0.00
<b>19. Federal Staff Support Years (FTE)</b>	0.00 0.00

**20a. How does the Committee accomplish its purpose?**

The purpose of the Glen Canyon Dam Adaptive Management Work Group (AMWG) is to establish and implement long-term monitoring programs and activities that will ensure that Glen Canyon Dam is operated in a manner consistent with that of section 1802 of the Grand Canyon Protection Act. The AMWG accomplishes its work by taking action on recommendations from its technical subcommittee, reviewing scientific results provided by the Grand Canyon Monitoring and Research Center, and evaluating assessments conducted by the science advisors (under contract to the Bureau of Reclamation). In addition, stakeholders and other entities involved in conducting research provide documents and make presentations to the AMWG. With these levels of review and involvement, the AMWG is able to provide well informed recommendations to the Secretary of the Interior. The AMWG responds accordingly to challenges being faced in operating Glen Canyon Dam by making recommendations to the Secretary of the Interior through the Secretary's Designee, the Assistant Secretary for Water and Science.

**20b. How does the Committee balance its membership?**

The Glen Canyon Dam Environmental Impact Statement (EIS) prepared in March 1995 identified the AMWG membership as: (1) representation from each of the cooperating agencies associated

with the EIS, (2) representatives from each of the Colorado River Basin States, and (3) two representatives each from environmental groups, recreation interests, and contractors from Federal power from Glen Canyon Dam. This configuration of Federal, State, Tribal, and community representation has served the adaptive management program well since it was chartered in 1997. While the membership remains static because of the above designations, there are sufficient changes in personnel to maintain the integrity of the group and be actively engaged in all subject matters. Many of the members, particularly those in the basin states, participate in other groups and bring added knowledge and experience to the AMWG. On December 28, 2022, a Federal Register Notice was published as an open call for nominations for those who might be interested in serving on the AMWG.

**20c. How frequent and relevant are the Committee Meetings?**

The AMWG holds two in-person meetings and one virtual meeting during the fiscal year. The meetings are relevant in keeping the Secretary of the Interior and the general public informed on significant areas of concern related to Glen Canyon Dam operations. For example, when the August meetings are held in Flagstaff, Arizona, local business owners, river guides, and interested persons, etc., attend and participate as a means of conveying their interest and insight to work being done in the Grand Canyon. Meetings or conference calls are noticed in the Federal Register and are scheduled at venues to ensure maximum member and public participation.

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

This committee fulfills Sections 1804 and 1805 of the Grand Canyon Protection Act. The Grand Canyon Protection Act requires the Secretary of the Interior to consult with certain stakeholders on the operation of the Glen Canyon Dam; that consultation has occurred through the establishment and continuing advisory role of the AMWG Federal advisory committee. Consultation through the AMWG began with the 1996 Record of Decision for the Operation of Glen Canyon Dam Final Environmental Impact Statement and continued through the 2016 Record of Decision for the Glen Canyon Dam Long-Term Experimental and Management Plan Environmental Impact Statement (LTEMP EIS). This committee creates a forum for the open exchange of ideas from a diversity of stakeholders who are committed to improving the Colorado River resources in Glen and Grand Canyons. Each member actively participates and has a vested interest in the operation of Glen Canyon Dam. The committee provides a forum for members to resolve their differences in a cohesive setting. Compromises are often needed in order to benefit the whole program. The AMWG often addresses complex issues through collaboration, which typically improves overall solutions and reduces the potential for future conflict.

**20e. Why is it necessary to close and/or partially closed committee meetings?**

All committee meetings are open to the public.

**21. Remarks**

One recommendation was made to the Secretary of the Interior in FY2023 to approve the proposed FY2024 budget for the Glen Canyon Dam Adaptive Management Program.

## Designated Federal Officer

Daniel C Picard Deputy Regional Director

Committee Members	Start	End	Occupation	Member Designation
Begay (M), Richard	08/14/2020	08/14/2026	Tribal Member, Representative Navajo Nation Grand Canyon River Guides	Member
Brown (M), David	07/14/2016	08/14/2026	Representative of River Recreation	Representative Member
Bulletts (M), Daniel	01/25/2022	01/25/2025	Tribal Member, Southern Paiute Consortium	Representative Member
Carter (M), Julie	01/25/2022	01/25/2025	AZ Game & Fish Department	Representative Member
Chandler (M), Clint	08/20/2018	01/25/2025	Arizona Dept of Water Resources	Representative Member
Effati (M), Ali	01/12/2023	01/12/2026	State of New Mexico Colorado River	Representative Member
Ferrantelli (M), Charlie	01/12/2023	01/12/2026	Coordinator, State of Wyoming	Representative Member
Garlick (M), Kevin	08/14/2020	01/25/2025	Utah Municipal Power Agency Interstate, Federal & Water	Representative Member
Garrison (M), Michelle	08/14/2023	08/14/2026	Information Section Chief, State of Colorado	Representative Member
Haas (M), Amy	08/15/2023	08/15/2026	State of Utah	Representative Member
James (M), Leslie	07/30/1998	01/25/2025	CO River Energy Dist. Assoc.	Representative Member
Keable (M), Edward	01/25/2022	01/25/2025	National Park Service	Regular Government Employee (RGE) Member
Maase (M), Jakob	08/14/2020	08/14/2026	Tribal Member, Hopi Tribe	Representative Member
Neuwerth (M), Jessica	01/12/2023	01/12/2026	State of California Deputy Regional	Representative Member Regular Government Employee
Picard (M), Daniel	07/10/2015	06/17/2025	Director, Bureau of Reclamation	Employee (RGE) Member

Price (M), Sara	08/14/2020	08/14/2026	Executive Director, Colorado River Representative Commission of Member Nevada, State of Nevada	
Pullan, Wayne	10/01/2020	09/30/2024	Acting Secretary of the Interior's Designee	Regular Government Employee (RGE) Member
Rice (M), Matt	08/14/2020	08/14/2026	American Rivers/National Parks Conservation Association	Representative Member
Sadler (M), Brian	01/12/2023	01/12/2026	Western Area Power Administration	Regular Government Employee (RGE) Member
Stevens (M), Larry	12/04/2006	08/14/2026	Grand Canyon Wildlands Council	Representative Member
Strogen (M), James	01/25/2022	01/25/2025	Fly Fishers International	Representative Member
Wemytewa (M), Edward	08/14/2023	08/14/2026	Councilman	Representative Member
Whitlaw (M), Heather	01/12/2023	01/12/2026	U.S. Fish and Wildlife Service	Regular Government Employee (RGE) Member
Barrett (M), Clifford [Glen Canyon Dam Technical Work Group]	06/24/2014	09/30/2026	Utah Associated Municipal Power Systems	Representative Member
Bulletts (M), Daniel [Glen Canyon Dam Technical Work Group]	01/26/2022	01/26/2026	Southern Paiute Consortium	Representative Member
Cannon (M), Carrie [Glen Canyon Dam Technical Work Group]	09/16/2020	09/30/2026	Biologist, Hualapai Tribe	Representative Member
Capron (M), Shane [Glen Canyon Dam Technical Work Group]	06/04/2012	06/04/2026	Fish Biologist, WAPA	Ex Officio Member
Dongoske (M), Kurt [Glen Canyon Dam Technical Work Group]	11/03/2010	09/30/2026	Tribal Interest, Pueblo of Zuni	Representative Member
Eberle (M), C. Sinjin [Glen Canyon Dam Technical Work Group]	01/27/2022	01/27/2026	American Rivers	Representative Member
Fazio (M), Buddy [Glen Canyon Dam Technical Work Group]	10/25/2022	10/25/2026	National Park Service Glen Canyon	Ex Officio Member

Fegler (M), Mel [Glen Canyon Dam Technical Work Group]	08/29/2022	08/29/2026	State of Wyoming	Representative Member
Garrison (M), Michelle [Glen Canyon Dam Technical Work Group]	12/18/2019	09/30/2026	Senior Water Resource Specialist, State of Colorado	Representative Member
Johnson (M), Kristen [Glen Canyon Dam Technical Work Group]	01/26/2022	01/26/2026	Arizona Dept of Water Resources	Representative Member
Keedah (M), Rudy [Glen Canyon Dam Technical Work Group]	04/10/2023	04/10/2026	Bureau of Indian Affairs	Ex Officio Member
Mann (M), Ryan [Glen Canyon Dam Technical Work Group]	11/21/2016	09/30/2026	Manager, Aquatic Research Program	Representative Member
McGettigan (M), Scott [Glen Canyon Dam Technical Work Group]	07/19/2021	09/30/2026	State of Utah	Representative Member
Neuwerth (M), Jessica [Glen Canyon Dam Technical Work Group]	06/08/2022	06/08/2026	State of California	Representative Member
Noftsker (M), Christina [Glen Canyon Dam Technical Work Group]	06/08/2022	09/30/2026	State of New Mexico	Representative Member
Persons (M), Bill [Glen Canyon Dam Technical Work Group]	01/27/2022	09/30/2026	Biologist	Representative Member
Reeder (M), Ben [Glen Canyon Dam Technical Work Group]	02/16/2016	02/16/2026	Grand Canyon River Guides	Representative Member
Shanahan (M), Seth [Glen Canyon Dam Technical Work Group]	10/01/2016	10/01/2026	Natural Resource Analyst, State of Nevada	Representative Member
Stanfield (M), Erik [Glen Canyon Dam Technical Work Group]	07/19/2021	07/19/2026	Navajo Nation	Representative Member

## Number of Committee Members Listed: 42

## Narrative Description

The Bureau of Reclamation administers the AMWG. Reclamation, along with four other Department of the Interior agencies (Bureau of Indian Affairs, U.S. Fish and Wildlife Service, U.S. Geological Survey, and National Park Service) works collectively under the Department of the Interior's mission to protect and manage the Nation's natural resources and cultural heritage; provides scientific and other information about those resources; and honors its special



responsibilities to American Indians, Alaska Natives, and affiliated Island Communities. The AMWG is dedicated to resolving complex issues related to the operation of Glen Canyon Dam, mitigating for damage caused by the dam, and improving conditions for endangered species with the overall goal of doing what is best for all resources in the Grand Canyon. The AMWG is an important means by which Reclamation meets its mission to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

**What are the most significant program outcomes associated with this committee?**

	Checked if Applies
Improvements to health or safety	<input checked="" type="checkbox"/>
Trust in government	<input checked="" type="checkbox"/>
Major policy changes	<input type="checkbox"/>
Advance in scientific research	<input checked="" type="checkbox"/>
Effective grant making	<input type="checkbox"/>
Improved service delivery	<input type="checkbox"/>
Increased customer satisfaction	<input checked="" type="checkbox"/>
Implementation of laws or regulatory requirements	<input checked="" type="checkbox"/>
Other	<input checked="" type="checkbox"/>

**Outcome Comments**

The AMWG utilizes the best available science and legal authorities in making critical recommendations for protecting and improving the resources in the Grand Canyon. Efforts are made to keep the public informed of decisions being made by the Department of the Interior that may affect them. Local anglers and supporting businesses in the Page, Arizona, area have expressed concern when high-flow experiments are conducted as they can have economic impacts on local fishing activities. Other groups, including recreational rafters and supporting businesses, have expressed support for the high-flow experiments as they rebuild beaches in the Grand Canyon. The Secretary's Designee engages in Government-to-Government consultation to discuss concerns raised by Native American Tribes on program activities.

**What are the cost savings associated with this committee?**

Checked if Applies

None	<input type="checkbox"/>
Unable to Determine	<input type="checkbox"/>
Under \$100,000	<input type="checkbox"/>
\$100,000 - \$500,000	<input type="checkbox"/>
\$500,001 - \$1,000,000	<input checked="" type="checkbox"/>
\$1,000,001 - \$5,000,000	<input type="checkbox"/>
\$5,000,001 - \$10,000,000	<input type="checkbox"/>
Over \$10,000,000	<input type="checkbox"/>
Cost Savings Other	<input type="checkbox"/>

**Cost Savings Comments**

Because the AMWG is comprised of stakeholders from several western states, environmental and recreational groups, purchasers of Federal power, and representatives from five Federal agencies, there is an intended cost savings in resolving issues in regular meetings versus individual meetings as well as reducing the potential for litigation with the Department of the Interior.

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

61

**Number of Recommendations Comments**

In FY2023, one recommendation was forwarded to the Secretary of the Interior: The Adaptive Management Work Group (AMWG) recommends for approval to the Secretary of the Interior, the FY2024 budget as shown on the budget worksheets presented to the AMWG on August 16, 2023, with the following additional guidance: The AMWG recommends that any lethal management activity performed under the Glen Canyon Dam Adaptive Management Program (GCDAMP) Work Plan complies with the 2017 Programmatic Agreement for Long-Term Experimental Management Plan and the National Park Service 2019 Expanded Non-Native Aquatic Species Management Plan Programmatic Agreement prior to implementation of that action. The AMWG recommends that Grand Canyon Monitoring and Research Center Project N funds become available funds as described below. If funds become available, which will include Project N funds, the AWMG recommends those funds are used to fund the work items listed below in order of priority: Priority 1 -Short Term Rapid Response Under the Invasive Species Strategic Plan – Invasive Fish Species Below Glen Canyon Dam: A Strategic Plan to Prevent, Detect and Respond was adopted by the AMWG on February 16th, 2023. Should short term response be necessary in FY2024 under this Strategic Plan, the Department of the

Interior should prioritize available funds outside of the GCDAMP. If other funding sources have been exhausted, the Department of the Interior may consider use of the Reclamation C.5 Experimental Management Fund and the C.6 Native Fish Conservation Contingency Fund. Such actions that may require use of these funds must be coordinated with the AMWG as proposed in the Strategic Plan and Budget Ad Hoc Group process. Priority 2 – Continue Project Element G.6, Juvenile Chub Monitoring-West Priority 3 – Continue sampling at two sub-reaches for Project Element H.2, Experimental Flow Assessment of Trout Recruitment. Priority 4 – Continue Project Element C.3, Riparian Vegetation Predictive models and synthesis. Priority 5 – Other Additional Requests identified in the GCMRC FY24 Table.

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

95%

**% of Recommendations Fully Implemented Comments**

The budget recommendation was presented at the August meeting and past acceptance of this and other AMWG recommendations by the Secretary indicates this recommendation will likely be supported going forward into FY2024. Because AMWG recommendations are usually based on the consensus of a very diverse group of stakeholders, the recommendations of the committee are generally very sound and align with Department of the Interior policies and priorities.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

5%

**% of Recommendations Partially Implemented Comments**

It is anticipated the Secretary will concur with the majority of recommendations forwarded from the AMWG. However, a 5% ratio is factored in for those which may not be acted upon by the Secretary.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

Feedback from the Secretary is provided through the Secretary's Designee at regularly scheduled AMWG meetings, conference calls, and e-mail messages.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input checked="" type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

**Action Comments**

Depending on any environmental changes (weather, ecological, etc.) which occur in the Grand Canyon, some research projects may be re-prioritized to address critical program concerns in a short period of time. Discussions are fully vetted through the Technical Work Group subcommittee with input from the science advisors before any recommendation(s) are forwarded to the AMWG for further deliberation and possible action.

**Is the Committee engaged in the review of applications for grants?**

No

**Grant Review Comments**

N/A

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

Contact DFO	<input checked="" type="checkbox"/>
Online Agency Web Site	<input checked="" type="checkbox"/>
Online Committee Web Site	<input checked="" type="checkbox"/>
Online GSA FACA Web Site	<input checked="" type="checkbox"/>
Publications	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

**Access Comments**

Members of the public may contact the AMWG's Designated Federal Officer for information regarding this committee, or visit the AMWG website listed in GENERAL INFORMATION.

