TWG Input on the Triennial Budget and Work Plan

Adaptive Management Workgroup Meeting
September 20, 2017

Seth Shanahan
TWG Chairperson
• Jan – TWG provides initial guidance to GCMRC and Reclamation

• April – TWG meeting to consider draft TWP

• June – TWG meets to provide input on the draft TWG and provide a recommendation to the AMWG.
A Layered Approach

TWG “individual” input

AHG “group” input

TWG “group” input

BAHG “group” input

AMWG input

TWG Recommendation
Getting to a TWG Recommendation
Timeline

2017

1st draft issued
4/10/2017

Notice of FACA suspension
5/9/2017

Notice of TWG resumption
6/12/2017

3rd draft issued
7/1/2017

BAHG call
7/6/2017

BAHG call
7/13/2017

BAHG call
7/17/2017

BAHG call
7/20/2017

BAHG call
7/27/2017

BAHG call
8/3/2017

BAHG call and comments submitted
8/4/2017

Final draft issued
8/18/2017

TWG meeting
8/30/2017

Apr | May | Jun | Jul | Aug | 2017

SAP review and comment on GCMRC TWP
5/18/2017 - 6/9/2017

SAP review and comment on Reclamation TWP
6/30/2017 - 7/24/2017
Reoccurring Themes

• Insufficient time led to stakeholder frustrations
• Majority voting was used as a last resort but consensus remains the goal
• Voting results indicate disagreements; several abstained
• Prioritization challenges and funding limitations persist
• Grand Canyon Protection Act fidelity remains important
Reoccurring Themes

• Whole-system perspective not clearly understood
• Organization and funding necessary to achieve cultural resource goals and compliance
• Hydropower resource goal attention needed
• Evaluation timelines questioned given the 20-year LTEMP term
TWG Recommendation

The TWG recommends that the AMWG recommend for approval the Glen Canyon Adaptive Management Program Triennial Budget and Work Plan – Fiscal Years 2018-2020 (Draft August 17, 2017) to the Secretary of Interior with the following changes:
TWG Recommended Changes

1. Approving GCMRC’s Project C as written, contingent upon adding language to Reclamation’s Project C.7., Experimental Vegetation Treatment, for funding tribal engagement as partners in planning and executing the experiment.

2. Approving GCMRC Project D with no funding for D.1, D.2, or D.3, but with funding for D.4.

3. GCMRC Project G.5 – Add one annual seining trip funded by the Native Fish Conservation Contingency Fund.
TWG Recommended Changes

4. Approve GCMRC Project I with an additional Spring system-wide monitoring trip to I.1 and a Fall Diamond Down trip.

5. GCMRC Project E. with reinsertion of Project E.7.1, Aquatic Vegetation Surveys, and Project E.7.2, Artificial Streams.
6. Without a net increase to the budget, add a new Project N, Hydropower, to the GCMRC work plan with work efforts that include (also add to Reclamation Project C with complementary language):
   a. Develop Glen Canyon Dam operational experiments to meet the hydropower objective.
   b. Consider and estimate impacts of experiments on hydropower as part of experimental design.
   c. Incorporate total hydropower value into Decision Support Systems being developed in GCMRC Project J.2
   d. Utilize WAPA and Reclamation hydropower data, as available, and include WAPA technical staff in the development of models, design of experiments, and monitoring metrics.
TWG Recommended Changes

7. GCMRC Project J. Socioeconomics as written with additional language:
   a. Clarifying language will be added to Project J.2 that indicates integrating hydropower analysis into the modeling of trout management flows will be a primary focus. Incorporating hydropower analysis follows the development and integration of rainbow trout and humpback chub population models and cost-effectiveness analysis, used to identify efficient management actions to meet adult humpback chub abundance goals. Hydropower analysis in J.2 is an incremental step in the development of applied decision and scenario analysis research at GCMRC. Adding hydropower analysis into the applied decision and scenario analysis research is timely provided the proposed LTEMP EIS experiments, including trout management flows.
   b. A workshop will occur with GCMRC staff and GCDAMP stakeholders in fiscal year 2018 to review and discuss the trade-offs between trout management flows, expected downstream rainbow trout and humpback chub outcomes and associated costs of management actions, including hydropower. This workshop will provide an opportunity to explore opportunities to improve hydropower resources while meeting downstream rainbow trout and humpback chub resources goals as defined in the LTEMP EIS.
TWG Recommended Changes

8. Approve Reclamation Project D. with addition of identifying how Reclamation Project D elements and GCMRC project elements address stipulations in the PA and track their progress.

9. Increase funding for Reclamation Project D.10 to a target balance of about $200,000 by the end of FY 2018.

10. Approve Reclamation Project C. with changes to allow allocation of some funds from Reclamation Project C.5 into Reclamation Project D.10.