

**Minutes of Technical Work Group Meeting
January 13, 1999**

Presiding: Robert Winfree (Chairperson)

Committee Members Present:

Clifford Barrett, CREDA
Dave Cohen, Trout Unlimited
Wayne Cook, UCRC
Wm. E. Davis, EcoPlan Assoc./CREDA
Kurt Dongoske, The Hopi Tribe
So. Paiute Consortium (by Brenda Drye)
Norm Henderson, GCNRA
Amy Heuslein, BIA
Rick Johnson, Grand Canyon Trust

Robert King, UDWR
Don Metz, USFWS
Bruce Moore, USBR
Clayton Palmer, WAPA
Bill Persons, AGFD
Andre Potochnik, GC River Guides
Randy Seaholm, CWCB
John Shields, Wyo. State Engineer's Office
Robert Winfree, NPS/GCRA

Committee Members Absent:

Mark Anderson, USGS
Kerry Christensen, Hualapai Nation
Alan Downer, Navajo Nation
Christopher Harris, ADWR

Tom Latousek, American Rivers
Pueblo of Zuni (by Loren Panteah)
Phillip S. Lehr, CRCN
Fred Worthley, CRBC

Alternates Present:

Brenda Drye, So. Paiute Consortium
Nancy Hornewer, USGS

Alternate For:

So. Paiute Consortium
Mark Anderson, USGS

Other Interested Persons Present:

Trudy Ann Cameron, NRC
Mary Barger, WAPA
Gary Burton, WAPA
Nancy Coulam, USBR-SLC
Shane Collins, WAPA
Jeff Jacobs, NRC
Ruth Lambert, GCMRC
Mike Liszewski, GCMRC
Steven Lloyd, USBR
Ted Melis, GCMRC

W.L. Minckley, NRC
Anthony Morton, USBR
Jacqueline Murphy, USBR
Randy Peterson, USBR
Barbara Ralston, GCMRC
Larry Sibala, BIA
Bill Vernieu, GCMRC
Peter Wilcock, NRC
Scott Loveless, Solicitor's Office

Recorder: Serena Mankiller, GCMRC Secretary

Convened: 1:00 p.m. **Adjourned:** 3:36 p.m.

MEETING OPENING AND ADMINISTRATIVE ITEMS

Welcome: Robert Winfree, the Chairperson, convened the meeting and welcomed committee members, member alternates, and guests. A quorum was present.

Review of Agenda: The Chairperson reviewed the agenda. No revisions were made and the agenda was approved as presented.

Attendance Sheets: Distributed.

Review of Minutes: No minutes were reviewed.

OTHER ADMINISTRATIVE BUSINESS

NPS Research Proposals & Permit Applications: Robert Winfree stated that no PA Program proposals or permit applications have been received. This may delay some river trips. Please contact Robert Winfree if another set of application materials is needed.

GCD AMP Science Symposium: A larger conference room may be needed for the symposium scheduled for February 16-17, 1999. The Albright Training Center at GCNP holds about 100 people and 75 attendees are confirmed so far.

Recommendation: Robert Winfree will investigate if the Shrine of the Ages auditorium is available for the technical science presentations on February 16-17, 1999. The TWG meeting will be held at the Albright Training Center conference room on February 18, 1999.

Calendar: A suggestion was made to develop a regular calendar which includes due dates for MO's/IN's, budget, management plans, etc.

Recommendation: A calendar will be developed and may be incorporated into the Strategic Plan. This suggestion will be investigated at a later date.

Strategic Planning Literature: Jim Wescoat (NRC) offered to provide the TWG members a list of strategic planning literature they may wish to review.

Recommendation: The GCMRC secretary will send the list to the TWG when it is received from Mr. Wescoat.

Additional TWG Meeting: Barry Gold suggested that the February 23-24, 1999, Annual Plan Workshop/Ad Hoc Group Meeting be changed to an official TWG meeting in order to accomplish

approval of the plan. Approval at that time would facilitate the GCMRC RFP release process deadline of April 1, 1999.

Recommendation: An additional meeting may or may not be necessary. If so, there is time to notice an additional official TWG meeting for February 23-24, 1999.

BHBF Alternative Assessment: An error was identified that at the December 8, 1998, TWG meeting the BHBF Alternative Assessment materials used for the presentation (dated November 23, 1998; 18 pages) were not the current copy. The updated copy had been previously mailed to the TWG, (also dated November 23, 1998; 38 pages). The title is "Draft GCMRC Response to the Glen Canyon TWG (ad-hoc group) Request for Assessment of: A Proposal to Develop a Research Plan to Analyze Resource Responses to Alternative BHBF and Load-Following Releases from Glen Canyon Dam."

Comments Process on Strategic & Annual Plans: The current comments process is cumbersome and does not satisfactorily deal with conflicting comments received from the TWG on GCMRC's strategic and annual plans. It was recognized that when the philosophical and policy issues have been resolved, GCMRC's plans will likely be narrowed to projects, scheduling and expenditures. TWG comments will be officially responded to more easily by GCMRC on a separate document which can be addressed by the TWG.

Recommendation: The TWG shall send any other comments on Chapter 4 of the FY2000 Monitoring and Research Plan to GCMRC (electronically) by January 19, 1999. GCMRC will revise chapter 4, annotate all comments and distribute it to the TWG two weeks prior to the February 23-24 meeting.

REVIEW OF AMWG RECOMMENDATIONS AND ASSIGNMENTS

Scope of AM Program: The TWG desired to clarify and Scott Loveless briefly reviewed some legal issues regarding scope of the AMP. The TWG will clarify the issues to Scott Loveless, deal with the scope issue first, the AMP Strategic Plan second, and other issues as they arise and/or become relevant. He will distribute a written set of responses to the issues paper for the February 4-5, 1999, meeting. The scope issue will be addressed at that meeting. The group will attempt to produce an outline for the strategic plan by the end of the meeting.

Recommendation: The TWG was directed to communicate their questions and policy issues directly to Scott Loveless by January 19, 1999. Scott Loveless will receive chapters 1-3 of the GCMRC 2000-2004 Strategic Plan and comments submitted by the TWG to date.

TWG Chairperson: Robert Winfree reviewed the AMWG's charge of: "*reviewing its structure, evaluating its effectiveness, seeking an outside facilitator and outside rules and deal*

with the issue of Chairmanship compensation, conflict resolution and decision making." WAPA offered a nomination of Gary Burton for the new TWG Chairperson. WAPA does not need to be compensated for this position.

Recommendation: The group shall discuss the issue further at its February 18, 1999, meeting.

BHBF: The TWG was charged to plan a BHBF from 2-4 days, up to 44,000 cfs, in March or April 1999. This task was based on the following AMWG recommendation: *"based on a recommendation from the TWG, to conduct a BHBF in Water Year 99, between March 1 and April 30, from 2-4 days, at a magnitude of up to 44,000 cfs. The Bureau of Reclamation will seek a letter of concurrence from the U.S. Fish and Wildlife Service with respect to all endangered species."*

The TWG was also charged to plan a flood and post-flood experimental treatment for May, June and July 1999. This task was based on the following AMWG recommendation: *"the TWG and the GCMRC be charged with developing a research plan for an experimental flood and post flood experimental flows contingent on the ability to do good science, get funding and complete compliance and following the triggering criteria (established by the GCMRC and approved by TWG and AMWG)." A clarification was made to the motion: "this applies to March through July."* The TWG shall determine if the size and magnitude of the flow will be different than March-April, and whether or not it will plan a specific post flood water regime. If the decision is made for a specific post flood regime, a research plan will be developed. Compliance will be sought accordingly. The group discussed costs involved in development of the research plan, which is currently not budgeted. The overall cost estimate for a science plan is not yet available, and will vary depending on research occurring on the river at the time of a BHBF. Development of that plan will be added to the GCMRC staff's workload, and costs will be borne by the staff salaries budget. This task will not replace but may delay other planned projects.

A suggestion was made to have a BHBF issues discussion meeting during lunch on February 16, 1999. Whichever TWG members want to participate can obtain BHBF input from some of the scientists participating in the symposium.

FY2000 GCMRC Budget: Barry Gold (GCMRC) requested guidance from the TWG on recommended revisions to the FY2000 Monitoring and Research Plan.

Recommendation: The TWG shall submit any additional comments to the GCMRC in electronic format by January 19, 1999. The plan shall be reviewed, discussed and approved at the February 23-24, 1999, Annual Plan workshop meeting.

FY2001 AMP Budget: Bruce Moore stated that the USBR needs an AMP program budget estimate by April 1999, and a bottom line budget in August. The TWG shall begin discussions in

March 1999 and the budget shall go forward for approval by the AMWG at its July 1999 meeting.

Native American Funding for Future AMP Participation: Kurt Dongoske identified an issue that this funding may have impacts to the FY2000 and FY2001 plans. Although the federal agencies were tasked to address the issue with the affected tribal nations, the TWG is likely to address it by default in its regular budget review process.

TCD: The TWG shall submit comments to USBR. A \$200,000 cost was identified in the FY2000 budget for development of the selective withdrawal research plan. A question was raised about how this may affect GCMRC's budget and the FY2000 monitoring and research plan.

GCD Management Objectives and Information Needs: In March 1999 the TWG will do an annual review of the MO's and IN's. The MO's and IN's will be updated, the TWG will ensure that they correlate with the Strategic Plan, and IN's which have been completed by GCMRC will be deleted. GCRG's suggested changes previously submitted will be reviewed. Any new IN's should also be discussed. If selective withdrawal has been implemented for FY2000 these IN's will need to be incorporated and prioritized. A prioritization process will need to be decided on. The Chairperson requested a facilitator for the March 1999 TWG meeting.

Lake Powell Split: The group discussed a plan to accomplish the Lake Powell split of MO's and IN's which was tasked to the TWG by the AMWG in July 1998. Norm Henderson, chairperson of the Lake Powell Split Ad Hoc Group, will prepare a draft and distribute it to the TWG prior to its February 18, 1999, meeting.

Recommendation: The TWG plans to finalize the Lake Powell split of MO's and IN's along with the GCD MO's and IN's annual review process which is scheduled for the TWG meeting in March 1999.

BHBF Assessment/Proposed Action for Programmatic Approach to Compliance: A decision needs to be made on a definition, or a preliminary definition which can be refined as information is gained, and submitted to Tony Morton before April 1999. The group discussed the possibility of factoring in the special flows and fall tributary inputs. To meet the 135 day requirement, the consultation request must be submitted to the USFWS by September 1999.

Recommendation: Tony Morton (USBR) and Bruce Moore will draft a proposed federal action for programmatic compliance and for the May/June/July BHBF and other steady flows. The drafts will be reviewed by the TWG.

WRAP-UP

A table of Action Items and other scheduling information is included at the end of these minutes.

Upcoming Meetings & Proposed Agenda Items:

TWG Strategic Plan Issues Workshop: February 4-5, 1999 (ADWR, Phoenix, AZ)
BHBF Discussions (open meeting): February 16, 1999 (lunch meeting)

TWG: February 18, 1999 (GCNP, Albright Training Center):

- Proposed Action for Programmatic Compliance/BHBF Assessment
- TWG Chairperson Roles & Responsibilities

NRC/GCMRC Preliminary Report Feedback Meeting: February 18, 1999 (to be scheduled)
TWG Annual Plan Workshop: February 23-24, 1999 (ADWR, Phoenix, AZ)

TWG: March 16-17, 1999 (Embassy Suites, Phoenix, AZ):

- MO's & IN's
- Cultural Program Presentations
- Review FY2001 AMP budget

Lake Powell Split Ad Hoc Group: March 16, 1999 (N. Henderson, Chair)
Spill Avoidance Ad Hoc Group: March 17, 1999 (R. Peterson, Chair)

TWG: April 20-21, 1999 (Embassy Suites, Phoenix, AZ)

TWG: July 20, 1999 (1-4 p.m. only - pre-AMWG meeting; Embassy Suites, Phoenix, AZ)
July 22, 1999 (1-4 p.m. only - post-AMWG meeting; Embassy Suites, Phoenix, AZ)

Meeting Evaluation: Positive comments were received from the group during the meeting evaluation. A facilitator and note taker for action items would be useful. Points made should not be personal. Side conversations need to be limited and controlled. Everyone should have a voice in the process. Resolution of issues needs to be more focused by making more formal, specific motions, shown on screen, and printed out for the group. Motions suggested at the AMWG meetings by the TWG should be discussed well in advance and articulated in detail; they should be available on paper or disk and ready for AMWG review and decision. Action items should be added to the end of TWG and AMWG minutes. AMWG minutes should be distributed within two weeks to streamline TWG task planning. Meeting evaluations should be continued. Chairpersons of ad hoc groups are responsible for keeping their group on track. The TWG Chairperson is responsible for contacting them between meetings to check on status of action items. When ad hoc group tasks are completed, the group is automatically disbanded.

Public Comment: All comments voiced were regarding the AMWG meeting held earlier today, but also could apply to the TWG:

1. During the AMWG meeting there were many disruptive side discussions. It was suggested that Steve Magnussen call a five-minute break when members need to caucus.
2. Agendas should include a brief explanation of what action the group should take (e.g., recommendation, action item, approval, commitment of resources or funding). Also, the paper copies should have the documents numbered and collated in order according to agenda items.

Adjournment: There being no further business, the Chairperson adjourned the meeting at 3:36 p.m.

Respectfully submitted,

/s/

Serena Mankiller, GCMRC Secretary

TWG SCHEDULING & ACTION ITEMS CALENDAR
 (Identified at TWG Meeting Jan. 13, 1999)

#	Topic/Issue for Discussion/Decision	Action Items (if applicable)	Action Dead-line	Person/Group Responsible	For Meeting Date
1	Scope/AMP Strategic Plan/Issues -issues need resolution	-draft Strategic Plan or Outline -Submit issues to Scott Loveless by 1/19/99	Feb 4	TWG	Feb 4
			Jan 19		
2	TWG Chairperson/Processes -how TWG is organized, who will be leading the program	Review revised roles & responsibilities	before Feb 18	TWG lead: Bruce Moore	Feb 18 Decision; Update AMWG July 99
	Nominations for 1999 TWG Chair	Nominate Chair		TWG	Feb 23
	Election of 1999 TWG Chair	Elect Chair		TWG	Mar 16 Decision
3	BHBF -draft of proposed federal action for programmatic needed -draft of proposed action for May/June/July BHBF is needed -USFWS concurrence is needed	-USBR will draft proposed actions. -USBR will seek letter of concurrence.	actions due to Tony Morton before April	T. Morton B. Moore	Not stated
	-Load preceding/following issue & alternatives needs more discussion (GCMRC received two comments from TWG so far) -recommend a post-flood regime for 1999	TWG to submit comments to GCMRC on "BHBF Alternatives Assessment"	not stated	TWG	Feb 18
4	GCMRC FY2000 Monitoring and Research Plan -comments process to be refined	-submit comments on Chap 4 to GCMRC by 1/19	Jan 19	TWG	Feb 23
		-Annotated Chap 4 will be dist to TWG 2 weeks prior to 2/23 meeting	Feb 9	GCMRC	
5	TCD EA -comments still needed on the EA	TWG to submit comments to BOR on TCD EA	Mar 31	TWG	N/A
6	Flow Chart/Calendar Need identified for a calendar which includes budget, MO's/IN's, SP, AP, etc.	-Develop flow chart to track assignments. -Incorporate into SP. -Discuss at a later date.	None stated	TBD	TBD

7	FY2000 GCMRC Budget -Barry Gold needs guidance from the TWG re: revisions	<i>-Submit add'l comments to GCMRC electronically</i>	Jan 19	TWG	Feb 23 Decision
		<i>-Review/approve plan</i>	Feb 23		
8	FY2001 AMP Budget -discussions to begin in March	<i>-provide USBR an AMP program budget estimate</i>	Apr	TWG	Apr 20; AMWG July 99 Approval
		<i>-provide USBR bottom line budget</i>	Aug		Aug mtg
9	Lake Powell MO's/IN's Split -Plan needed to accomplish split	<i>-Prepare draft & dist for TWG review</i>	<i>prior to Feb 18 mtg</i>	N.Henderson	Discuss Feb 18; Finalize Mar 99

General Key to Adaptive Management Program Acronyms

ADWR - Arizona Department of Water Resources
AF - Acre Feet
AGFD - Arizona Game & Fish Department
AGU - American Geophysical Union
AM - Adaptive Management
AMP - Adaptive Management Program
AMWG - Glen Canyon Adaptive Management Work Group
AOP - Annual Operating Plan
BA - Biological Assessment
BE - Biological Evaluation
BHBF - Beach/Habitat-Building Flow
BHTF - Beach/Habitat Test Flow
BIA - Bureau of Indian Affairs
BO - Biological Opinion
BOR - Bureau of Reclamation
CAPA - Central Arizona Project Assn.
cfs - cubic feet per second
CRBC - Colorado River Board of California
CRCN - Colorado River Commission of Nevada
CREDA - Colorado River Energy Distributors Assn.
CRSP - Colorado River Storage Project
CWCB - Colorado Water Conservation Board
DBMS - Data Base Management System
DOI - Department of the Interior
EA - Environmental Assessment
EIS - Final Environmental Impact Statement
ESA - Endangered Species Act
FACA - Federal Advisory Committee Act
FEIS - Final Environmental Impact Statement
FRN - Federal Register Notice
FWS - United States Fish & Wildlife Service
FY - Fiscal Year (Oct 1 to Sept 30 each year)
GCD - Glen Canyon Dam
GCMRC - Grand Canyon Monitoring and Research Center
GCNRA - Glen Canyon National Recreation Area
GCPA - Grand Canyon Protection Act
HBC - Humpback Chub (endangered native fish)
HMF - Habitat Maintenance Flow
HPP - Historic Preservation Plan
IEDA - Irrigation and Electrical Districts Association of Arizona
IN - Information Need (stakeholder)
IT - Information Technology (GCMRC program)
KAS - Kanab ambersnail (endangered species list - snail)
KAWG - Kanab Ambersnail Work Group
LCR - Little Colorado River
LCRMCP: Little Colorado River Multi-Species Conservation Program
MAF - Million Acre Feet
MA - Management Action
MO - Management Objective
NAU - Northern Arizona University (Flagstaff, AZ)
NEPA - National Environmental Policy Act
NGS - National Geodetic Survey
NHPA - National Historical Preservation Act
NPS - National Park Service
O&M - Operations & Maintenance (USBR funding)
PA - Programmatic Agreement
PEP - Protocol Evaluation Panel
Powerplant Capacity - 31,000 cfs
Reclamation - United States Bureau of Reclamation
RFP - Request For Proposals
RPA - Reasonable and Prudent Alternative
SAB - Science Advisory Board
SWCA - Steven W. Carothers Associates
TCD - Temperature Control Device (for Glen Canyon Dam water releases)
TCP - Traditional Cultural Property
TES - Threatened and Endangered Species
TWG - Glen Canyon Technical Work Group
UCR - Upper Colorado Region (of the USBR)
UCRC - Upper Colorado River Commission
UDWR - Utah Division of Water Resources
USBR - United States Bureau of Reclamation
USFWS - United States Fish & Wildlife Service
USGS - United States Geological Survey
WAPA - Western Area Power Administration
WY - Water Year (a calendar year)