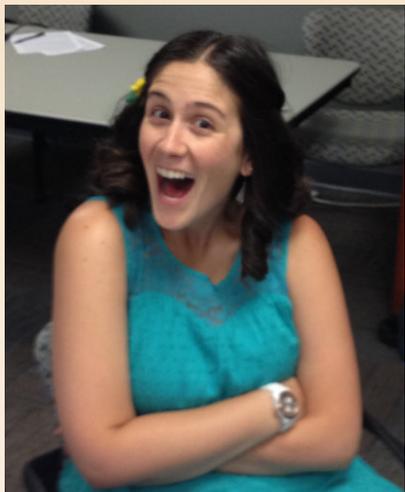




# Administrative History Ad-Hoc Group Update

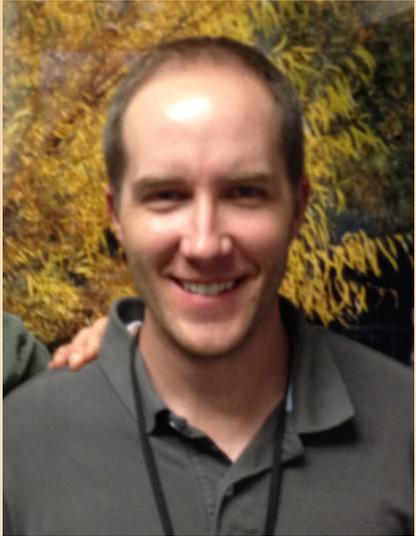
AMWG- August 2014

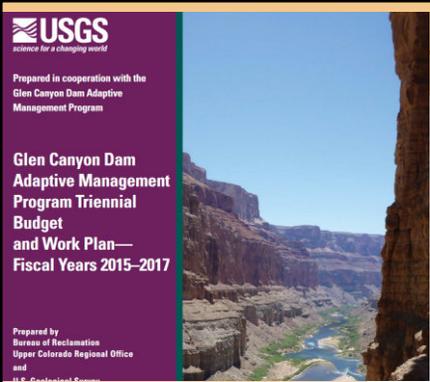






# COLLABORATION





# Budget Item

## A.5. Public Outreach

This budget covers the expenses for BOR staff and the Public Outreach Ad Hoc Group (POAHG) to develop materials for the GCDAMP public outreach efforts.

BOR public affairs staff and the POAHG will work jointly in developing materials to inform and educate the public on the goals and administration of the GCDAMP. They will keep other GCDAMP members advised of progress and expenditures.

Products will include fact sheets, Web site information, tribal outreach materials, video B-roll, special events, conference participation, and other pertinent means of advising the public and program members on the achievements of the GCDAMP. The POAHG will maintain accurate records of payments made against the contracts and will keep BOR staff informed of discrepancies or concerns.

Since 2010, this line item has accumulated approximately \$100,000 in carryover funding as a result of reduced activity. Part of the proposal for the FY15–17 triennial budget is to use \$50,000 of these funds each in FY15 and FY16 to implement the Glen Canyon Dam **Administrative History** Pilot Project. This project would help accomplish the goals of the Public Outreach Ad Hoc Group by providing a better understanding of the history of the GCDAMP, its work, and participants. The pilot project will undertake the following:

- Begin developing oral histories and interviews with AMP historical figures
- Create an annotated bibliography for program related literature
- Create a website and library database for information archival and retrieval
- Create a chronological program overview including participants
- Develop a new participant’s handbook for the AMP.

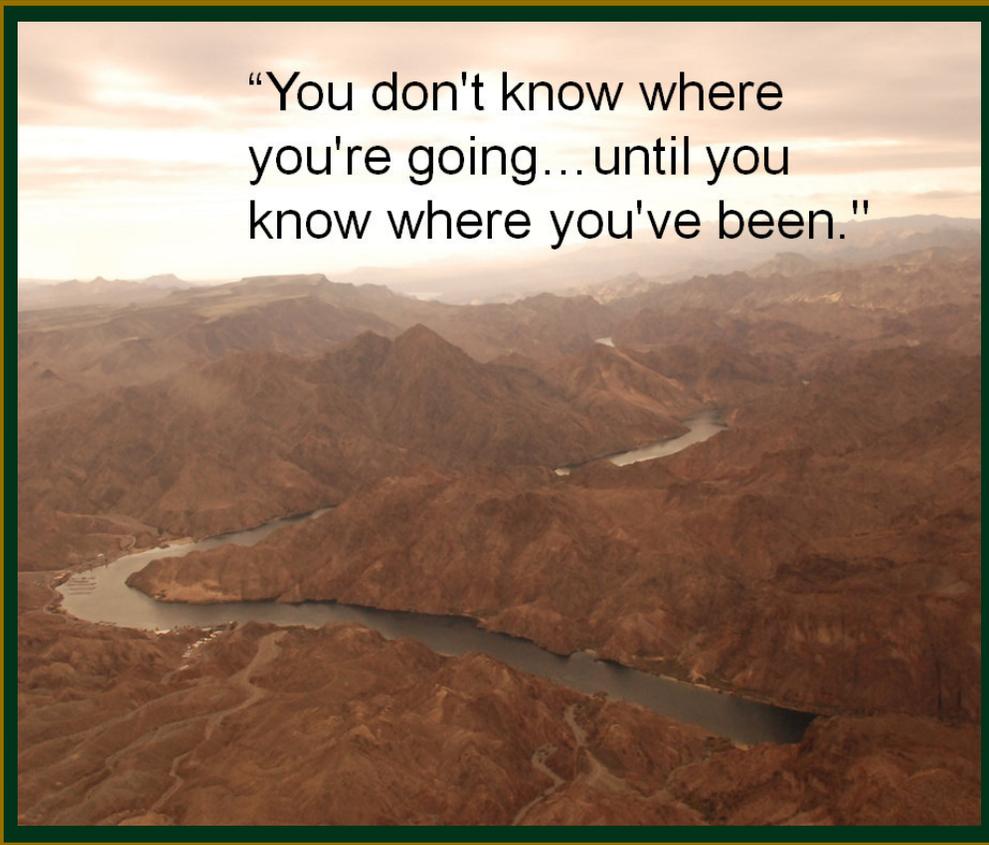
<b>Budget</b>	FY15 = \$63,054	FY16 = \$64,945	FY17 = \$66,893
<b>Admin. History (carryover)</b>	FY15 = \$50,000	FY16 = \$50,000	FY17 = \$0

\*First budget item associated with the AHAHG

# AHAHG Budget Items



"You don't know where you're going... until you know where you've been."



## Admin Pilot Projects

- Assessment of existing web-tools, features, options
  - Histories and interviews
  - Robust library/ archival & retrieval database
  - New Participant's Handbook (aka on-line training)
  - Other
-

# Main Page Re-Design

WWW.GCDAMP.COM



Page Discussion

Read View source View history

Go Search

| Administration | Communication | Learning | Documents | Media | Resources

## Main Page



**"The Grand Canyon is a homeland for some, sacred to many, and a national treasure for all. In honor of past generations, and on behalf of those of the present and future, we envision an ecosystem where the resources and natural processes are in harmony under a stewardship worthy of the Grand Canyon..."**



\*GCDAMP Wiki is to serve as a collaborative resource tool to aid managers and to warehouse the program's historical information and assist stakeholders to learn and share knowledge in a user-friendly format.

## Administrative History Ad-Hoc Group ONLINE TRAINING COURSES

Learner's Kit/ Handbook

COURSE	TRAINING	Date	TITLE Link	CONTACT Name	Notes
Adaptive Management Program Overview 101	AHAHG	2014-00-00	TBD	TBD	NA
Adaptive Management Overview	AHAHG	2014-06-20	TBD	TBD	<a href="#">PAGE</a>
Budget Process 101	AHAHG	2012-00-00	TBD	Shane	NA
Desired Future Conditions 101	AHAHG	2014-00-00	TBD	TBD	NA
Extirpated Species 101	AHAHG	2014-00-00	TBD	TBD	NA
Fish in River	AHAHG	2014-00-00	<a href="#">LINK</a>	Bill- Lisa	NA
Fish Terminology	AHAHG	2014-00-00	TBD	TBD	NA
Flow Releases Understanding	AHAHG	2014-00-00	TBD	TBD	NA
Food-base 101	AHAHG	2014-00-00	TBD	TBD	NA
Gauges & Water Sampling	AHAHG	2014-00-00	TBD	TBD	<a href="#">PAGE</a>
Program Funding 101	AHAHG	2014-00-00	TBD	TBD	NA
Guiding Documents 101	AHAHG	2014-00-00	TBD	TBD	NA
High Flow Experiment Understanding	AHAHG	2014-00-00	TBD	TBD	NA
Hydropower 101	AHAHG	2014-00-00	TBD	Leslie-Shane	NA
Law of the River	AHAHG	2014-00-00	TBD	TBD	NA
Locations & Geography	AHAHG	2014-03-07	<a href="#">LINK</a>	Jason	NA
Pre-Dam Comparisons	AHAHG	2014-06-20	<a href="#">LINK</a>	Rich-Larry	<a href="#">Page</a>
Recreation 101	AHAHG	2014-00-00	TBD	TBD	NA
River Terminology 101	AHAHG	2014-00-00	TBD	TBD	<a href="#">PAGE</a>
Socio-Economics 101	AHAHG	2014-00-00	TBD	TBD	NA
Sport Fishery 101	AHAHG	2014-00-00	TBD	Bill-John	NA
Terrestrial Species 101	AHAHG	2014-00-00	TBD	Larry	NA
Tribal Perspectives 101	AHAHG	2014-00-00	TBD	Mike-Charlie	NA
Water Delivery 101	AHAHG	2008-00-00	TBD	Vineetha	NA
Water Quality 101	AHAHG	2008-00-00	TBD	Don Gross-Warren	NA
Challenges faced by Stakeholders	AHAHG	2014-00-00	TBD	TBD	NA

## Handbook & On-line Training

- Draft Courses
- Collaboration



# WATER DELIVERY

On-Line Training Course  
Contacts:  
Vineetha Kartha



## Glen Canyon Dam Adaptive Management Program LOCATIONS and GEOGRAPHY

101 ON-LINE TRAINING DRAFT

Administrative History Ad-Hoc Group  
(AHAHG) Course Training  
Revised-140307



## FISH OF THE COLORADO RIVER

Colorado River and tributaries between  
Glen Canyon Dam and Lake Mead

ON-LINE TRAINING: DRAFT



## PRE-DAM COMPARISONS

Richard A. Valdez, Ph.D.



## Glen Canyon Dam Adaptive Management Program Tribal Perspectives

101 ON-LINE TRAINING DRAFT

Administrative History Ad-Hoc Group  
(AHAHG) Course Training  
Revised-140520

Socio-Economics  
AMWG Overview

# Training Courses

# Dashboard development-

- Hydrology Information Coordination (USBR-Katrina Grantz)
- Sediment Numbers (GCMRC)
- Synergy with ADWAR efforts

## Background Info

### WATER BOR BCOO WaterOps from JULY 17th

- Projected 2014 April-July unregulated inflow into Lake Powell is **6,990 KAF** or 98% of average.
- Unregulated Inflows into Lake Powell
  - July 900,000 (AF) or 82% of avg (Forecasted)
  - August 450,000 (AF) or 90% of avg (Forecasted)
  - September 350,000 (AF) or 86% of avg (Forecasted)
- Snowpack N/A for this time of year
- Mar- Monthly Release = 505,000 acre feet
- Apr- Monthly Release = 500,000 acre feet
- May- Monthly Release = 510,000 acre feet
- Jun- Monthly Release = 600,000 acre feet
- Water Yr Release: **7.48 MAF**
- Water Yr operating tier: **Mid-Elevation Release Tier**
- HFE Scheduled: No
- Water Quality: Normal
- CRSS: Lake Mead level predicted to be 1085' Mar 2015
- Forecasting
  - % chance of 8.23 for water yr 2014 (Kgrantz TBD)
  - % chance of 7.48 for water yr 2014 (Kgrantz TBD)



Collaboration

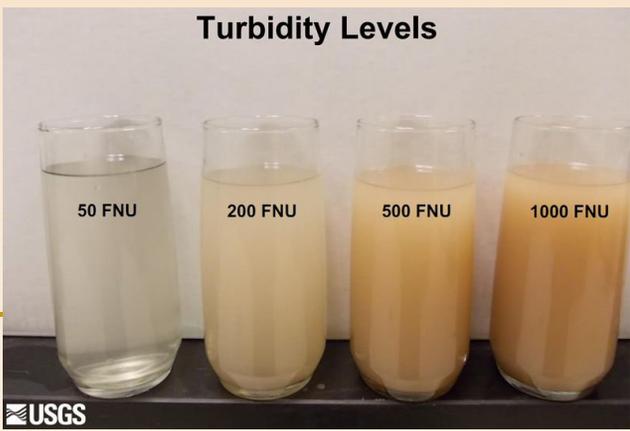
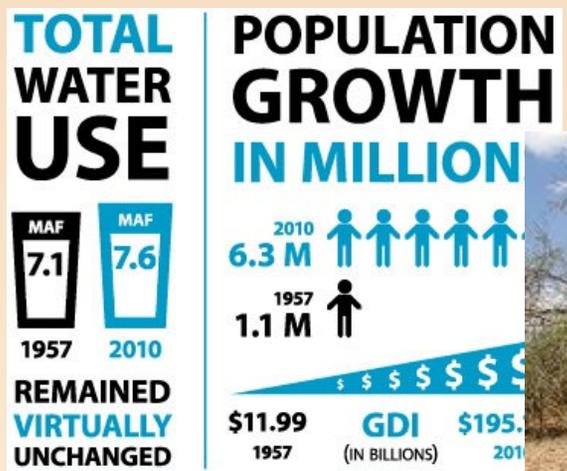
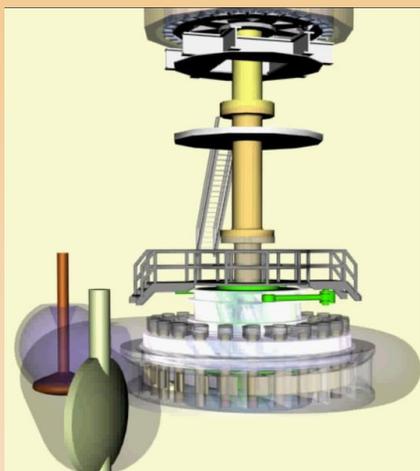


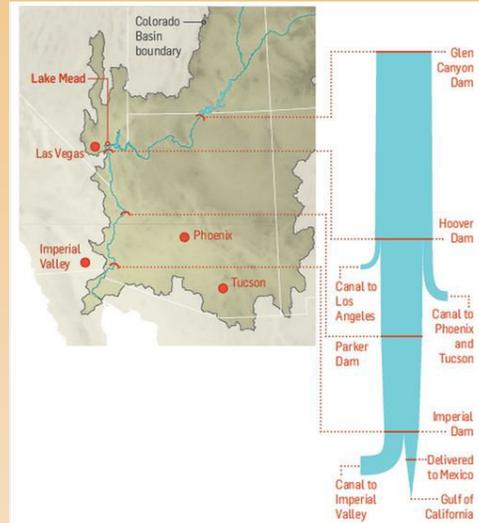
# PICTURES

# VIDEO CLIPS

# GRAPHS

River Reach	Presence of invasive aquatic species by decade			
	1980	1990	2000	2010
Colorado (Rifle to Fish Ladder)				
Colorado (Fish Ladder to Westwater)				
Colorado (Westwater to Green River)				
Dolores (McPhee to San Miguel River)				
Dolores (San Miguel to Colorado River)				
Gunnison (Colorado to Uncompahgre River)				
Green (Flaming Gorge to Yampa River)				
Green (Yampa to White River)				
Green (White to Colorado River)				
White (Kenney to Green River)				
Little Snake (Baggs to Yampa River)				
Yampa (Stagecoach to Craig)				
Yampa (Craig to Green River)				
San Juan (Navajo Dam to Lake Powell)				





Lower Colorado River Diversions Between 2004 and 2013, the average flow of water from the Glen Canyon Dam, just upstream from the Lower Colorado River Basin, was 8.88 million acre-feet.

**Acre Feet Bypassed: change number below to see different effects.**

Number of Acre Feet Bypassed:  AF

Emissions if utilities use gas plants to make up for lost energy from Glen Canyon Dam:

CO2 Emissions	219,111,750 lbs
SOX Emissions	19,305 lbs
NOX Emissions	328,185 lbs

Emissions if utilities use coal plants to make up for lost energy from Glen Canyon Dam:

CO2 Emissions	434,169,450 lbs
SOX Emissions	2,509,650 lbs
NOX Emissions	1,158,300 lbs

**What Do These Numbers Mean?**

CO2 output equals the annual air emissions from this many cars:

Gas plant emissions equal:	19,360 cars driven for a year
Coal plants emissions equal	38,361 cars driven for a year

**How Does the HFE Compare to My Car's CO2 Emissions?**

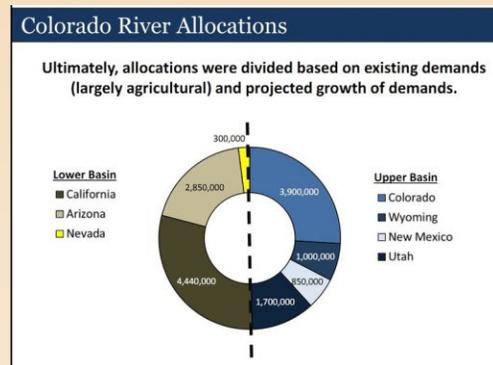
My car's miles per gallon:  MPG

How many miles I drive per day:  miles per day

Equivalent to me driving my car daily for: if a gas plant is used	19,859 years
Equivalent to me driving my car daily for: if a coal plant is used	39,351 years



- LINK: Quagga Pipe 2013-Video Clip- Courtesy of Salt River Project
- Salt River Project
- Subject: Animation of Quagga Mussels reeking havoc on pipes example



**USGS**  
Science for a changing world

Precipitation Variability of the Grand Canyon Region, 1893 through 2009, and Its Implications for Studying Effects of Gullying of Holocene Terraces and Associated Archeological Sites in Grand Canyon, Arizona

Open-File Report 2014-1006

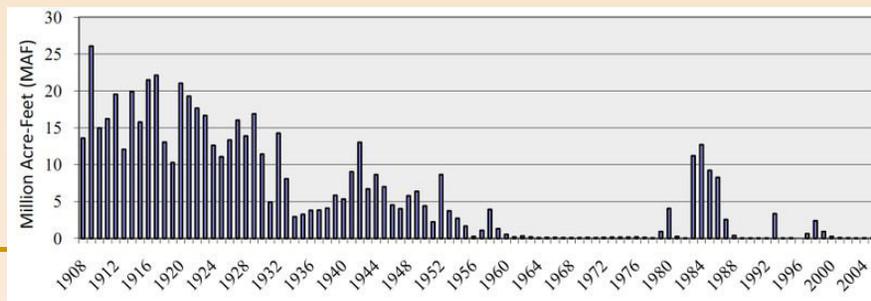
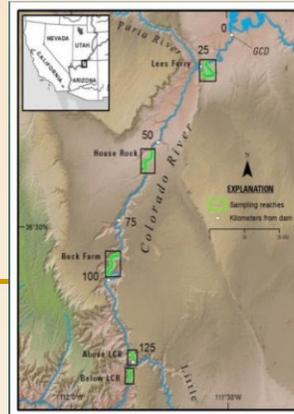
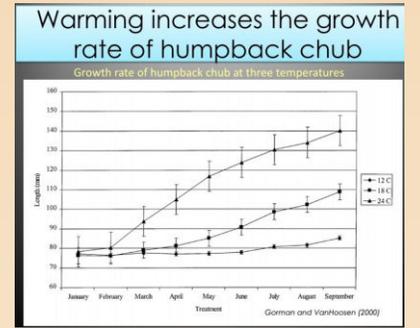
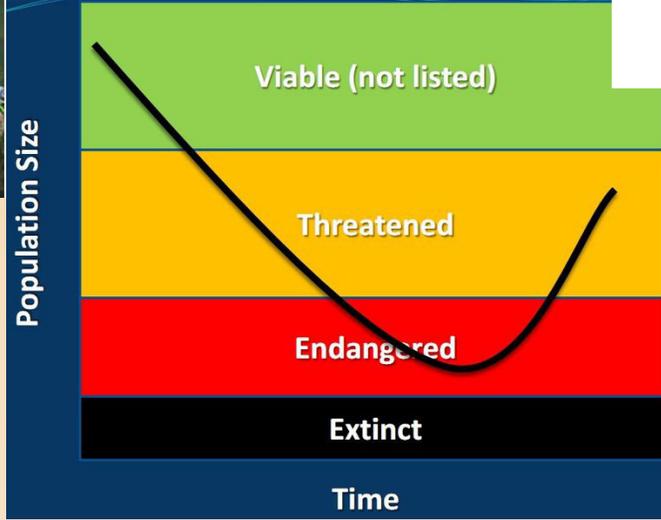


Figure 1. Colorado River Flows to the Delta



**Glen Canyon Dam** is a concrete arch dam on the east of more than 300 miles of unimpaired Colorado River, causing through one of the very natural wonders of the world: the Grand Canyon. Completed in 1963, Glen Canyon was created to store water, control floods and generate hydroelectricity. Plans for dams such as Glen Canyon...

After, Glen Canyon Dam dramatically changed the ecosystem downstream. The dramatic changes lower allowed conditions for the same fishes of the Colorado River — changes reservoir managers are still grappling with today.

**A RIVER CHANGED**  
Those who called the Grand Canyon before the dam was built considered a river that is much different than today. Prior to the construction of Glen Canyon Dam, the Colorado River was dynamic, it was anoxic, its water temperatures were often freezing in winter to above 80° in summer, and the river was filled with silt and gravel, brown sediment to flowing with very clear water. The river was home to fish species, such as the humpback chub and razorback sucker, adapted to the natural environment. To large effectively in natural waters, they developed long antennae, which are thought to help them maintain position in the wild Colorado River. But following construction of...



You need an Arizona fishing license and trout stamp before you wet your line.

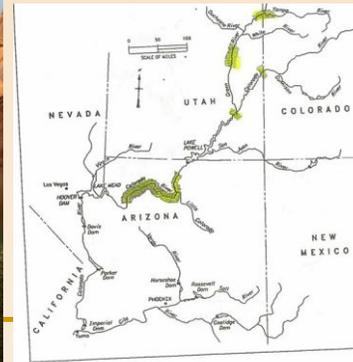


Figure 4. Map of finally designated critical habitat for Humpback Chub.





Special page

| Administration | Communication | Learning | Documents | M

## Ad Hoc Listing

<Admin Section>

### AMWG - Charter AHG (5 members)

Ann Gold	John Shields
Leslie James	Jason Thiriot
Ted Rampton	

### AMWG - Desired Future Conditions AHG (20 members)

Jan Balsom	Ted Kowalski
Shane Capron	Jane Lyder
Lori Caramanian	Jerry Myers
Brian Carey	Clayton Palmer
Marianne Crawford	Ted Rampton
Kurt Dongoske	Larry Riley
Martha Hahn	Randy Seaholm
Chris Hughes	Larry Stevens
Leslie James	Bill Stewart
Sam Jansen	Mike Yeatts

### AMWG - In/Out AHG (4 members)

Leslie James	Randy Seaholm
Clayton Palmer	John Shields

### AMWG - Public Outreach AHG (12 members)

Jan Balsom	Sam Jansen
Ann Gold	Larry Riley
Amy Heuslein	John Shields

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- [Submit News](#)

## AD-HOC GROUP TRACKING FEATURE

- AMWG/TWG
- Easy to track
- Stakeholder onus
- No more guessing

\*Currently in the works

# Announcements & News



Special page

Administration | Communication | Learning | Documents | Media | Post News Article

Navigation

Back to Main Page

Submit News Article to Wiki Admins by using the following form.

Title:

Source:

Link/URL:

Description:

Comments to Admin:

Category:



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  - Permanent link
  - Submit News

## News and Events

2013 ----- 2012 ----- 2011 -----

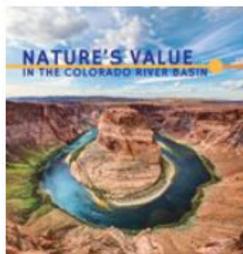
2014



- From: Don Barnett
- Date: 03/21/2014
- Subject: **Larry Walkoviak retires from the Bureau of Reclamation**
- Details: [2014-57 Retirement of Larry Walkoviak](#)



- From: Linda Whetton
- Date: 03/21/2014
- Subject: **Ann Gold retires from the Bureau of Reclamation in Se**
- Details:



- From: Earth Economics

- Committees
- Calendar
- Announcements**
- News Articles
- Tribal Perspectives



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Page **Discussion**

- Administration
- Communication
- Learning
- Committees
- Calendar
- Announcements**
- News Articles
- Tribal Perspectives

Included below are news re Any stakeholder who is inte connectiv to so by u

## Aug 2014

**Bone on bone in the Color** Denver Post (25 Aug 14)  
[http://www.denverpost.com/perspective/ci\\_26300272/bone-bone-colorado-rive](http://www.denverpost.com/perspective/ci_26300272/bone-bone-colorado-rive)

**Lucrative Grand Canyon Contract up for Bid Again** AP (20 Aug 14)  
<http://abcnews.go.com/US/wireStory/lucrative-grand-canyon-contract-bid-2503>

**Public Helps Restore Flows to Critically Depleted Rivers (VIDEO)** National Geographic (20 Aug 14)  
<http://newswatch.nationalgeographic.com/2014/08/19/public-helps-restore-flow>

**Drought fears: Lake Mead hits all-time low** AP News (13 Aug 14)  
<http://www.usatoday.com/videos/news/nation/2014/08/12/13939153/>

**Water authority joins \$11 million pact to conserve Colorado River basin** Las Vegas Sun (01 Aug 14)  
<http://www.lasvegassun.com/news/2014/jul/31/deal-struck-conserve-water-colo>

## Jul 2014

**Leaping out of the lakes: Invasive mussels spread across America** Journal Sentinel (30 Jul 14)  
<http://www.jsonline.com/news/wisconsin/leaping-out-of-the-lakes-invasive-mus>

**Grand Canyon plane crash site designated historic** AP (28 Jul 14)  
<http://bigstory.ap.org/article/grand-canyon-plane-crash-site-designated-historic>

**Fish Only Found In New Mexico And Arizona Gains Endangered Species** KRWG.org (28 Jul 14)  
<http://krwg.org/post/fish-only-found-new-mexico-and-arizona-gains-endangere>

**Changes Coming For Grand Canyon Runners** Running Competitor.com (28 Jul 14)

# WIKI Website Update E-Mail (Weekly)



Navigation

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## Mailing Lists

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You can use this page to sign up for our E-mail Lists.

### WIKI Updates

Receive weekly updates showing recent changes to the WIKI site.

Email Address:

This message was sent with High importance.

From: GCDAMP Wiki <noreply@gcdamp.com>

To: GCDAMP Wiki

Cc:

Subject: Recent Changes

GCDAMP Wiki Pages that have been Changed during the Past 7 Days.  
To View these Changes, you can click on the links in the Page Column.  
The Main Page of the Wiki can be found at <http://gcdamp.com>.

Page	Last Modified By
<a href="#">Portal:GCDAMP Gallery</a>	jthriot 08/18/14 17:30:43
<a href="#">GCDAMP- Drought Page</a>	jthriot 08/22/14 12:59:54
<a href="#">GC-BG-INFO</a>	jthriot 08/21/14 14:41:19
<a href="#">GCDAMP Representatives- History</a>	jthriot 08/21/14 22:39:07
<a href="#">Socioeconomics Background History Page</a>	jthriot 08/20/14 12:39:36
<a href="#">News and Events</a>	jthriot 08/21/14 16:13:40
<a href="#">Quagga</a>	jthriot 08/21/14 16:10:32
<a href="#">GCDAMP- Water Delivery</a>	jthriot 08/21/14 14:28:27
<a href="#">GCDAMP- Socioeconomics Page</a>	jthriot 08/20/14 12:37:46
<a href="#">MAPS Gallery</a>	jthriot 08/20/14 13:20:37
<a href="#">Template:Drop Down:Communication</a>	jthriot 08/20/14 09:37:46
<a href="#">Template:Drop Down:Administration</a>	jthriot 08/20/14 09:38:25
<a href="#">Main Page</a>	jthriot 08/18/14 17:27:24

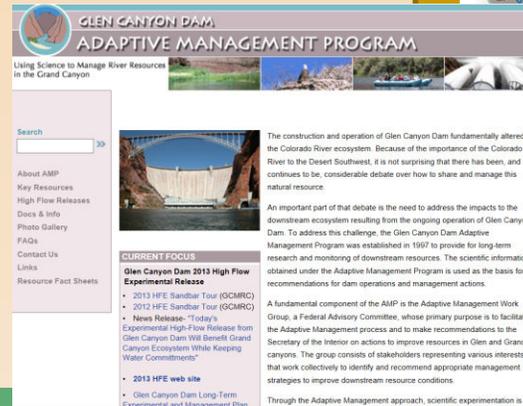
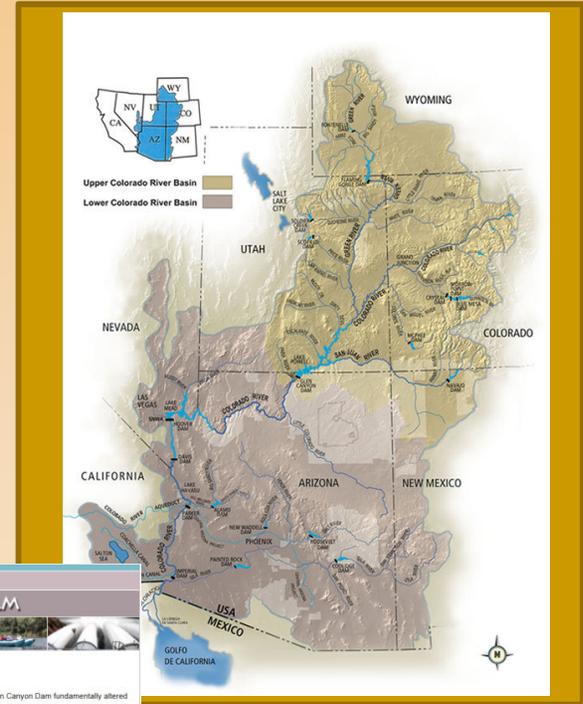
To unsubscribe from this mailing list, please visit <http://gcdamp.com/?title>

# AHAHG and POAHG Connection

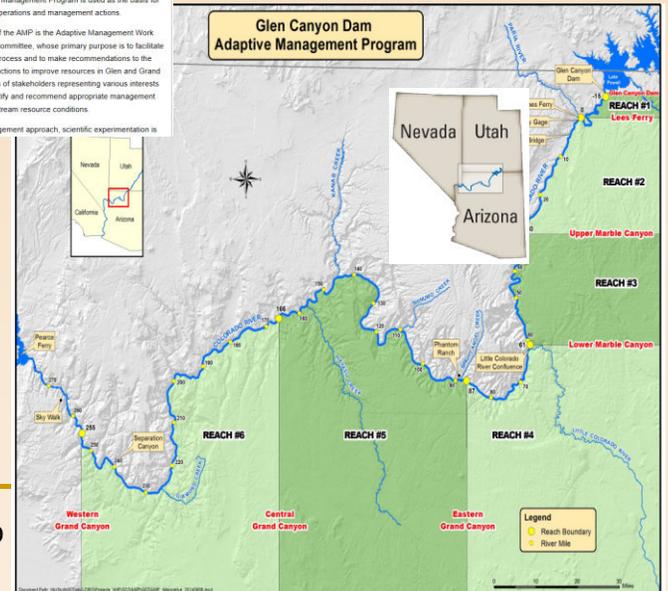
Both in the information arena

- AHAHG gathers and stores information
- POAHG shares program info with others

\*We both tell our Program's story



Multi-Species Conservation Program Outreach Video-clip  
<https://www.youtube.com/watch?v=HLA7LkFxcI8>



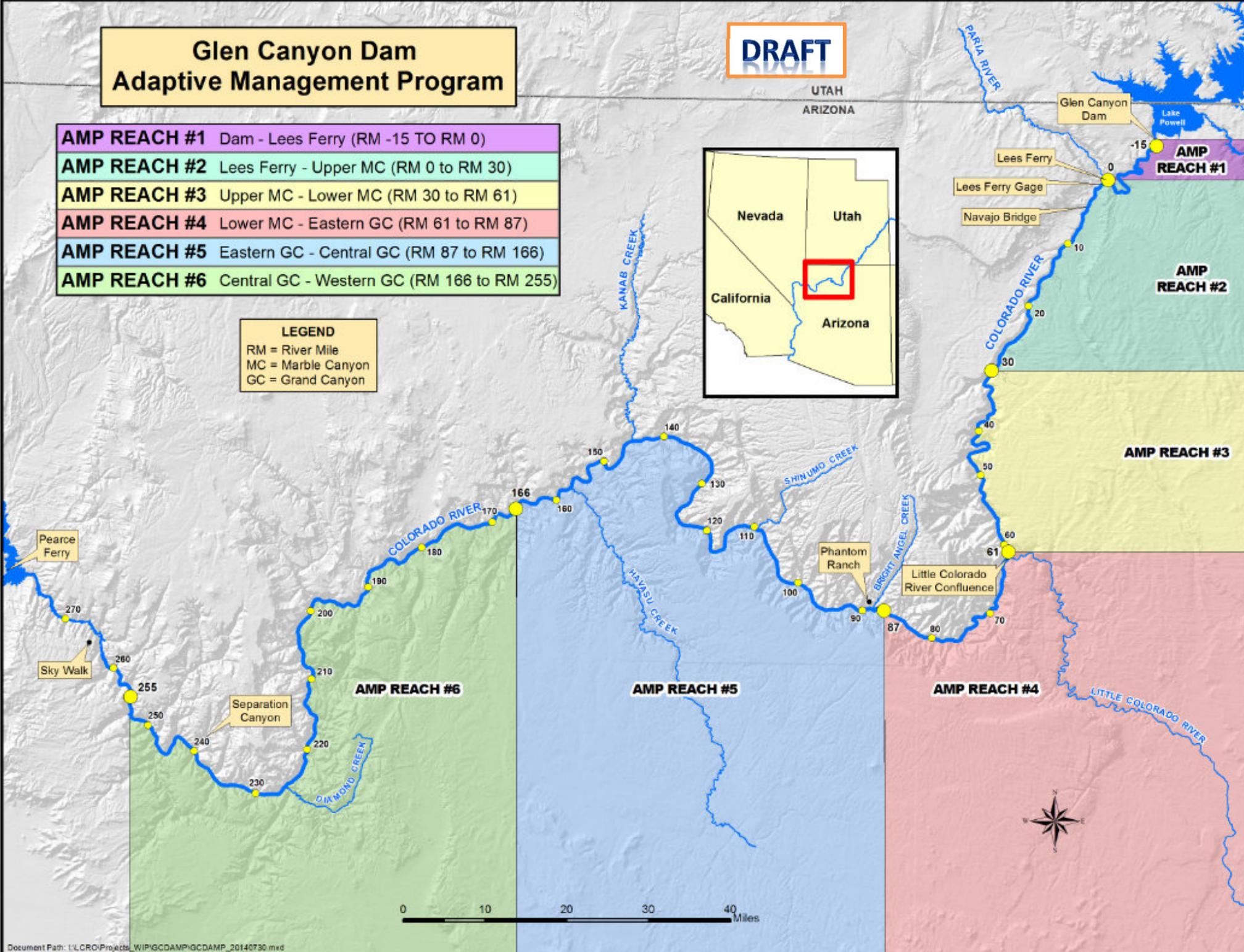
# Glen Canyon Dam Adaptive Management Program

**DRAFT**

UTAH  
ARIZONA

- AMP REACH #1** Dam - Lees Ferry (RM -15 TO RM 0)
- AMP REACH #2** Lees Ferry - Upper MC (RM 0 to RM 30)
- AMP REACH #3** Upper MC - Lower MC (RM 30 to RM 61)
- AMP REACH #4** Lower MC - Eastern GC (RM 61 to RM 87)
- AMP REACH #5** Eastern GC - Central GC (RM 87 to RM 166)
- AMP REACH #6** Central GC - Western GC (RM 166 to RM 255)

**LEGEND**  
 RM = River Mile  
 MC = Marble Canyon  
 GC = Grand Canyon





[WWW.GCDAMP.COM](http://WWW.GCDAMP.COM)

COLLABORATION



# How Can I Help?



## Dive In... Take ownership in knowing that this is a collaborative product

- Take it for a drive. Use it.**
- Submit a stakeholder page- tell us what other stakeholders should know about your agency
- Upload insights, graphs, maps, photos, etc...
- Submit a short bio on yourself
- Provide feedback to the on-line training courses
- Document the chronology of your agencies representatives
- Get the history time-line of who represented your agency (names and dates)
- Report broken links, errors, updates
- Submit news articles
- Make constructive contributions on a specific page
- Be a contributor, make a difference!

