

Glen Canyon Dam Adaptive Management Work Group
Agenda Item Information
May 18, 2011

Agenda Item

Tribal Liaison Report

Action Requested

This is an information item.

Presenter

John Halliday, Tribal Liaison, Glen Canyon Dam Adaptive Management Program, Office of the Assistant Secretary Water and Science

Previous Action Taken

- ✓ By AMWG: In **May 2008**, AMWG passed the following motion: AMWG recommends to the Secretary of the Interior to direct the DOI agencies, in collaboration with the tribes, to commit to establish, beginning in FY09, a tribal liaison position and its functions that will represent tribal concerns and interests in the GCDAMP.
- ✓ By Other: In **August 2010**, John Halliday was introduced at the AMWG meeting as the first Tribal Liaison (pending completion of appropriate paperwork).

Relevant Science

N/A

Update Information

Glen Canyon Dam Adaptive Management Program (GCDAMP) Department of the Interior (DOI) Tribal Consultation Group (Core Team)

The GCDAMP DOI Tribal Consultation Group Core Team began meeting via conference calls following the last AMWG meeting to facilitate the coordination of AMWG tribal consultation. The purpose and mission of the Core Team is to coordinate consultation activities among DOI agencies, tribes and other parties related to the GCDAMP activities, consistent with guidance in the AMP Tribal Consultation Plan and other consultation guidance, to foster good communication, clarify roles and responsibilities for consultation, and improve efficiency of the consultation process for the benefit of federal agencies and tribes.

GCDAMP DOI Tribal Consultation Group Core Team Membership:

Nancy Coulam, Reclamation

Glen Knowles, Reclamation

Ann Gold, Reclamation

Helen Fairley, Grand Canyon Monitoring and Research Center

Janet Cohen, National Park Service

Jan Balsom, National Park Service
Amy L. Heuslein, Bureau of Indian Affairs
Sam Spiller, U.S. Fish and Wildlife Service
Deanna Archuleta, Department of the Interior
John Halliday, Department of the Interior

Tribal consultation on the High Flow Experiment (HFE) Protocol EA and Non-native Fish Control (NNFC) EA Update

Tribal consultation continues on the HFE Protocol EA and NNFC EA. The following consultation meetings and input has occurred to date:

- Las Vegas Paiute Tribe: *No concerns or comments about this project*
- Moapa Band of Paiutes: *No concerns or comments about this project*
- Paiute Indian Tribe of Utah (PITU): *Meeting held on December 13th 2010*
- Hualapai Tribe: *Meeting held on Jan 8th 2011*
- Yavapai-Apache Nation: *Meeting held on January 12th, 2011*
- Kaibab Band of Paiute Indians: *Meeting held on January 20th 2011*
- Pueblo of Zuni: *Meeting held on January 25th 2011 a follow up meeting was held March 16th 1pm with Zuni Council Leadership and Zuni Religious Leaders*
- Navajo Nation: *Meeting held on January 26th 2011*
- Hopi Tribe: *- Meeting held on January 27th 2011*
- Havasupai: *- Meeting held on Feb 18th, 2011*

The primary issues identified during these consultations are as follows:

- Economic Impact
- Sufficient notice of HFEs
- Sacred Site Protection
- Traditional Cultural Properties Protection
- Traditional Cultural Knowledge Inclusion
- Consultation Policy Implementation

FY2011-2012 AMP Projects Tribal Consultation Table

To facilitate tribal consultation, the Core Team has created a table of projects funded through the Glen Canyon Dam Adaptive Management Program that may require tribal consultation in FY2011-2012. The Core Team developed the table to identify AMP projects that may be of interest to tribes, solicit tribal input, and help determine if government to government tribal consultation is necessary. The table consolidates interagency information in one place for tribes about AMWG projects that they may wish to engage in consultation on, and provides tribes with contact information for each project. This one stop information collaborative document will provide tribes and federal agencies with an effective tool prioritizing tribal consultation efforts.

DOI Draft Tribal Consultation Policy

Tribal Liaison Report, continued

Secretary Salazar released a draft DOI Tribal Consultation Policy on January 12, 2011 that was also accompanied by a press release. The document was distributed to the AMP Tribes by John Halliday on January 18, 2011. DOI requested comments from American Indian tribes by March 14, 2011, a sixty day comment period, and stated that the Department intends to conduct a public review period, following revisions to the policy, later in 2011. The policy is still being revised by DOI and will be released to the public for a 60-day comment period later this year.

The draft DOI Tribal Consultation Policy may be downloaded online at:
<http://www.doi.gov/governments/loader.cfm?csModule=security/getfile&pageid=119393>

Table 1. Summary of FY2011-2012 Projects funded through the Glen Canyon Dam Adaptive Management Program that require or potentially may require Tribal Consultation in FY2011-2012. Note: All projects in Table 1 are funded by Reclamation. Agencies responsible for issuing permits to complete the field work vary depending on location and scope of the project. Permitting may involve one or more of the following entities: US Fish and Wildlife Service, Grand Canyon National Park, Hualapai Tribe, Navajo Nation, and/or State of Arizona.

Brief Project Title	Project No. (from FY11-12 Work Plan)	Project Contact to obtain more information	Proposed Project Start Date	Proposed Project End Date	Project Purpose & Primary Objectives	Field Work Locations	Summary of Field Activities	Consultation Status: previous meetings, identified issues	Proposed Actions to respond to tribal issues/concerns
Nonnative Fish Control EA	C.1	Reclamation: Glen Knowles 801-524-3781	Spring 2010. Public draft distributed January 28, 2011	Public comments due Feb. 28. Final decision: March 2011	Define alternatives to mechanical removal of trout and other non-native fishes at LCR and address tribal concerns with mechanical removal; achieve NEPA compliance	TBD through NEPA process. Proposed action is removal at LCR confluence and Paria River to Badger	TBD through NEPA process. Proposed action is up to 6 LCR and 10 PBR removal trips. A science plan is being developed to guide implementation.	Tribes have expressed concern with the taking of life, w/out beneficial use; Reclamation is in process of consulting with all tribes; Hualapai and Zuni are cooperating agencies.	Reclamation is working to define alternatives to mechanical removal and propose potential mitigation measures that may address tribal concerns re: impacts to LCR & taking of life. Meeting w/ tribes on 08/20/10.
HFE Protocol EA	C.1	Reclamation: Glen Knowles 801-524-3781	Spring 2010. Public draft distributed January 18, 2011.	Public comments due Feb. 14. Final decision: March 2011	Define standard protocol for implementing high flow experiments; achieve NEPA compliance	Draft science plan in draft EA outlines proposed field activities.	See draft science plan and FY11 work plan for description of monitoring projects	Hualapai Tribe has expressed concern re: impacts of high flows/new sand bars on Lake Mead tour boat operators	Reclamation is in process of consulting with all tribes; Tribes have been invited to participate in EA process.
Long Term Experiment and Management Plan EIS	C.1	Reclamation: Glen Knowles 801-524-3781 And National Park Service Martha Hahn 928-638-7759:	February 11, 2011	TBD	Define future long term experiment & associated management actions; achieve NEPA compliance	TBD through NEPA process	TBD through NEPA process	Consultation has not been initiated.	No action as yet.
Integrated Tribal Monitoring Projects	C.5	Reclamation: Glen Knowles 801-524-3781	Ongoing	Ongoing	Tribes monitor resources of tribal concern & provide tribal perspectives on resource conditions	Various locations throughout the river corridor	Various locations. Each tribe applies its own protocols and perspectives to monitoring resources of specific concern	Per GCMRC tribal meeting 7/15/10: Tribes are concerned that their monitoring reports are not shared with other DOI agencies and TWG. Tribes would like their monitoring results reported to TWG/ & AMWG and considered by AMWG & DOI in decision-making.	Reclamation will distribute tribal monitoring reports to GCMRC and other DOI agencies. Reclamation will work with TWG chair to ensure that tribal monitoring results are reported directly to TWG in the future. GCMRC proposes to incorporate a chapter with tribal perspectives in SCORE report.
Programmatic Agreement for Cultural Resources	D.1	Reclamation: Glen Knowles 801-524-3781. NPS: Jan Balsom 928-638-7758	Ongoing	Ongoing	Define S106 program for addressing dam effects and achieving compliance with NHPA	TBD	TBD	Tribes are concerned with current status of the PA and how Reclamation intends to fulfill its compliance obligations in the interim period.	Reclamation met with tribes and other PA signatories on January 31, 2011. We discussed proposed changes to the PA and action items for 106 compliance in 2011.

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Treatment Plan Implementation	D.2	Reclamation: Glen Knowles 801-524-3781. NPS: Jan Balsom 928-638-7758	Ongoing	Ongoing	Describe S106 plan for mitigating dam op effects, addressing tribal interests, and achieving compliance with NHPA	TBD	TBD	Reclamation formally consulted with the 5 AMP tribes in spring 2010 about the 2010 plan. Tribes expressed concern about: the focus on excavation as the only mitigation action; lack of tribal involvement in developing research questions and methods; lack of sufficient tribal involvement in planning alternative mitigation options. Navajo and Hualapai oppose excavation; Zuni and Hopi support excavation w/ direct tribal involvement in planning/ implementation	Reclamation will co-host a workshop with GCMRC in 2011 to explore options for mitigating effects from dam ops, other than or in addition to excavation, as well as options for incorporating tribal perspectives into the future treatment plan and future monitoring plans.
Tribal AMP participation	E.1	Reclamation: Glen Knowles 801-524-3781	Ongoing	Ongoing	Funding supports tribal participation in the GCD AMP	N/A		Tribes would like to see funding adjusted w/ CPI like other AMP projects.	This is a departmental issue that can not be resolved at the agency level.
Aquatic Food Base	BIO 1.R1.11-12	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379	April 2010	Sep. 2012(6 trips per calendar yr)	Project monitors key food items to track overall aquatic food availability to determine if humpback chub and other native fish are food limited. In FY 2012, algae and invertebrate production will be monitored monthly at Lees Ferry and Diamond Creek and monitoring will be expanded to include the confluence with the Little Colorado River, where the largest population of humpback chub in the basin is found.	Lees Ferry reach and Diamond Creek vicinity	Monitor organisms on substrate and in drift with samplers and nets	Per GCMRC tribal meeting on 7/15/10: No specific concerns identified.	N/A
Monitor lower 13.6 km LCR	BIO 2.R1.11-12	GCRMC: Biology Program Manager Scott Vanderkooi 928-556-7379, USFWS: Pam Sponholtz 928-226-1289x113	April 2010	Sep. 2012	Through a cooperative agreement with USGS, USFWS conducts mark-recapture and monitoring activities in the lower 13.57 km of the Little Colorado River. The primary objective is to monitor for annual changes in the spring and fall abundances of humpback chub ≥ 150 and ≥ 200 mm, respectively. Data are used to generate and update the Age-Structured-Mark-Recapture (ASMR) model developed at GCMRC.	LCR - lower 13.6 km (4 trips per calendar year)	Capture fish in hoop nets, insert PIT tags,	Per GCMRC tribal meeting on 7/15/10: General concern with LCR activities; specific concern with taking of life.	GCMRC is currently working on developing remote pit tag reader technology and is analyzing LCR monitoring data to explore implications of reducing current level of field effort. Incidental Nonnative fish removal has been discontinued pending Nonnative EA results.

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Monitor lower 1200 m LCR	BIO 2.R2.11-12	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379 & USFWS Pam Sponholtz 928-226-1289x113	May 2010	June 2012	Through a cooperative agreement with USGS, AZ Game & Fish conducts month-long sampling of native fishes in the lower 1200 m of the LCR to provide an additional measurement of HBC and other native fish relative abundance, condition, community structure, etc. Data are used to annually assess relative abundances of fishes in the lower LCR.	LCR - lower 1200 m (1 trip each calendar year in May-June timeframe)	Capture fish in hoop nets, insert PIT tags	Per GCMRC tribal meeting on 7/15/10: General concern with LCR activities; specific concern with taking of life.	GCMRC is currently exploring development of remote pit tag reader technology and analyzing LCR monitoring data to explore implications of reducing current level of field effort. Incidental Nonnative fish removal has been discontinued pending Nonnative EA results.
HBC translocation and monitoring Chute Falls	BIO 2.M3.11-12	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379 & USFWS: Pam Sponholtz 928-226-1289x113	July 2010	Sept. 2012	Through a cooperative agreement with USGS, USFWS leads an effort to translocate and monitor humpback chub above Chute Falls and in a short stretch of the Little Colorado River (13.57 to 14.1 km). Translocations are conducted for conservation purposes. Monitoring data are used in the Age-Structured-Mark-Recapture model developed by GCMRC.	LCR- Above Atomizer and Chute Falls (3 trips per calendar year)	Capture young HBC near mouth of LCR, move by helicopter above falls; net captures for monitoring	Per GCMRC tribal meeting on 7/15/10: General concern with LCR activities; specific concern with taking of life.	GCMRC proposed reducing translocation and monitoring to every other year, but TWG did not concur. GCMRC is currently exploring remote pit tag reader technology and analyzing LCR monitoring data to explore implications of reducing current level of field efforts in LCR. Incidental Nonnative fish removal has been discontinued pending Nonnative EA results.
Monitor mainstem fishes	BIO 2.M4.11-12	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379	Feb. 2010	Sep. 2012	Through a cooperative agreement with USGS, the Arizona Game and Fish Department leads a monitoring effort of native and nonnative fish abundance and distribution in Marble and Grand Canyons.	Mainstem of the Colorado River from Lees Ferry to Diamond Cr. (4 trips per calendar year)	March & April electrofishing; Sept.: trammel nets near HBC aggregations; Oct.: seines, nets, backpack electroshocking	Per GCMRC tribal meeting on 7/15/10: General concern with electrofishing and potential collateral damage to other aquatic life.	GCMRC is currently analyzing LCR and mainstem monitoring data to explore implications of reducing current level of field effort.
Remote PIT tag reading	BIO 2.R13.11-12	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379	Feb. 2010	Sep. 2012	Project evaluates new tagging method that may minimize handling of fish but allow measurement of fish movement, particularly juvenile humpback chub, in the Little Colorado River and its confluence with the mainstem.	LCR just below Boulders Camp; Relay station may be installed on rim near helicopter landing pad, if permitted by Navajo Tribe	Install and maintain antennas; download data from associated computers (3 trips per calendar year)	Per GCMRC tribal meeting on 7/15/10: General concern with LCR activities; Hopi support this project if it reduces level of LCR activity.	GCMRC is exploring this technology in part to potentially reduce level of field effort. Also to better understand fish movements in and out the LCR.
Near Shore Ecology	BIO 2.R15.11-12	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379	July 2010	Oct. 2011	Through a cooperative agreement with USGS, the University of Florida is evaluating 1) whether steadier flows during fall increase survival rates of juvenile native and nonnative fish and 2) to what extent physical habitat structures, such as sandbars and backwaters, are used by young fish. This	Primary: Colorado River RM 61-64; Secondary: LCR (Coyote Camp to COR) (4 trips per year)	Colorado River: fish captured with boat-mounted electrofishing, seining, and hoop nets, then tagged; LCR: fish captured with hoop nets, seines then tagged; also propose to	Reclamation sent letters to Tribes June 15 2010, inquiring about need for consultation re: proposed otolith work. No responses were received. Per GCMRC tribal meeting on 7/15/10:	In FY11, GCMRC will compile existing data on potential incidental impacts of electro-fishing on various forms of aquatic life (frogs, snakes, etc.). GCMRC and BOR are currently in the process of reviewing NSE results to determine if continuing

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					study supports the experimental flows described in the Biological Opinion and implemented during 2008-12.		sacrifice <200 HBC <200 mm for movement study using otoliths	General concern with LCR activities; general concern with electrofishing and potential collateral damage to other aquatic life; Specific concern with taking of HBC life for otolith study.	the project in its current form is warranted. Project may be redesigned in FY11-12 to address some new or additional questions.
NEW Project: Mainstem Juvenile HBC monitoring	NEW	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379	Oct 1, 2011	Sept. 30, 2016	This project will replace and extend the field effort of the near shore ecology project (BIO 2.R15.12) to determine juvenile humpback chub survival in the mainstem below the confluence with the Little Colorado River. Field work will also include sampling in Marble Canyon for rainbow trout marked in Lees Ferry associated with project BIO 2.E18.12.	Mainstem of Colorado River in Marble Canyon (River Mile 8-62) and 5 mile reach immediately downstream of Little Co River (4 trips per year)	Nighttime electrofishing; tagging fish	This is a new project that will start in FY2012. It is similar to the Nearshore Ecology project, but also includes fish monitoring in Marble Canyon. Tribal consultation specific to this new project has not yet occurred.	Mo specific issues have been identified.
Monitor Lees Ferry fishes	BIO 4.M2.11-12	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379	April 2010	Sep. 2012	Through a cooperative agreement with USGS, the Arizona Game and Fish Department leads a monitoring effort of nonnative rainbow trout and whirling disease in the Lees Ferry reach.	Glen Canyon reach, above Lees Ferry (4 trips per calendar yr)	Nighttime electrofishing; tagging fish	Per GCMRC tribal meeting 7/15/10: General concern with electrofishing and potential collateral damage to other aquatic life	GCMRC will be compiling existing data on potential incidental impacts of electro-fishing on various forms of aquatic life.
New Project:: Evaluation of Trout Movement, Natal Origins, and Alternatives for Controlling Trout	BIO 2.E18.11-12	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379	Nov. 2010	June 2012	Project collects information on the movement of rainbow trout between the Paria River (RM 1) and Badger Rapid (RM 8) to determine the feasibility of removing rainbow trout from this reach as an alternative to removal from the area near the confluence with the Little Colorado River.	Above Lees Ferry down to Badger Rapid (2 trips per calendar yr)	Monitor trout between Paria R. and Badger Rapid with nighttime electrofishing; tagging fish to determine movement. Additional activities may be proposed as part on the Non Native Fish Control science plan (currently under development)	Per GCMRC tribal meeting on 7/15/10: General concern with electrofishing and potential collateral damage to other aquatic life; specific concern with taking of life. Consultation has occurred in conjunction with the EA for Non-native Removal;	GCMRC will compile existing data on potential impacts of electro-fishing on aquatic life. This new study (BIO 2.E18) is being initiated largely in response to tribal concerns about killing trout near the LCR and is designed to improve knowledge about trout natal origins, downstream movement, and potential for removing trout closer to their primary source.
Monitoring Kanab Ambersnail habitat	BIO 5.R1.11	GCMRC: Biology Program Manager Scott Vanderkooi & AZGFD (Jeff Sorenson) 928-556-7379	April 2010	September 2012	Through a cooperative agreement with USGS, the Arizona Game and Fish Department leads monitoring of abundance and distribution of the endangered Kanab ambersnail and its habitat at Vaseys Paradise.	Vasey's Paradise RM 31.5. Camera set-up across river monitors trends in total KAS habitat area	Spring (April) and fall (Sept.) sampling trips. Sample for presence of snail in vegetation plots. Measure areal extent of vegetation with survey methods -fall	Per GCMRC tribal meeting 7/15/10: Zuni expressed interest in possible additional monitoring of springs and associated organisms.	GCMRC is proposing to expand riparian monitoring effort as funding will allow.
Vegetation	BIO	GCMRC:	February	September	Project evaluates the areal extent of	Stratified random	Identify plants w/in a 50 m	Per GCMRC tribal meeting	GCMRC has proposed re-

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mapping and transects	6.M1/2.11-12	Biology Program Manager Scott Vanderkooi 928-556-7379	2011 – Field trip in September 2011.	2012	riparian vegetation classes (woody and marsh/wetland vegetation) among major habitat zones in the Colorado River ecosystem, to monitor how they change over time in response to dam operations. Project will map vegetated area throughout the river corridor, quantify veg. cover, presence/ absence/dominant vegetation among stage-elevation zones (fluctuating zone to power plant capacity)	sites (to be selected) tied to geomorphic features (debris fans, channel margins, sandbar/eddy complexes).	quadrat w/in stage elevation zones & assign a cover category to each species (,1%, 1-5%, 5-25%, 25-50%, 50-75%, 75-95%, >95%). Four zones/sites.	on 7/15/10: Hopi & Hualapai expressed interest in seeing additional monitoring of riparian zone and associated birds, reptiles, small mammals	instituting monitoring of bugs and birds in the riparian zone as funding allows in direct response to this concern.
Water Quality Monitoring of Lake Powell and Glen Canyon Dam Tailwaters	PHY7.R11-12	GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379	Ongoing	Sep. 2012	Project monitors water quality in Lake Powell and immediately downstream of Glen Canyon Dam	Various locations on Lake Powell and immediately below GCD	Monthly forebay and tailwater sampling, plus quarterly reservoir sampling, and continuous tailwater sampling for select parameters	Per GCMRC tribal meeting on 7/15/10: no issues identified	N/A
Downstream water quality and sediment	PHY 7.M1.11-12	GCMRC: Paul Grams 928-556-7458	Oct. 2010 (field work in Feb. and Aug. each year)	Sep. 2012	Project monitors water quality (suspended sediment, turbidity, streamflow, temperature, dissolved oxygen, pH, salinity) at six locations along the Colorado River between Glen Canyon Dam and Lake Mead. Data are used to link dam operations to downstream resource conditions and track the sand budget for scheduling high flows.	RM 30, RM 61, RM 87, RM 166, RM 225, mouth of Kanab Creek, Mouth of Havasu Creek, other small tributaries	Measuring stream flow, collect water and sed. samples, maintain existing equipment at RM 30,61,87,166,225; collect rainfall data at established rain gages	Per GCMRC tribal meeting on 7/15/10: no specific concerns identified.	N/A
SedTrend Channel Mapping	PHY 8.M2.11-12	GCMRC: Paul Grams 928-556-7458	Oct. 2010 (field work to occur betw. March and May each yr)	Sep. 2012	Project monitors long-term changes in sand storage through repeat bathymetric and total station mapping of long reaches of the Colorado River channel to evaluate effectiveness of dam operations at conserving sediment in the channel. Data is also used to determine if high flows achieve resource objectives related to sand bars and sediment storage.	RM 61 to RM 87 in FY2012; either RM 166 to RM 225 OR RM 30-61 will be the focus in FY 2012.	Proposal is to survey the bed of the river, and the eddies and channel up to the 45K cfs level, using a combination of bathymetry (boat mounted sonar instruments) for aquatic zone and traditional total station survey methods for the terrestrial zone.	Per GCMRC tribal meeting on 7/15/10: potential concern with mapping left bank near Salt Mine (reach between LCR to RM65). Tribes were contacted by Grand Canyon National Park via letter in January 2011; no concerns were expressed	GCMRC worked with NPS to initiate and complete tribal consultation to identify and resolve any issues associated with FY2011 work in this reach.
SedTrend Sandbar surveys	PHY 8.M2.11-12	GCMRC: Paul Grams 928-556-7458	Oct. 2010 (field work in Sep-Oct every other year)	Sep. 2012	This project monitors ~45 sandbar study sites throughout the river corridor betw Lees Ferry and Diamond Creek using repeat total station surveys (This is part of the sed Trend Sand Storage project.)	Approx. 45 sand bar sites	Survey sandbar topography using total station survey methods between 5K-45K cfs level	Per GCMRC tribal meeting on 7/15/10: no specific concerns identified.	N/A

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Modeling support for sediment and temperature models	PHY 7.R3	GCMRC: Paul Grams 928-556-7458	Oct. 2010	Sep. 2012	Project creates models to predict the sand budget for use in scheduling high flows. New work in FY 2012 will be directed toward development of an eddy-deposition model to improve the ability to connect sand-budget predictions provided by the current mainstem model with sandbar response. This project may also create tools to predict mainstem water temperatures.	No field work planned at this time	No fieldwork is planned at this time; however, future field work may occur at select eddies in the mainstem (TBD)	Per GCMRC tribal meeting on 7/15/10: no specific concerns identified.	N/A
Control network	SUP 12.S3.11-12	GCMRC: Paul Grams 928-556-7458	Oct. 2010	Sep. 2012	Project provides spatial reference and survey support to various GCMRC projects. Under the proposed budget scenario for FY 2012, support will be provided mainly to PHY 8.M2.12. Support is also provided to campsite monitoring, Kanab ambersnail monitoring, aquatic food base, and remote sensing projects. This project also establishes new control points for monitoring projects	Throughout the mainstem river corridor	Occupy established control points with survey equipment; establish new control points (install small bolts) as needed	Per GCMRC tribal meeting on 7/15/10: no specific concerns identified.	N/A
Campsite area monitoring	REC 9.R1.11-12	GCMRC: Helen Fairley & Paul Grams 928-556-7285	October 2011	Sep. 2012	Project measures changes in space available for camping by conducting annual surveys of a subset of sandbars between Lees Ferry and Diamond Creek. These surveys are conducted concurrently with the sandbar surveys of project PHY 8.M2.	Approx. 35 sand bar sites throughout the mainstem river corridor	Survey campable area at sand bars using total station survey methods	Per GCMRC tribal meeting on 7/15/10: no specific concerns identified.	N/A
Analyze Campsite Atlas Data	REC 9.R3. 11-12	GCMRC: Helen Fairley, 928-556-7285. Linda Jalbert 928-638-7909	Oct. 2010	Sep. 2012	Project compiles and analyzes current and historical campsite data to track changes in overall campsite size, distribution, and quality on a system-wide basis over decadal time scales.	None planned in FY11-12	None planned in FY11-12. Work in FY11-12 focuses on analyzing data to quantify rate of veg. encroachment on camps	Per GCMRC tribal meeting on 7/15/10: no specific concerns identified.	N/A
Evaluate Rec Values and Visitor Exp. Quality in Glen Canyon Reach	REC 9.R4.11-12	GCMRC: Helen Fairley 928-556-7285	Oct. 2010	Sep. 2012	Project will collect survey information from anglers, boaters, and other visitors to access quality of visitor experience in the Glen Canyon to Badger Rapids reach (River miles 115 to 8) under varying flow regimes	Glen Canyon Dam to Badger Rapids and Lees Ferry launch ramp area	Data will be collected from visitors at Lees Ferry launch ramp, Paria Beach and at Jackass Canyon trail head or Badger Rapids beach w/ standardized interview questions; some focus group interviews may also be conducted.	Per GCMRC tribal meeting on 7/15/10: no specific concerns other than to ensure that tribal perspectives are included in the survey.	GCMRC is proposing to expand survey toto include anglers at Paria and Badger beaches specifically to includee tribal perspectives within the scope of this project.

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Cultural Resource Monitoring R&D Phase II	CUL 11.R1.11 -12	GCMRC: Helen Fairley 928-556-7285	Oct. 2010	Sep. 2012	This project quantifies and tracks trends in archaeological site conditions using LiDAR to measure indicators of stability and physical change that can be linked to potential effects of dam operations. Project includes weather monitoring at 9 sites. In FY2011, if project is not permitted by Grand Canyon NP, focus will be on Phase I data analysis and reporting, and in FY 2012, monitoring may be limited to the Glen Canyon Reach upstream of Lees Ferry.	Weather stations at RM 24.5L, 57R, 60R, 66L,70L,135L, 203R and 223R; Archeo. sites will be selected via stratified random sample	High resolution surface mapping using lidar and 360 degree photography at a sample of approx. 30 arch sites; weather data is downloaded from established stations 4 times per year.	Per GCMRC-tribal meeting on 7/15/10: Zuni questioned status of permitting by NPS. No other concerns were raised. Previously Zuni has expressed concern about lack of integration with tribal monitoring.	GCMRC planned to host a workshop Feb. 15 2011 to review Phase I results and plan implementation of Phase II. This workshop was postponed, then cancelled due to NPS objections over the agenda. GCMRC plans to host a different workshop in spring 2011, perhaps in conjunction with treatment planning workshop, to explore options for improving integration of cultural monitoring
Quadrennial Remote-Sensing Overflight	DASA 12.D1.11 -12	GCMRC: Phil Davis, 928-556-7084	October 2007	Ongoing	Quadrennial Overflight (Next mission is in 2013) Aerial photography for change analysis is conducted every four years, with the next scheduled overflight in FY 2013. Funds are set aside in intervening years to help pay for the next data-collection effort.	Entire river corridor, plus rim station control points	Collect canyon-wide aerial images	Per GCMRC-tribal meeting on 7/15/10: no specific concerns identified.	N/A
Grand Canyon Integrated Oracle Database Management System	DASA 12.D2.11 -12	GCMRC: Phil Davis, 928-556-7084	October 2007	Ongoing	Project compiles all point data collected from ground-based studies into project-specific Oracle databases, maintains the databases, and works with the GIS Support project to develop internet access of archived data. The project also provides tools for data analysis .	Mainly Office work w/ field work as needed to support other programs	Typically involves integration of database design and field operations	Per GCMRC-tribal meeting on 7/15/10: no specific concerns identified.	N/A
GIS Support for Integrated Analyses and Projects, GIS Lead	DASA 12.D5.11 -12	GCMRC: Phil Davis, 928-556-7084	October 2007	Ongoing	Project compiles all spatial data collected from ground-based studies or spatial data generated from other sources and incorporates the data into GIS coverages. This project also maintains the databases, develops internet access to archived databases, and provides GIS tools for the analysis of these data.	Mainly office work w/ field work as needed to support other programs	Typical Remote Sensing Support (establish and remove targets, etc), ground truthing, and some field mapping.	Per GCMRC-tribal meeting on 7/15/10: no specific concerns identified.	N/A
Integrated Image Analysis and Change Detection	DASA 12.D9.11 -12	GCMRC: Phil Davis, 928-556-7084	October 2006	Ongoing	Project plans and coordinates airborne image acquisition for the entire river corridor every 4 years and analyzes the resulting image data to provide a consistent, calibrated image mosaic. The project produces periodic change-detection databases that provide maps of changes throughout the river corridor.	Mainly office work w/ some ground truthing of imagery	Typical Remote Sensing Support (establish and remove targets, etc),, plus ground truthing	Per GCMRC-tribal meeting on 7/15/10: no specific concerns identified.	N/A

Table 2. NPS projects of probable/possible relevance to GCD AMP NOTE: AMP members are cooperators on fish projects but all of the projects in Table 2 are funded outside of the GCD Adaptive Management Program and are permitted by Grand Canyon National Park.

Brief Project Title	Project No. (from NPS Annual Work Plan?)	Agency Lead: Contact Person	Proposed Project Start Date	Proposed Project End Date	Project Purpose & Primary Objectives	Field Work Locations	Summary of Field Activities	Consultation Status: previous meetings, identified issues	Proposed Actions to respond to tribal issues/concerns
GRCA Fish Management Plan		NPS Brian Healy 928-638-7453	March 30, 2010	Spring 2012	Purpose of this project is to develop a comprehensive fish management plan, with specific management actions to restore Native fish communities in Grand Canyon National Park	Grand Canyon National Park	Pending completion of proposed action and plan	Tribal consultation letter sent, March, 2010, ongoing.	2 work sessions held; additional coordination and consultation planned during the plan development process.
Translocation of HBC to Shinumo Crk.		NPS Brian Healy 928-638-7453 & USFWS: Pam Sponholtz 929-226-1289x113	June, 2009	May, 2014	Overall goal of this project is to establish a second spawning aggregation of humpback chub in GCNP. Project involves initial translocations to Sinumo Creek to determine feasibility for this location.	Shinumo Crk and mainstem	Remove nonnative predators, translocate/monitor humpback chub	Tribal consultation ongoing, initiated in 2007; Translocation video available on park website	Rainbow trout removed from Shinumo are smoked/cooked/consumed by humans to the extent possible/safe/feasible
Translocation of HBC to Havasu Crk.		NPS Brian Healy 928-638-7453 & USFWS: Pam Sponholtz 928-226-1289x113	Spring 2011	May, 2014	Overall goal of this project is to establish a second spawning aggregation of humpback chub in GCNP. Project involves initial translocations to Havasu Creek to determine feasibility for this location.	Havasu Crk	Translocate/monitor humpback chub (NNF will be removed opportunistically)	Tribal consultation initiated, ongoing.	HBC will only be released below Beaver Falls on NPS-managed lands.
Removal of Trout from Bright Angel Crk		NPS Brian Healy 928-638-7453 & USFWS: Pam Sponholtz 928-226-1289x113	Project began in 2006	May, 2014	The primary purpose of this project is to remove non-native trout from Bright Angel Creek and restore BAC for native fish and reduce potential predators of Native fish in the mainstem (i.e. trout).	Bright Angel Crk	Remove trout through use of weir/fish trap and electro-fishing, monitor native species	Tribal consultation ongoing, initiated in 2006.	Verbally proposed Live Removal Feasibility Study, otherwise consumption of trout would be implemented to the extent feasible. Portable "smoker" employed and fish used for human consumption (i.e. beneficial use)
Razorback Sucker habitat evaluation		Reclamation/ NPS	September 16, 2010	Unknown	Determine feasibility of re-introducing razorback sucker	Lower Grand Canyon – to Lake Mead	Expert panel field trip was conducted in Sept. 2010- observational/some seining	Tribal consultation letter sent, March, 2010, ongoing.	
CRMP Mitigation Actions		NPS Vanya Pryputniewicz 928-638-7659	2006	ongoing	Implement a range of actions as identified in the final CRMP and ROD Management response to mitigate impacts from visitor use	Various locations in Colorado River corridor	Fall or Winter mitigation implementation	Ongoing CRMP for archaeology guided by the plan and Sec 106 PA (that the tribes signed).	Draft guide will be sent to Tribes for review spring 2011; Tribal monitoring workshop to be held late spring/summer 2011.
CRMP Monitoring		NPS Vanya Pryputniewicz 928-638-7659	2006	ongoing	This project monitors visitor impacts to natural, cultural, and recreational resources along the river. Monitoring information is used to implement site	Various locations in Colorado	Spring or Fall monitoring	Ongoing CRMP for archeology guided by the plan and Sec	Draft guide will be sent to Tribes for review spring 2011; Tribal monitoring workshop to be held late spring/summer 2011.

Brief Project Title	Project No. (from NPS Annual Work Plan?)	Agency Lead: Contact Person	Proposed Project Start Date	Proposed Project End Date	Project Purpose & Primary Objectives	Field Work Locations	Summary of Field Activities	Consultation Status: previous meetings, identified issues	Proposed Actions to respond to tribal issues/concerns
					specific mitigations.	River corridor		106 PA (that the tribes signed).	

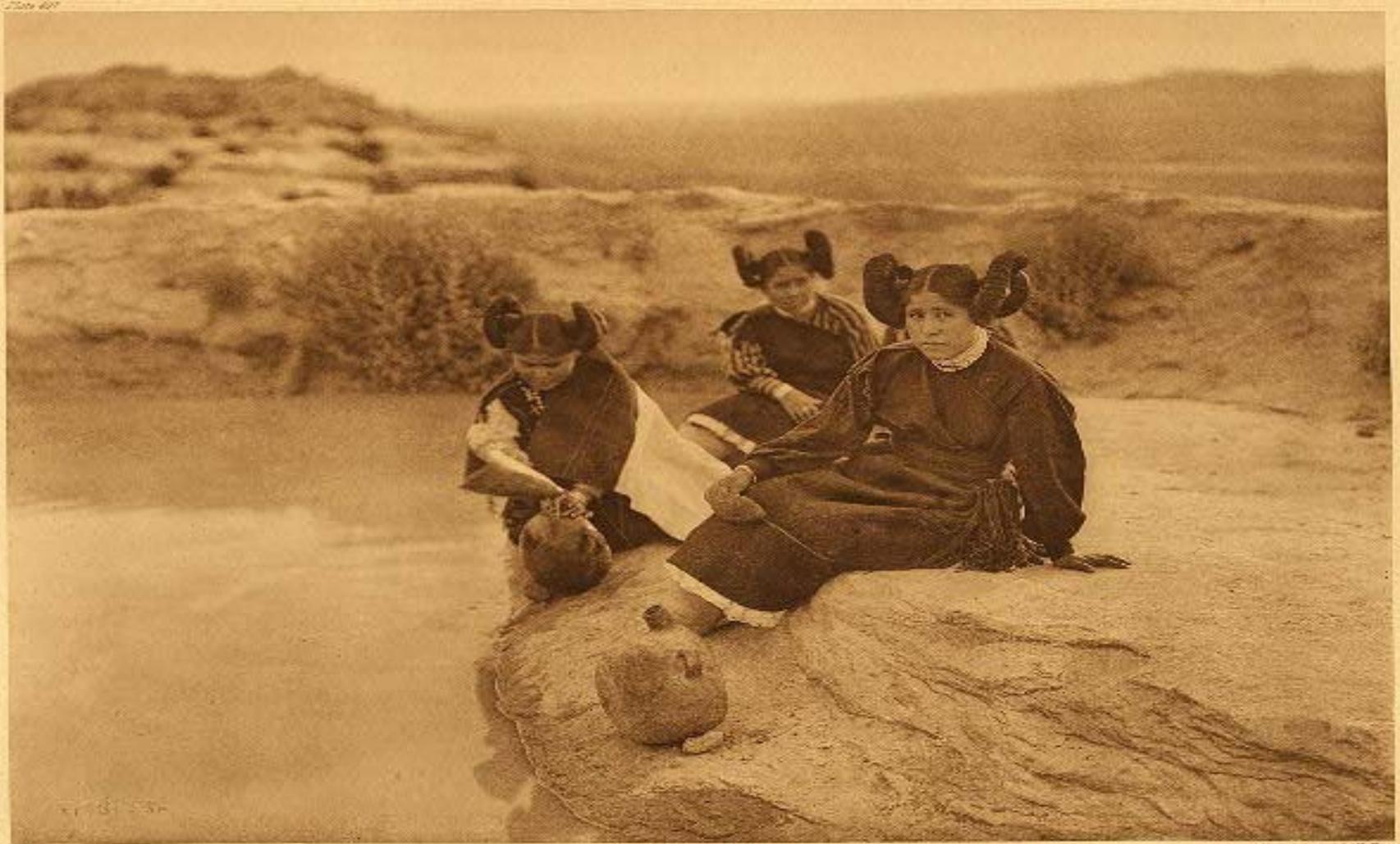


U.S. Department of the Interior

Native American Tribal Liaison
Office of the Assistant Secretary
Water and Science
John D. Halliday

**AMWG MEETING
REPORT MAY 2011**

EDWARD S. CURTIS - HOPI 1906



7200 497
11-13-31
BURNING IN KORE LAND
The Hopi People 1906
Copyright 1906 by E. S. Curtis

Tribal Liaison Perspective

- AMWG Group is made up of a very diverse and complex membership of tribes and stakeholders with varying agendas. Members each have their own culture, territory and constituency. But through sharing we hope to remove barriers between us.
- I meet with tribes and a cross section of the membership and having spent time gathering information and discussing the issues I try to make sure that the tribal perspectives are considered.
- What is the main challenge as a liaison!
“everyone wants me to do something about the other guy”
- Lastly: I view the purpose of this body is to keep each other talking. To try to find common ground by participation of the parties in the AMWG process. We are hoping to find win wins given all the varying interest.

TRIBAL CONSULTATION GROUP

- **Glen Canyon Dam Adaptive Management Program (GCDAMP) Department of the Interior (DOI) Tribal Consultation Group (“DTCG” Core Team)**
- The GCDAMP DOI Tribal Consultation Group Core Team began meeting via conference calls following the last AMWG meeting to facilitate the coordination of AMWG tribal consultation. The purpose and mission of the Core Team is to coordinate consultation activities among DOI agencies, tribes and other parties related to the GCDAMP activities, consistent with guidance in the AMP Tribal Consultation Plan and other consultation guidance, to foster good communication, clarify roles and responsibilities for consultation, and improve efficiency of the consultation process for the benefit of federal agencies and tribes.

DTCG MEMBERS

GCDAMP DOI Tribal Consultation Group Core Team Membership

- Nancy Coulam, Reclamation
- Glen Knowles, Reclamation
- Ann Gold, Reclamation
- Helen Fairley, Grand Canyon Monitoring and Research Center
- Janet Cohen, National Park Service
- Jan Balsom, National Park Service
- Amy L. Heuslein, Bureau of Indian Affairs
- Sam Spiller, U.S. Fish and Wildlife Service
- Deanna Archuleta, Department of the Interior (now Lori C.)
- John Halliday, Department of the Interior

AMP Projects Tribal Consultation Table

- **FY2011-2012 AMP Projects Tribal Consultation Table**
- To facilitate tribal consultation, the Core Team has created a table of projects funded through the Glen Canyon Dam Adaptive Management Program that may require tribal consultation in FY2011-2012. The Core Team developed the table to indentify AMP projects that may be of interest to tribes, solicit tribal input, and help determine if government to government tribal consultation is necessary. The table consolidates interagency information in one place for tribes about AMWG projects that they may wish to engage in consultation on, and provides tribes with contact information for each project. This one stop information collaborative document will provide tribes and federal agencies with an effective tool prioritizing tribal consultation efforts.

FY2011-2012 AMP Projects Tribal Consultation Table

- 1. Nonnative Fish Control EA - Reclamation: Glen Knowles 801-524-3781
- 2. HFE Protocol EA - Reclamation: Glen Knowles 801-524-3781
- 3. Long Term Experiment and Management Plan EIS - Reclamation: Glen Knowles 801-524-3781 And National Park Service Martha Hahn 928-638-7759:
- 4. Integrated Tribal Monitoring Projects - Reclamation: Glen Knowles 801-524-3781
- 5. Programmatic Agreement for Cultural Resources - Reclamation: Glen Knowles 801-524-3781 NPS:, Jan Balsom 928-638-7758
- 6. Treatment Plan Implementation - Reclamation: Glen Knowles 801-524-3781. NPS: Jan Balsom 928-638-7758
- 7. Tribal AMP participation - Reclamation: Glen Knowles 801-524-3781
- 8. Aquatic Food Base - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379
- 9. Monitor lower 13.6 km LCR - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379, USFWS: Pam Sponholtz 928-226-1289x113
- 10. Monitor lower 1200 m LCR - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379 & USFWS Pam Sponholtz 928-226-1289x113
- 11. HBC translocation and monitoring Chute Falls - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379 & USFWS: Pam Sponholtz 928-226-1289x113
- 13. Monitor Main Stem fishes - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379
- 14. Remote PIT tag reading - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379
- 15. Near Shore Ecology - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379
- 16. NEW Project: Main Stem Juvenile HBC monitoring - NEW GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379
- 17. Monitor Lees Ferry fishes - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379
- 18. New Project:: Evaluation of Trout Movement, Natal Origins, and Alternatives for Controlling Trout GCMRC: Biology Program Manager Scott Vanderkooi 928- 556-7379

19. Monitoring Kanab Amber Snail habitat - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379
20. Vegetation mapping and transects - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379
21. Water Quality Monitoring of Lake Powell and Glen Canyon Dam Tail Waters - GCMRC: Biology Program Manager Scott Vanderkooi 928-556-7379
22. Downstream water quality and sediment - GCMRC: Paul Grams 928-556-7458
23. Sed-Trend Channel Mapping - GCMRC: Paul Grams 928-556-7458
24. Sed-Trend Sandbar surveys - GCMRC: Paul Grams 928-556-7458
25. Modeling support for sediment and temperature models - GCMRC: Paul Grams 928-556-7458
26. Control network - GCMRC: Paul Grams 928-556-7458
27. Campsite area monitoring - GCMRC: Helen Fairley & Paul Grams 928-556-7285
28. Analyze Campsite Atlas Data - GCMRC: Helen Fairley, 928-556-7285. Linda Jalbert 928-638-7909
29. Evaluate Rec Values and Visitor Exp. Quality in Glen Canyon Reach - GCMRC: Helen Fairley 928-556-7285
30. Cultural Resource Monitoring R&D Phase II - GCMRC: Helen Fairley 928-556-7285
31. Quadrennial Remote-Sensing Over Flight - GCMRC: Phil Davis, 928-556-7084
32. Grand Canyon Integrated Oracle Database Management System - GCMRC: Phil Davis, 928-556-7084
33. GIS Support for Integrated Analyses and Projects, GIS Lead - GCMRC: Phil Davis, 928-556-7084
34. Integrated Image Analysis and Change Detection - GCMRC: Phil Davis, 928-556-7084
35. GRCA Native Fish Management Plan - NPS Brian Healy 928-638-7453
36. Translocation of HBC to Shinumo Crk - NPS Brian Healy 928-638-7453: Pam Sponholtz 929-226-1289x113
37. Translocation of HBC to Havasu Crk - NPS Brian Healy 928-638-7453 & USFWS: Pam Sponholtz 929-226-1289x113
38. Removal of Trout from Bright Angel Crk. - NPS USFWS: Pam Sponholtz 928-226-1289x113
39. Razorback Sucker habitat evaluation - UNK Reclamation/NPS Brian Healy 928-638-7453 &
40. CRMP Mitigation Actions - NPS Vanya Pryputniewicz 928-638-7659
41. CRMP Monitoring - NPS Vanya Pryputniewicz 928-638-7659

DOI - TRIBAL HFE-NNF-EA & LTEMP-EIS CONSULTATION MEETING UPDATE

Tribal consultation continues on the HFE Protocol EA and NNFC EA.
The following consultation meetings and input has occurred to date:

- Las Vegas Paiute Tribe: *No concerns or comments about this project*
- Moapa Band of Paiutes: *No concerns or comments about this project*
- Paiute Indian Tribe of Utah (PITU): *Meeting held on December 13th 2010*
- Hualapai Tribe: *Meeting held on Jan 8th 2011*
- Yavapai-Apache Nation: *Meeting held on January 12th, 2011*
- Kaibab Band of Paiute Indians: *Meeting held on January 20th 2011*
- Pueblo of Zuni: *Meeting held on January 25th 2011 a follow up meeting was held March 16th 1pm with Zuni Council Leadership and Zuni Religious Leaders*
- Navajo Nation: *Meeting held on January 26th 2011*
- Hopi Tribe: - *Meeting held on January 27th 2011*
- Havasupai: - *Meeting held on Feb 18th, 2011*

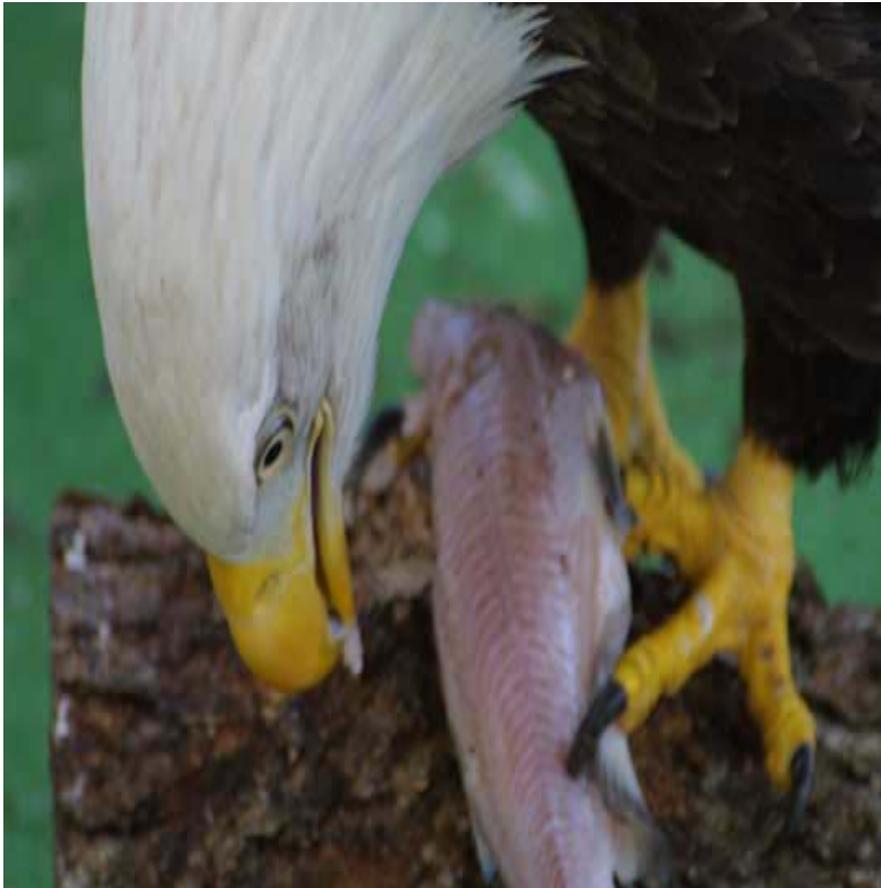
The primary issues identified during these consultations are as follows:

- Economic Impact
- Sufficient notice of HFE's
- Sacred Site Protection
- Traditional Cultural Properties Protection
- Traditional Cultural Knowledge Inclusion
- Consultation Policy Implementation

TRIBES HAVE A LONG TRADITION OF CARING FOR THE LAND
IDEAS THAT HAVE BEEN DISCUSSED SUCH AS FISH LIVE REMOVAL STOCKING AND REARING,
FOOD FOR TRIBAL WILDLIFE REHABILITATION CENTERS

SNAPSHOT OF FANTASTIC WORK OF TRIBAL FISH AND WILDLIFE PROGRAMS

ZUNI EAGLE REHABILITATION CENTER



EAGLES FEATHERS NATURALLY MOLTED FROM
THESE REHABILITATION CENTERS ARE USED FOR
TRADITIONAL CERAMONY





Mission Statement - Navajo Nation Zoological & Botanical Park

- Zoological facility, which is recognized as the only Native American zoological facility in the United States, by developing partnerships with external organization;
- Conserving native plants and animals, including rare, sensitive and endangered species, by providing adequate/safe refuge and exhibition, and maintaining a natural setting and environment;
- Promoting awareness and education of native plants and animals, including their cultural and traditional significance of the Navajo People and their scientific value to the environment;
- Implementing educational programs and projects with schools that promote first hand, visual experience of native plants and animals;
- Providing quality care for injured, orphaned and confiscated animals;
- Rehabilitating and releasing those animals into the wild that have been determined to be able to survive in the wild;
- Facilitating the use of plants and animals for traditional and/or ceremonial purposes;
- Complying with all pertinent laws and regulations to maintain required certifications and standards for permitting.

Hualapai Tribe Endangered Fish Rearing Facilities

- The Hualapai Tribe has constructed an Endangered Fish Rearing Facility on the Hualapai Reservation in northwestern Arizona. The facility was built on approximately 80 acres and in the future will consist of eight concrete raceways, eight brood ponds, four nurse ponds, twelve rearing ponds, one holding pond, a reticulation system, employee housing, maintenance and laboratory buildings.
- The proposed facilities would address the immediate need for a rearing facility for razorback suckers, *Xyrauchan texanus* and other endangered and/or native species for reintroduction into tribal and non tribal waters. The Hualapai Reservation is an ideal location for the facility because of its proximity to the Grand Canyon and due to the available resources the Reservation can provide, namely land and water.
- The construction of Glen Canyon Dam and its subsequent operation have contributed to the decline of the native fishes of the Colorado River in the Grand Canyon (Minckley and Deacon 1991). Only four of the eight species that occurred in predam times remain as viable populations. A fifth, the razorback sucker, is still abundant in Lake Mohave, but its population is declining. In 1990 the population estimates in Lake Mohave totaled 60,000 and today that estimate has declined to nearly 25,000 (Burke 1994).

BACKGROUND

- The status of threatened and native fishes of the Colorado River through the Grand Canyon have been the subject of increasing concern during the present FGCDEIS and subsequent Final Biological Opinion and Reasonable and Prudent Alternative developed by the U.S. Fish and Wildlife Service (Service). Both documents contain elements that address the need to establish a second population of the endangered humpback chub, *Gila cypha* and to design and implement plans to recover the endangered razorback sucker, *Xyrauchen texanus* in the Grand Canyon.
- Presently, only one facility in the Southwest, Dexter National Fish Hatchery and Training Center (DNFHTC), is fully dedicated to rearing endangered fishes. Johnson and Jensen (1991), however, expressed a need for additional facilities to rear and maintain native fish populations.
- The proposed Hualapai facility would provide a state of the art fish rearing system to enhance the potential for future recovery of endangered southwestern fishes. It is also wise to have more than one facility raising these fishes to maintain genetic diversity in the species and to safeguard against catastrophic losses due to accidents.

Hualapai Tribe Endangered Fish Rearing Facilities and Discussion of Potential Pond Stocking for Sports Fishing



INDIAN COUNTRY ZUNI

Gov and Lt Gov Zuni Tribal Council



INDIAN COUNTRY HAVASUPAI

Chair & V-Chair Havasupai Tribal Council



U.S. DEPARTMENT OF INTERIOR DRAFT TRIBAL CONSULTATION POLICY

- Secretary Salazar released a draft DOI Tribal Consultation Policy on January 12, 2011 that was also accompanied by a press release. The document was distributed to the AMP Tribes by John Halliday on January 18, 2011. DOI requested comments from American Indian tribes by March 14, 2011, a sixty day comment period, and stated that the Department has a public review period, following revisions to the policy, in 2011. The final policy is still being revised by DOI.
- The draft DOI Tribal Consultation Policy may be downloaded online at:
<http://www.doi.gov/governments/loader.cfm?csModule=security/getfile&pageid=119393>