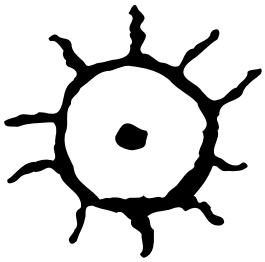
Approved August 15, 2006



San Juan River Basin
Recovery Implementation Program
Coordination Committee
Minutes for December 1, 2005

Coordination Committee Members:	**Representing:**
Joy Nicholopoulos, Chairman	U.S. Fish and Wildlife Service, New Mexico Ecological Services Field Office
Catherine Condon	Southern Ute Indian Tribe
Joel Farrell	U.S. Bureau of Land Management
Susan Jordan	Jicarilla Apache Nation
Justin Lynch	U.S. Bureau of Indian Affairs
Al Pfister	U.S. Fish and Wildlife Service
Tom Pitts	Water Development Interests
Stanley Pollack	Navajo Nation
Randy Seaholm	Colorado Water Conservation Board
Brent Uilenberg	U.S. Bureau of Reclamation
John Whipple	State of New Mexico

Hydrology & Biology Committee Members:	
Pat Page, Hydrology Committee	U.S. Bureau of Reclamation
Chuck McAda	U.S. Fish and Wildlife Service, Colorado

Program Management:	
David Campbell	Program Coordinator, U.S. Fish and Wildlife Service, NM Ecological Services
Joann Perea-Richmann	Program Support Assistant, U.S. Fish and Wildlife Service, NM Ecological Services

Interested Parties:	**Representing:**
Bill Miller	Southern Ute Indian Tribe
Mike Buntjer	U.S. Fish and Wildlife Service, New Mexico Ecological Services Field Office
Ron Bliesner	Keller-Bliesner Engineering/US BIA
Ernie Teller	Bureau of Indian Affairs- NIIP
Bruce M. Jaquez	Bureau of Indian Affairs – NIIP
John Kay	DBS&A for City of Albuquerque
Bob Muth	U.S. Fish and Wildlife Service, Colorado
Paul Holden	Jicarilla Apache Nation, Bio-West Inc.
Tim Jones	PNM Resources
Raymond Smith	Bureau of Indian Affairs – NIIP

Welcome and Introductions

Review and approval of June 16, 2005 and August 12, 2005 Minutes

- June 16 – P.2 Revise Hydrology Committee Update section model run language- Conditionally Approved with edits to be included. Pat and Dave will work out language.
- August 12 - Edit to include Tom Pitt's comments. Approved as edited.
  Review action items
  - See attached

NEW Agenda Items

- **Amendments to federal authorizing legislation (Tom Pitts)**
  A brief report from Tom was given on the status of the legislation that extends the time to implement capital projects and funding for Upper Basin.
- **Population Model Licensing Agreement (Cathy Condon)**
- Tom Pitts expressed concerns over the agreement. Tom Pitts will provide Cathy with a list of questions/ concerns to be addressed. Cathy stated in order to get accurate answers to questions they need to be sent to her prior to the meetings.
- Cathy stated that the licensing agreement would be between the tribe and the program.
- **Status of Biological Opinion (BO) —Navajo Reservoir (Joy Nicholopoulos)**
  - The NMESFO has re-organized and Mike Buntjer is now the point of contact for water related BO.
  - Time frame for BO to be completed is for end of December.
  - BO's will be posted to the program website upon completion.
- **Request for Delivery (ROD) for the final EIS, will be issued approximately 1month after the Final EIS is released.**

  Status of small depletion account (Dave Campbell)
  - Dave reported that two requests for 64 acre feet have been made and are in progress. No changes from the last handout.
- **Distribution of Biological Assessment (BA)**
  - Distribution process clarified and they will be posted on FTP website and committee's will be notified.
- **Long Range Plan**
  - Dave stated he's outlined changes and working this with Mark McKinstry.
  - They still have not sat down with the BC. Hoping to have this completed in the Spring.

Presentation of Upper Basin Program (Bob Muth) Handout attached

Bob briefed on the Cross-links Overview of the San Juan River and Upper Colorado River Basins.

Outreach Program Proposal (David Campbell) Handout attached

Discussion and Approval

- David reported that the San Juan program will partner together with the Upper Basin program in an effort to combine information for both program in newsletters, brochures, display exhibits at workshops and conferences. Each program will maintain websites. The Coordination Committee (CC) agreed that this would be a good effort for the program.

- Susan Jordan motioned to approve and Randy second the motion. A vote was conducted and all members agreed.
- David will modify 2006 SOW and include into 2007 SOW.

Discussion of Comments on Integration Report (CC)

Discussion and Tentatively Approved

- Bill Miller and the (BC) are addressing all of the comments at this time. He will incorporated them and the BC will discuss them in their December 9 Conference Call.
- Tom Pitts stated that he has concerns about funding of the licensing agreement is appropriate.
- Ron Bliesner asked that if the CC as a whole has any feedback on the document and comments provided that they are sent prior to the December 9 conference call. It would be good to have the level of detail provided in comments.

Committee Reports

Biology Committee (Chuck McAda)

- Program's Annual Review- Feb 21 and 22; BC meeting Feb 23.
  15 minute presentation and abstract/summary will be given on each project to include the; history of project, goals, key findings, outstanding questions, future direction.
  - Chuck will set dates for meeting 21,22,23
- Razorback Sucker Augmentation Plan – Mark McKinstry **(Handout attached)**
  - Discussion was done on whether capital expenditures can be used for ponds. Brent Uilenberg stated No.
  - Dave stated the other areas of concern were to use current facilities amend current SOW with Grand Junction and Dexter or put out for RFP process with someone else.
  - Brent suggested a technical committee be compiled to review concerns with current pond and select sites. Committee will be Dave Campbell, Jim Brooks (FWS) and Mark McKinstry, Ram Dam Kalsa (BoR) will evaluate and then make recommended site to the CC.

Hydrology Committee (Pat Page)

- Navajo Operations, 1.5M acre feet; 100% average for this year
  - 156% average inflows
  - 190% from July – November, still in very good condition 500 cfs release
  - Will lower release to 250 cfs on Tuesday to accommodate Fish and Game for in water project then back up to 500 cfs.
  - Currently at 25,000 anticipating maximum release
- River Administration/Operation Recommendations
- New Ops - Biology committee needs to review agreement for 2006 and consider what the agreement would need to look like to consider for 10 years. An agreement will be developed by the water users for 11 years for the biology committee to review. The BC will provide a memo to the CC before going to water users.
- Modeling work to transition from Generation 2 to Generation 3 have run across some problems which are being work out.

Proxy Discussion

- The flow recommendation vote used proxy votes that did not go well.

- We have a request from Dan Israel that Cathy Condon be his proxy.
- People need to come or send alternates.
- Dave - developed several proxy options for consideration.
- Do we need a policy that requires sending Alternates./Formulate a policy on proxy.

FY 07 Draft Workplan and Budget- Coordination Committee

Discussion and Action on 2007 Workplan

Tom Pitts:

- Assessment of Colorado Pikeminnow Augmentation
- Population Model
- Cyprinid. Key
- Trophic Relations
  - **Concerns regarding SOW that need to be addressed, submit to Dave by Jan. 2**

Fish and Wildlife Capital Update (Randy Seaholm)

- Need to Identify Projects.
- **$6.2 million spent to date.**

NFWF

- FY05- Contract on pond work- work should be completed by end of month; Aeration still underway. There are ROW issues that are being resolved to run power for the system.
- PNM – O&M contract for fish passage is moving forward. BoR, PNM and the Service are looking at and will address PNM weir crossing options.
- There is damage to the diversion structure at Hogback- BoR and BIA will address approach to assign responsibility for repair.
- Hogback Screen O&M meeting on Dec.6.
- Need Amy's Temperature report

Program Document (David Campbell)

Discussion and Approval

- Issues
- Why did we revise the Program Document (PD) instead of just updating it.
- There is concern that the PD has restructured the Program and that was not what some CC members were agreeing to.

Sections of concern:

- Trust Responsibilities
- Water Rights
- Program Coordinator's responsibilities.
- Administrative Responsibilities
- Committee
  - Dave will compare the Original version and revised draft and provide an analysis of the substantive changes of all sections. List all proposed changes and forward to CC.

Schedule Next Meeting Date

Program's Annual Review- Feb 14 - 15, with tentative change to February 21-22 in Farmington
May 9, 2006 – Durango, Colorado

Adjourn

Attachments:

Action Item Log
Agenda
Bob Muth briefing
Proposal to Integrate Outreach Program
Razorback sucker augmentation and propagation

COORDINATION COMMITTEE
ACTION ITEM LOG
(March 17, 2006)

	Action Item	*Meeting/ Origination Date*	*Responsible Party*	*Status*	*Due Date*	*Date Completed*
15	The Draft Final Program Document will be sent to the Coordination Committee on or by October 2 for review. The Program Document will be discussed and approved at the December 1 meeting in Farmington.	8-12-05	David Campbell, Brent Uilenberg, Tom Pitts, John Whipple and Randy Seaholm	Pending	05-09-06	
18	Compare 1st and 2nd minor depletions accounts to check for discrepancies. Completed for NM. David will work with Randy Seaholm and/or Southwestern Water Conservation District to clarify CO depletions.	8-12-05	David Campbell	In Progress	05-09-06	
19	David will modify 2006 SOW and 2007 SOW to include Outreach budget.	12-01-05	David Campbell	In Progress	05-09-06	
22	David will resend Original Program Document and red-line strike out version to CC to review and comment	12-01-05	David/CC	Pending	05-09-06	
23	Hatchery Update		David	Status		

Attachment 1

COORDINATION COMMITTEE
COMPLETED ACTION ITEM LOG
(Updated 3-17-06)

	Action Item	*Meeting/ Origination Date*	*Responsible Party*	*Status*	*Due Date*	*Date Completed*
1	David Campbell will meet in Albuquerque with Randy Seaholm, John Whipple, Tom Pitts and Brent Uilenberg to review and revise Program Document August 1-2, 2005. They will then submit their recommendations to the CC by the November meeting for review/comments and approval.	6-05	David Campbell, Randy Seaholm, John Whipple, Tom Pitts and Brent Uilenberg	Meet 8-01-05, changes have been made	08-01-05	Completed
2	CC will discuss and approve/disapprove Revised Budget which were placed on hold for justification at August 12, 2005 Conference Call.	6-05		All SOW were approved, waiting for Aeration Pond SOW		8-12-05
3	Copies of BO's will be sent to CC.	6-05	FWS Program Office	Completed		8-12-05
4	Submit SOW for design work on Hogback fish screen to Joann for the June 16 meeting.	6-05	Brent Uilenberg	Completed	08-12-05	08-12-05
5	Tom Pitts stated he would take this task of drafting a letter on 100% funding for the Program Coordinator and Program Administrative Assistant and submit to the committee prior to sending it to the Regional Office.	6-05	Program Office	Removed no further action	12-01-05	12-01-05
6	Committees to submit FY07 SOW to David/Joann no later than January 9, 2006.	8-12-05	BC & HC	Completed	01-09-06	01-10-06

7	UNM GIS SOW needs to annotate Public Access Read-Only be as an objective in next years SOW – per Tom Pitts.	8-12-05	UNM	Completed	12-01-05	7
8	Get access sign-in and information for the CC for GIS public access	8-12-05	David/Joann	Sara Gottlieb reported system is not properly working will get this information to me when problem is fixed **(Completed)**	08-12-05	08-12-05
10	Check with BoR to see what the rules are on the modeling licensing agreement.	8-12-05	Brent Uilenberg	Mark sent e-mail	12-01-05	12-01-05
11	Check with Darryl Snyder to see when he could expect a project to be done if "not fully funded" for the Cyprinid project.	8-12-05	Chuck McAda	Cut out	12-01-05	02-23-06
12	BC will submit a fully developed SOW on the aerations and cannons. And in addition a new proposal on Razorback productions/ponds with one of the hatcheries.	8-12-05	Chuck McAda/Ron Bliesner	Submitted and forwarded to CC for Approval	8-05	8-05
13	Research which committee members are charging the program travel and attendance to Program funds, report back to the committee.	8-12-05	David Campbell	Completed	12-01-05	12-01-05
14	Cathy Condon stated she would have more information on the licensing agreement, but their concern is the development of the model. She would provide feedback at the next CC meeting. If members have other concerns or questions regarding this they need to be directed to Cathy Condon prior to the next meeting	8-12-05	Cathy Condon	Completed	12-01-05	

COORDINATION COMMITTEE
COMPLETED ACTION ITEM LOG
(Updated March 17, 2006)

	Action Item	*Meeting/ Origination Date*	*Responsible Party*	*Status*	*Due Date*	*Date Completed*
16	Submit recommendations on improving the Program's Razorback Sucker Augmentation program. This will include securing additional sources of fish production with other hatcheries.	8-12-05	David Campbell	Completed	12-01-05	
17	Send copy of Section 7 Consultation letter to CC	8-12-05	Joann Perea-Richmann	Completed		
20	BO for Navajo Reservoir to be placed on SJ FTP site.	12-01-05	Joann	Completed		
21	CC will forward concerns to David on 2007 SOW then forward to BC	12-01-05	David/BC	Completed		

SAN JUAN RIVER RECOVERY IMPLEMENTATION PROGRAM
COORDINATION COMMITTEE MEETING
Farmington Civic Center
200 W. Arrington
Farmington, NM

Thursday, December 1, 2005
8:00 am – 3:00 pm

DRAFT AGENDA

Welcome and Introductions ---------- **Joy Nicholopoulos**
Review and approval of June 16, 2005 and August 12, 2005 Minutes
Review action items -- See attached

NEW Agenda Items:
**Amendments to federal authorizing legislation (Tom Pitts)
**Population Model Licensing Agreement (Cathy Condon)
**Status of Biological Opinion—Navajo Reservoir (Joy Nicholopoulos)
**Status of small depletion account (Dave Campbell)

Presentation of Upper Basin Program ---------- **Bob Muth**
Outreach Program Proposal ---------- **David Campbell**
Discussion and Approval
Discussion of Comments on Integration Report ---------- **Coordination Committee**
Committee Reports
Biology Committee ---------- **Chuck McAda**
Program's Annual Review- Feb 14 and 15; BC meeting Feb 16.
Razorback sucker Augmentation Plan – Mark McKinstry
Hydrology Committee ---------- **Pat Page**
River Administration/Operation Recommendations
Program Document ---------- **David Campbell**
Discussion and Approval
FY 07 Draft Workplan and Budget ---------- **Coordination Committee**
Discussion and Action on 2007 Workplan
Fish and Wildlife Capital Update ---------- **Randy Seaholm**

Schedule Next Meeting Date
Program's Annual Review- Feb 14 and 15 (Farmington)

Adjourn

Attachment 2

Attachment 3

–CROSS-LINKS OVERVIEW:

RECOVERY GOALS FOR ENDANGERED FISH SPECIES

AND THE

ENDANGERED FISH RECOVERY PROGRAMS FOR THE UPPER COLORADO RIVER AND SAN JUAN RIVER BASINS

Prepared by:

Robert Muth[1], Director, Upper Colorado River Endangered Fish Recovery Program

David Campbell[1], Coordinator, San Juan River Basin Recovery Implementation Program

April 27, 2005

INTRODUCTION

The purpose of this document is to provide an overview of cross-links among management actions to minimize or remove threats to the listed species identified in the *2002 Recovery Goals for Colorado pikeminnow, humpback chub, razorback sucker, and bonytail* and current principal recovery actions of the Upper Colorado River Endangered Fish Recovery Program (UCRRP) and the San Juan River Basin Recovery Implementation Program (SJRRIP). The **Cross-Links Overview** is organized by 1) **Recovery Goals Management Action**, and 2) associated **Recovery Program Actions** for both the UCRRP and SJRRIP. Each management action of the Recovery Goals states the broad requirement to minimize or remove a particular threat to the listed species. Recovery actions listed under each Recovery Goals Management Action are the associated site-specific management tasks being conducted by the UCRRP and SJRRIP within their various and respective recovery elements.

RECOVERY GOALS

Recovery Goals for endangered Colorado pikeminnow, humpback chub, razorback sucker, and bonytail (http://mountain-prairie.fws.gov/crrip/rg.htm) were approved on August 1, 2002, by the Director of U.S. Fish and Wildlife Service (Service) Region 6 (Mountain-Prairie) who has the lead for recovery of these species. The Recovery Goals amend and supplement the existing recovery plans for these species pursuant to Section 4(f)(1)(B) of the 1973 Endangered Species Act (ESA), as amended, to describe site-specific management actions/tasks; provide objective, measurable recovery criteria; and provide estimates of time required to achieve recovery. The Recovery Goals provide guidance to the recovery programs, and are intended to be used by the Service in rule-making processes to downlist and/or delist the species.

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[1]Contact information: Robert Muth, 44 Union Boulevard, Suite 120, Lakewood, Colorado 80228, (303) 969-7322/268, robert_muth@fws.gov; David Campbell, 2105 Osuna Road NE, Albuquerque, New Mexico 87113, (505) 761-4745, david_campbell@fws.gov

Recovery is based on reduction or removal of threats and improvement of the status of a species during the time it is listed. Management actions and tasks conducted by recovery or conservation programs for listed species are expected to minimize or remove threats and improve the species' status. When delisting a species, the Service must determine that the five listing factors of the ESA [Section 4(a)(1)] no longer apply, e.g., the habitat is no longer threatened with destruction or modification, the current abundance and range is adequate, and the habitat needed to sustain recovered populations is present.

The Recovery Goals include site-specific management actions and tasks, as well as objective, measurable downlisting and delisting criteria, presented by "recovery factor". These recovery factors were derived from the five listing factors and state the conditions under which threats are minimized or removed. Downlisting can be considered when site-specific management actions and tasks to minimize or remove threats have been identified, developed, and implemented; delisting can be considered when those management actions and tasks have been finalized and implemented. The Recovery Goals also include objective, measurable demographic criteria that describe numbers of populations and individuals (adults and juveniles) required for consideration of downlisting and delisting.

RECOVERY PROGRAMS

Management, research, and monitoring actions consistent with the Recovery Goals for the four endangered fishes in the Upper Colorado River Basin are conducted by the UCRRP (established in 1988) and the SJRRIP (established in 1992). The UCRRP deals with all four endangered fishes in the upper Colorado River and Green River subbasins, whereas the SJRRIP deals with Colorado pikeminnow and razorback sucker in the San Juan River subbasin. Both recovery programs operate under similar recovery elements with imbedded actions that are consistent with the Recovery Goals.

Recovery elements of the UCRRP include:

- **Habitat Management** (identify and acquire adequate instream flows in accordance with State water laws and interstate compacts);
- **Habitat Development** (restore habitat to develop spawning and nursery sites, provide fish passage at dams, and prevent fish from becoming trapped in diversion canals);
- **Nonnative Species and Sportfishing** (reduce the threat of certain nonnative fish species while maintaining sportfishing opportunities);
- **Research, Monitoring, and Data Management** (provide data on life-history requirements of the endangered fishes and monitor populations to measure progress toward achieving recovery goals); and
- **Endangered Fish Propagation and Stocking** (raise genetically diverse fish in hatcheries and stock them into the river systems).

Recovery elements of the SJRRIP include:

1. **Protection, Management, and Augmentation of Habitat** (identify important river reaches for different life stages of the endangered fishes and make suitable habitat improvements, including passage around migration barriers);
2. **Water Quality Protection and Enhancement** (monitor existing water quality conditions and take actions to diminish or eliminate identified water quality problems that limit recovery);
3. **Interactions Between Native and Nonnative Fish Species** (identify problematic nonnative fish species and implement actions to reduce negative interactions);
4. **Monitoring and Data Management** (evaluate status and trends of endangered fishes, and other native and nonnative species, to measure progress toward achieving recovery goals); and
5. **Protection of Genetic Integrity and Management and Augmentation of Populations**

(maintain genetically diverse fish species and raise new generations of fish to stock in the river system).

Principal recovery actions of the UCRRP and SJRRIP summarized in the following section (**Cross-Links Overview**) are within recovery elements 1–4 for each program. These elements are directly associated with the management actions to minimize or remove threats identified in the Recovery Goals. Propagation and stocking of endangered fish are being conducted by both programs to reestablish or augment self-sustaining populations. Monitoring of populations and stocked fish is being conducted to evaluate progress toward meeting the demographic criteria of the Recovery Goals. Both programs have a public information and involvement element to increase public awareness and support for the endangered fishes.

Details of recovery actions are identified in the Recovery Action Plan of the UCRRP (http://r6.fws.gov/crrip/rip8-04.htm), and in the Annual Work Plan and Long-Range Plan of the SJRRIP (http://www.fws.gov/southwest/sjrip/budgets.html). Details of site-specific management actions/tasks and objective, measurable criteria for downlisting and delisting are described in the Recovery Goals for each of the four endangered fish species. For more information please contact Robert Muth or David Campbell.

CROSS-LINKS OVERVIEW

A. RECOVERY GOALS MANAGEMENT ACTION.—PROVIDE FLOWS NECESSARY FOR ALL LIFE STAGES OF COLORADO PIKEMINNOW, RAZORBACK SUCKER, HUMPBACK CHUB, AND BONYTAIL TO SUPPORT RECOVERED POPULATIONS, BASED ON DEMOGRAPHIC CRITERIA

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Continuing research, monitoring, and adaptive management to identify, implement, evaluate, and revise flow regimes to benefit the endangered fishes
- Developed flow recommendations that specifically consider known (with associated uncertainties) life-history requirements and flow-habitat relationships within occupied or historic habitat of the endangered fishes
- Developed strategic plan for flow-related geomorphic (habitat) research and monitoring
- Developed and selected methods for modifiable protection of instream flows in Colorado, and adopted enforcement agreement

Colorado River, Colorado, upstream of the Gunnison River confluence "15-Mile Reach"

- Developed flow recommendations to benefit the endangered fishes
- Adopted Programmatic Biological Opinion to address provision and protection of flows and implementation other recovery actions (see below under Management Actions B through Q)
- Augmenting spring peak flows through voluntary coordinated releases of water from upstream reservoirs (Coordinated Reservoir Operations, CROPS) in average and wetter years, and, in years with CROPS, Coordinated Facilities Operations Program to provide up to 20,000 acre-feet (af) of additional peak-flow augmentation water
- Augmenting late summer and fall base flows with between 22,000 and 75,000 af per year (depending on hydrologic conditions in the basin) of water released from storage in upstream reservoirs
- Secured instream flow decrees for 300 and 581 cubic feet per second (cfs) to protect base flows

Gunnison River, Colorado

- Developed flow recommendations to benefit the endangered fishes
- Proposed reoperation of releases from the Aspinall Unit dams to help meet the recommended flows (NEPA and Section 7 processes on reoperation ongoing)
- Proposed Programmatic Biological Opinion for the Gunnison River Basin to address provision and protection of flows and implementation of other recovery actions

Colorado River, Colorado and Utah, downstream of the Gunnison River confluence

- Developed flow recommendations to benefit the endangered fishes (flows provided in this river reach will ultimately depend on the combination of modified flows in the Gunnison River and flows currently provided for under the 15-Mile Reach Programmatic Biological Opinion)

Yampa River, Colorado

- Developed flow recommendations to benefit the endangered fishes
- Adopted *Management Plan for Endangered Fishes in the Yampa River Basin* and Programmatic Biological Opinion to address provision and protection of flows and implementation of other recovery actions (see below under Management Actions B through Q)
- Augmenting late summer and fall base flows through temporary lease for up to 2,000 af per year of water released from Steamboat Lake; cost-sharing enlargement of Elkhead Reservoir to provide up to 7,000 af of base-flow augmentation water per year (5,000 af permanent, and up to 2,000 af leased), enlargement slated for completion in 2007.

White River, Colorado

- Completed initial report on flow recommendations to benefit the endangered fishes
- Considering Programmatic Biological Opinion approach to address provision and protection of flows and implementation of other recovery actions

Green River, Utah

- Developed flow and temperature recommendations to benefit the endangered fishes
- Operating releases from Flaming Gorge Dam to help meet recommended interim summer–fall flows and temperatures
- Proposed reoperation of releases from Flaming Gorge Dam to help meet the recommended spring–winter flows and temperatures (NEPA and Section 7 processes on reoperation are slated for completion in spring or summer 2005)
- State of Utah subordinates all future water-rights appropriations between Flaming Gorge Dam and the Duchesne River confluence for the summer and fall periods to flows to benefit the endangered fishes; this protection will extend to the spring period and downstream to the Colorado River confluence after the Record of Decision and Biological Opinion for reoperation of Flaming Gorge Dam are completed

Duchesne River, Utah

- Developed flow recommendations to benefit the endangered fishes
- Biological Opinion to address provision and protection of flows and implementation of other recovery actions slated for completion in spring 2005

San Juan River Basin Recovery Implementation Program

San Juan River, New Mexico, Colorado, and Utah

- Continuing research, monitoring, and adaptive management to identify, implement, evaluate, and revise flow regimes to benefit the endangered and other native fishes
- Developed flow and temperature recommendations to benefit the endangered fishes that specifically consider known (with associated uncertainties) life-history requirements and flow-habitat relationships within occupied or historic habitat of the endangered fishes
- Developed flow-related geomorphic (habitat) research and monitoring plan
- Implementing flow regimes to restore and maintain native fish habitat
- Developed and implemented agreement with State and Federal agencies, Indian tribes, and water users in 2004 to share water shortages during drought among all water users, including the endangered fishes
- Proposed reoperation of releases from Navajo Dam to help meet the recommended flows and temperatures (NEPA and Section 7 processes slated for completion on reoperation in fall 2005)

A. RECOVERY GOALS MANAGEMENT ACTION.—PROVIDE PASSAGE FOR COLORADO PIKEMINNOW, RAZORBACK SUCKER, AND BONYTAIL WITHIN OCCUPIED HABITAT TO ALLOW ADEQUATE MOVEMENT AND, POTENTIALLY, RANGE EXPANSION

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Evaluated potential barriers to fish movement, and identified and implemented necessary remedial measures

Colorado River, Colorado (restore access to about 60 miles of critical habitat)

- Constructed fish passage at Grand Valley Irrigation Company diversion dam
- Constructed and planning to operate selective fish passage at Grand Valley Project diversion dam upon completion of fish passage at Price-Stubb diversion dam
- Planned construction of fish passage at Price-Stubb diversion dam slated for completion in 2005–2006

Gunnison River, Colorado (restore access to about 50 miles of critical habitat)

- Constructed and operating selective fish passage at Redlands diversion dam

San Juan River Basin Recovery Implementation Program

San Juan River, New Mexico (restore access to about 36 miles of critical habitat)

- Evaluated potential barriers to fish movement, and identified and implemented necessary remedial measures
- Constructed fish passage at Cudei and Hogback diversion dams
- Constructed and operating selective fish passage at Public Service Company of New Mexico weir
- Evaluating construction of fish passage at Arizona Public Service Company weir and Fruitland diversion dam to determine if needed

A. RECOVERY GOALS MANAGEMENT ACTION.—INVESTIGATE OPTIONS FOR PROVIDING APPROPRIATE WATER TEMPERATURES IN THE GUNNISON RIVER THAT WOULD ALLOW FOR RANGE EXPANSION OF COLORADO PIKEMINNOW, RAZORBACK SUCKER, AND BONYTAIL

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Investigated feasibility of modifying releases from Aspinall Unit dams to increase water temperatures in the Gunnison River; final report slated for completion in spring 2005

San Juan River Basin Recovery Implementation Program

- Not applicable to Recovery Goals; completed water temperature modeling for the San Juan River system, from Navajo Reservoir downstream to Shiprock, New Mexico, which investigated the feasibility of modifying releases from Navajo Reservoir to increase water temperatures

A. RECOVERY GOALS MANAGEMENT ACTION.—MINIMIZE ENTRAINMENT OF SUBADULT AND ADULT COLORADO PIKEMINNOW, RAZORBACK SUCKER, AND BONYTAIL IN DIVERSION CANALS

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

Colorado River, Colorado

- Evaluated existing major diversion structures for entrainment potential, and identified and implemented necessary remedial measures
- Constructed and operating fish screen and bypass in Grand Valley Irrigation Company diversion canal
- Constructing fish screen and bypass in Government Highline diversion canal, slated for completion and operation by August 2005

Gunnison River, Colorado

- Evaluated existing major diversion structures for entrainment potential, and identified and implemented necessary remedial measures
- Constructing fish screen and bypass in Redlands diversion canal, slated for completion and operation by August 2005

Yampa River, Colorado

- Evaluating existing major diversion structures for entrainment potential (will identify and implement necessary remedial measures)

Green River, Utah

- Evaluated existing major diversion structures for entrainment potential, and identified and implemented necessary remedial measures
- Planned construction of fish screen and bypass in Tusher Wash diversion canal slated to begin in FY 2006

San Juan River Basin Recovery Implementation Program

San Juan River, New Mexico

- Evaluated existing major diversion structures for entrainment potential, and identified and implemented necessary remedial measures
- Designing fish screen and bypass for the Hogback/Cudei diversion canal

A. RECOVERY GOALS MANAGEMENT ACTION.—PROVIDE FLOODPLAIN HABITATS FOR ALL LIFE STAGES OF RAZORBACK SUCKER, PARTICULARLY TO SERVE AS NURSERY AREAS FOR LARVAE AND JUVENILES

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Identified biological merits of restoring floodplain habitats
- Inventoried and screened for restoration potential floodplain habitats along 870 miles of river

- Identified strategies to restore/enhance and protect floodplain habitats
- Developed management plans for priority floodplain habitats in the Upper Colorado River and Green River subbasins
- Continuing research and monitoring to evaluate managed floodplain habitats and responses of razorback sucker, and revise management plans through ongoing adaptive management

Colorado River, Colorado

- Total of 393.52 acres of floodplain property acquired (through easements or in fee), restored, and being managed by the Recovery Program

Gunnison River, Colorado

- Total of 198.20 acres of floodplain property acquired (through easements), restored, and being managed by the Recovery Program

Green River, Utah

- Total of 1,008.10 acres of floodplain property acquired (through easements), restored, and being managed by the Recovery Program

San Juan River Basin Recovery Implementation Program

- Not applicable

F. RECOVERY GOALS MANAGEMENT ACTION.—INVESTIGATE HABITAT REQUIREMENTS FOR ALL LIFE STAGES OF BONYTAIL AND PROVIDE THOSE HABITATS NECESSARY TO SUPPORT RECOVERED POPULATIONS, BASED ON DEMOGRAPHIC CRITERIA

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Evaluating stocked bonytail to determine habitat requirements

San Juan River Basin Recovery Implementation Program

- Not applicable

A. RECOVERY GOALS MANAGEMENT ACTION.—PROTECT COLORADO PIKEMINNOW, HUMPBACK CHUB, RAZORBACK SUCKER, AND BONYTAIL POPULATIONS FROM OVERUTILIZATION FOR COMMERCIAL, RECREATIONAL, SCIENTIFIC, OR EDUCATIONAL PURPOSES

RECOVERY PROGRAM ACTIONS:

- Not currently considered a threat in the Upper Colorado and San Juan river systems
- Reevaluating and, if necessary, actions to ensure adequate protection will be identified and implemented

A. RECOVERY GOALS MANAGEMENT ACTION.—MINIMIZE ADVERSE EFFECTS OF DISEASES AND PARASITES ON COLORADO PIKEMINNOW, HUMPBACK CHUB, RAZORBACK SUCKER, AND BONYTAIL POPULATIONS

RECOVERY PROGRAM ACTIONS:

- Not currently considered a threat in the Upper Colorado and San Juan river systems
- Reevaluating and, if necessary, actions to ensure adequate protection will be identified and implemented

I. RECOVERY GOALS MANAGEMENT ACTION.—REGULATE NONNATIVE FISH RELEASES AND ESCAPEMENT INTO THE MAIN RIVER, FLOODPLAIN, AND TRIBUTARIES

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Developed and implemented *Procedures for Stocking Nonnative Fish Species* that was adopted by the states of Colorado, Utah, and Wyoming, and the Service (includes stocking and reporting regulations; berming, screening, or reclamation of off-channel ponds or reservoirs; and development of State lake management plans)

Colorado River, Colorado

- Installed and operating fish barrier net across spillway of Highline Lake
- Planning selective removal of nonnative fish species at Grand Valley Project fish passage

Gunnison River, Colorado

- Continuing selective removal of nonnative fish species at the Redlands fish passage

Yampa River, Colorado

- Installing fish screens on the outlets of the enlarged Elkhead Reservoir, enlargement scheduled for completion in 2007

Duchesne River, Utah

- Installed and operating fish screen at outlet of Ute Indian Tribe's Elders Pond
- Evaluating nonnative fish escapement from Starvation Reservoir

San Juan River Basin Recovery Implementation Program

- Continuing selective removal of nonnative fish species at the Public Service Company of New Mexico weir

A. RECOVERY GOALS MANAGEMENT ACTION.—CONTROL PROBLEMATIC NONNATIVE FISHES AS NEEDED

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Identified problematic nonnative fish species and options for their control
- Adopted policy to identify and implement nonnative fish management actions needed to recover the endangered fishes
- Implementing a comprehensive public communication and involvement plan
- Continuing research and monitoring to evaluate responses of nonnative and native fishes to nonnative fish control actions, and revise control actions through ongoing adaptive management

Colorado River, Colorado and Utah

- Developing State aquatic management plan for the Upper Colorado River subbasin in Colorado
- Removed bag and possession limits on warmwater sportfish in critical habitat to increase angler harvest
- Continuing mechanical removal of smallmouth bass, largemouth bass, black crappie, bluegill, and green sunfish over a total of about 60 river miles to identify levels of control that will minimize negative interactions with endangered fish
- Evaluating chronic sources of smallmouth and largemouth bass to identify effective control actions (will implement identified control actions as needed)
- Evaluating control methods for small-bodied nonnative fishes in backwater nursery habitats and for channel catfish to identify effective control actions (will implement identified control actions as needed)

Gunnison River, Colorado

- Completed mechanical removal of northern pike
- Removed bag and possession limits on warmwater sportfish in critical habitat to increase angler harvest

Yampa River, Colorado

- Developed State aquatic management plan
- Removed bag and possession limits on warmwater sportfish to increase angler harvest
- Continuing mechanical removal of smallmouth bass and northern pike over a total of about 177 river miles to identify levels of control that will minimize negative interactions with endangered fish; translocating removed fish into local off-channel ponds or reservoirs
- Evaluating chronic sources of smallmouth bass and northern pike to identify effective control actions (will implement identified control actions as needed)
- Continuing mechanical removal of channel catfish from Yampa Canyon (about 45 river miles) to identify levels of control that will minimize negative interactions with endangered fish; evaluating control methods for channel catfish in other river reaches to identify effective control actions (will implement identified control actions as needed)

White River, Colorado

- Removed bag and possession limits on warmwater sportfish in critical habitat to increase angler harvest

Green River, Utah

- Continuing mechanical removal of northern pike and smallmouth bass over a total of about 248 river miles to identify levels of control that will minimize negative interactions with endangered fish
- Evaluating control methods for small-bodied nonnative fishes in backwater nursery habitats and for channel catfish to identify effective control actions (will implement identified control actions as needed)

Duchesne River, Utah

- Continuing mechanical removal of smallmouth bass and northern pike over a total of about 40 river miles to identify levels of control that will minimize negative interactions with endangered fish; translocating removed fish into Ute Indian Tribe's Elders Pond

San Juan River Basin Recovery Implementation Program

San Juan River, New Mexico, Colorado, and Utah

- Identified problematic nonnative fish species and options for their control
- Continuing and expanding mechanical removal of channel catfish and other large-bodied nonnative fish species (e.g., striped bass, walleye, and common carp) over a total of about 124 river miles to identify levels of control that will minimize negative interactions with endangered fish; translocating removed fish to closed impoundments isolated from the river
- Continuing research and monitoring to evaluate responses of nonnative and native fishes to nonnative fish control actions, and revise control actions through ongoing adaptive management
- Evaluating distribution, abundance, and potential impacts of striped bass

A. RECOVERY GOALS MANAGEMENT ACTION.—LEGALLY PROTECT HABITAT NECESSARY TO PROVIDE ADEQUATE HABITAT AND SUFFICIENT RANGE FOR ALL LIFE STAGES OF COLORADO PIKEMINNOW, HUMPBACK CHUB, RAZORBACK SUCKER, AND BONYTAIL TO SUPPORT RECOVERED POPULATIONS, BASED ON DEMOGRAPHIC CRITERIA

RECOVERY PROGRAM ACTIONS:

- In addition to Federal laws and related State statutes, see recovery actions under Management Actions A, B, L, O, and P for examples of additional provisions to protect habitat

A. RECOVERY GOALS MANAGEMENT ACTION.—PROVIDE FOR THE LONG-TERM MANAGEMENT AND PROTECTION OF COLORADO PIKEMINNOW, HUMPBACK CHUB, RAZORBACK SUCKER, AND BONYTAIL POPULATIONS AND THEIR HABITATS

RECOVERY PROGRAM ACTIONS:

- Planning to identify elements of conservation plans to ensure long-term management and protection of endangered fishes following delisting

A. RECOVERY GOALS MANAGEMENT ACTION.—MINIMIZE THE THREAT OF HYBRIDIZATION AMONG *GILA* SPECIES IN RIVER REACHES OCCUPIED BY HUMPBACK CHUB AND BONYTAIL

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Accomplished by continuing to provide flows necessary for all life stages of humpback chub and bonytail to support recovered populations

San Juan River Basin Recovery Implementation Program

- Not applicable

A. RECOVERY GOALS MANAGEMENT ACTION.—MINIMIZE THE THREAT OF HYBRIDIZATION WITH WHITE SUCKER IN RIVER REACHES OCCUPIED BY RAZORBACK SUCKER

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Accomplished by continuing to provide flows necessary for all life stages of razorback sucker to support recovered populations
- Evaluating need for mechanical removal of white sucker

San Juan River Basin Recovery Implementation Program

- Not applicable

A. RECOVERY GOALS MANAGEMENT ACTION.—MINIMIZE THE RISK OF HAZARDOUS-MATERIALS SPILLS IN CRITICAL HABITAT

RECOVERY PROGRAM ACTIONS:

- Identifying locations of existing petroleum-product pipelines, and assessing need for emergency shut-off values on existing and new petroleum-product pipelines
- Evaluating State and Federal hazardous-materials spills emergency response plans/programs, and recommending changes to ensure adequate protection from hazardous-materials spills

A. RECOVERY GOALS MANAGEMENT ACTION.—MINIMIZE THREATS FROM DEGRADED WATER QUALITY ON COLORADO PIKEMINNOW, RAZORBACK SUCKER, AND BONYTAIL

RECOVERY PROGRAM ACTIONS:

Upper Colorado River Endangered Fish Recovery Program

- Contaminants remediation is conducted independently of the Recovery Program
- Actions necessary to remediate groundwater contamination from the Atlas Mills tailings pile adjacent to the Green River near Moab, Utah, are being identified through the NEPA and Section 7 processes; funding through Department of Energy

San Juan River Basin Recovery Implementation Program

- Conducting water quality monitoring at 5-year intervals; no problems currently identified

5. RECOVERY GOALS MANAGEMENT ACTION.—MINIMIZE ADVERSE EFFECTS OF SELENIUM CONTAMINATION ON COLORADO PIKEMINNOW AND RAZORBACK SUCKER REPRODUCTIVE SUCCESS AND SURVIVAL OF YOUNG AND REDUCE DELETERIOUS LEVELS OF SELENIUM CONTAMINATION, IF NECESSARY

RECOVERY PROGRAM ACTIONS:

- Continuing to evaluate adverse effects of selenium contamination on Colorado pikeminnow and razorback sucker and, if necessary, actions to reduce deleterious levels of selenium contamination will be identified and implemented

Attachment 4

DRAFT

PROPOSAL TO INTEGRATE OUTREACH PROJECTS FOR UPPER COLORADO RIVER AND SAN JUAN RIVER BASIN RECOVERY PROGRAMS
December 1, 2005

Statement of Purpose

The Upper Colorado River Endangered Fish Recovery Program and San Juan River Basin Recovery Implementation Program have a multi-stakeholder structure in which federal and state agencies work with public and private entities to recover the endangered fishes in a manner that is consistent with federal, state and tribal laws. Although their structure and goals are similar, the Recovery Programs each continue to operate independently, working with their own program partners and governing committees to fulfill requirements detailed in their respective cooperative agreements. (See page 7 for list of Recovery Program partners.)

Both Recovery Programs operate under similar recovery elements with management actions that are consistent with the August 1, 2002, recovery goals for humpback chub, bonytail, Colorado pikeminnow and razorback sucker. Funding for capital construction projects and ongoing operation and maintenance is authorized in federal legislation through enactment of public laws 106-392 and 107-375. Competition for legislative support at both state and federal levels continues to increase. This puts added pressure on the Recovery Programs to work cost-effectively and efficiently and to document and report measurable outcomes.

The Recovery Programs' continued success depends on coordinated efforts in many ways such as sharing research findings and technical expertise in common pursuits including: nonnative fish management, endangered fish propagation and stocking, habitat restoration, and population monitoring.

Communication and outreach are areas where it makes sense to coordinate efforts. Using a shared approach will help ensure that common audiences receive accurate, consistent information about the endangered fish species and efforts to recover them. These audiences include the general public, elected officials, American Indian tribes, landowners, anglers, river rafters and guides, environmental organizations, water and power developers, teachers, students and Recovery Program participants. Although the geographic reach of some of these audiences differs by Recovery Program, it is thought that the majority of people who fall into these categories are interested in the recovery efforts taking place for both programs.

This proposal recommends that five outreach projects be coordinated in FY 2006 and 2007 to achieve communication and outreach goals for both Recovery Programs.

1. Briefing Document

For the past six years, the Upper Colorado River Recovery Program has worked with the San Juan River Recovery Program to produce an annual *Program Highlights* briefing document that presents budget and

program highlight information for both programs. This document was developed for the partners' use in meeting with elected officials and their staffs and other state and community leaders. The document is also distributed to members of each program's committees and distributed at public meetings, events, and exhibits. Its design includes pockets in the front and back which allows contents to be customized for specific needs such as serving as a press kit to inform the news media and others about recovery goals, nonnative fish management or other specific recovery activities. To date, the Upper Colorado River Recovery Program has covered the annual production cost which runs about $10,500 per year for graphic design, layout, and printing.

2. *Swimming Upstream* Newsletter

The Upper Colorado River Recovery Program produces a newsletter each fall entitled, *Swimming Upstream.* Newsletter content includes photos and articles about the endangered fish species and efforts to recover them. Articles also highlight people who are working to recover the fishes and include human-interest stories that try to raise interest in, and understanding of, the Recovery Program.

About 9,000 copies of each newsletter are distributed to target audiences that include: elected officials; Recovery Program partners/committee members and interested parties; the general public who have asked to be on the mailing list; the general public who pick them up at visitor centers in communities along the Colorado River; commercial rafting guides; the Business Committee of the Ute Tribe of the Uintah and Ouray Reservation; participants at water development conferences and other events where the Recovery Program participates such as water festivals. The newsletter is also frequently included as an insert in the *Program Highlights* briefing document.

This publication could be integrated with minimal additional cost and would include a new masthead and articles and photos that highlight both programs. Distribution would expand to include contacts for the San Juan River Recovery Program.

3. Exhibit

The Upper Colorado River Recovery Program has two identical, freestanding exhibits. One has been in place at the Museum of Western Colorado in Grand Junction for several years and is in mint condition. The second has been used at numerous water development conferences, water festivals, and other general public events and will soon need some repairs. These exhibits are approximately 10 feet wide and 8 feet tall with shelf brackets that extend off the frame to accommodate four large, cutout-shapes of the endangered fish. These exhibits require training to learn to set them up and take them down as well as special accommodations to transport the packing cases when traveling by vehicle.

It is recommended that a new freestanding exhibit (similar to the one described above) be designed and produced to represent both Recovery Programs. This exhibit could be used to represent both Recovery Programs at water development conferences where the Upper Colorado River Recovery Program already exhibits each year. These include: Colorado Water Congress (Denver in January); Utah Water Users (St. George in March); Colorado Water Workshop (Gunnison in July every other year); Wyoming Water Association (Casper in October every other year); Colorado River Water Users Association (Las Vegas in December). The exhibit could also be used at any new conferences where the San Juan River Recovery Program would want to participate.

In addition to producing the large exhibit, both Recovery Programs would benefit by having a smaller, more portable display that could be easily transported, set up and taken down. The small display would be used in instances that don't warrant setting up the large display. For example, the small display would

be ideal for a one to two hour public meeting, a water festival for students, or an outdoor event where the larger display could be damaged by exposure to the sun, wind and rain.

In anticipation of moving toward integrating exhibits, Upper Colorado River Recovery Program staff are presently working with the San Juan River Recovery Program Coordinator to make slight modifications to the Upper Colorado River Program's large exhibit to include partner names for both programs and to produce a portable display for the San Juan River Program that will be used at the Colorado River Water Users Association Annual Meeting in Las Vegas, December 14-17, 2005.)

4. Brochure

The content of the Upper Colorado River Recovery Program's four-color brochure, *Swimming Upstream*, is outdated and has not been used the past five years. During that time, the Information and Education Committee considered updating and reprinting it, however, this project was deferred due to other budget priorities. The brochure is now budgeted to be produced in FY 2006. The intended audiences for this publication primarily include: the general public who pick them up at visitor centers in communities along the Colorado River; commercial rafting guides; participants at water development conferences and other events where the Recovery Program participates such as the Utah Rivers and Wildlife Festival and other water festivals.

It is recommended that the brochure be developed to serve the communication/outreach needs of both Recovery Programs and that the distribution include similar target audiences in the San Juan River Basin.

5. Websites

Both Recovery Programs presently maintain their own websites with technical support from the U.S. Fish and Wildlife Service regional offices in Albuquerque and Denver. It is recommended that the Recovery Programs explore the feasibility of integrating these websites. At a minimum, it is recommended that the San Juan River Recovery Program pursue having its public web address be changed to a more user friendly URL: SanJuanRiverRecovery.fws.gov. (The Upper Colorado River Recovery Program's web address is: ColoradoRiverRecovery.fws.gov. This was a simple change that required the Fish and Wildlife Service technical support staff to register the new name and use it to "point" to the old address. Now, both addresses are interchangeable.)

The San Juan Program will maintain its website independent of the outreach proposal and the cost shown in the budget is Upper Colorado River Recovery Program.

Budget

6. PROJECT	7. UNIT COST	8. FY 2006 (Total)	9. FY 2007 (Total)
10. **Newsletter (*Swimming Upstream*)**	12. Printing: Size: 33" x 16" ; b&w w/photos; qty: 11,000 = $5,230; Design/layout (18 hrs @ $75/hr. = $1,350; Label/Tab/Meter qty: 3,500 = $500; Postage: 3,500 @ .67 = $2,345	13. 14. $9,425 15. 16.	17. 18. $9,425
19. **Congressional Briefing Document (Program Highlights)**	20. Printing: Pocketfolder cover + 20 pgs. (16 b&w w/photos, 4 color), size 9x12, qty: 1,700 = $9,200 21. Design/layout: 24 hrs @ $75/hr. = $1,800	**22.** 23. $11,000	24. **25.** $11,000
26. **Website design**	27. Cost to be determined once the nature of the planned work is defined. Estimate is for contract labor (40 hrs./$100=$4,000)	28. 29. $4,000**	30. 31. $4,000**
32. **Brochure**	33. 9x16" flat (9x4" finished), roll-fold, 4- color w/photos; qty: 5,000; Design/layout: 20 hrs. @ $75/hr. = $1,500 34. Printing: $ $1,600	**35.** 36. $3,100	37. 38. 0
39. **Exhibits**	40. Design/Produce exhibit (approximately 8 feet tall and 10 feet wide), and accessories to include: frame, light kit, carrying cases. 41.	**42.** $10,000	43. 0
44. **Banner Display** **45.**	46. Design/Produce banner display for each program ($700 each)	47. $1,400 48.	49. 0
50. Exhibit Fees	51. Vendor fee plus noted expenses: • CO Water Congress, Denver - $635 (inc.membership fee) • CO Water Workshop, Gunnison - $350 • CO River Water Users, Las Vegas - $1,880 (inc. electricity/shipping) • UT Water Users, St. George - $995 (inc. electricity/shipping) • WY Water Assoc., Casper - $50 • San Juan Water Commission -Water Fair - $500 52.	53. $3,910 **54.** **55.** **56.** **57.** **58.** **59.** **60.** **61.** $500 **62.**	63. $3,910 64. 65. 66. 67. 68. 69. 70. 71. 72. $500
73. Exhibit	74.	**75.**	76. $2,000

6. PROJECT	7. UNIT COST	8. FY 2006 (Total)	9. FY 2007 (Total)
repairs/replacement			
77. Totals	78.	79. **80. $43,335**	81. **82. $30,835** **83.**
84. San Juan Program Cost		**85. $19,918**	**86. $13,668**

ENDANGERED FISH RECOVERY PROGRAM PARTNERS

San Juan River Basin Recovery Implementation Program

The San Juan River Basin Recovery Implementation Program is a cooperative partnership established in 1992 with the signing of a cooperative agreement to recover Colorado pikeminnow and razorback sucker in the San Juan River Basin while water development proceeds in compliance with all applicable federal and state laws, including fulfillment of federal trust responsibilities to Native American tribes.

Jicarilla Apache Nation
Navajo Nation
Southern Ute Tribe
Ute Mountain Ute Tribe
State of Colorado
State of New Mexico
U.S. Bureau of Indian Affairs
U.S. Bureau of Land Management
U.S. Bureau of Reclamation
U.S. Fish and Wildlife Service
Water Development Interests

Upper Colorado River Endangered Fish Recovery Program

The Upper Colorado River Endangered Fish Recovery Program is a cooperative partnership established in 1988 with the signing of a cooperative agreement to recover the humpback chub, bonytail, Colorado pikeminnow and razorback sucker in the Upper Colorado River Basin, while water development proceeds in accordance with state and federal laws.

Colorado River Energy Distributors Association
Colorado Water Congress
National Park Service
The Nature Conservancy
State of Colorado
State of Utah
State of Wyoming
U.S. Bureau of Reclamation
U.S. Fish and Wildlife Service
Utah Water Users Association
Western Resource Advocates
Western Area Power Administration
Wyoming Water Association

87.	PROJECT	88.	UNIT COST	89.	FY 2006 (Total)	90.	FY 2007 (Total)
91.		103.		**109.**		119.	
92.	Educational Materials	104. 105.		110. 111.	$8,970	120. 121.	$4,970
93. 94. 95. 96. 97. 98. 99. 100. 101.	Trading cards Magnets	106.	4 versions; 4-color; 100,000 each: 50/50 cost share with CO Division of Wildlife = $4,000	112. 113. 114. 115. 116. 117. 118.	(Trading cards, Magnets, and Stickers)	122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133.	(Magnets & Stickers Only)
102.	Fish stickers	107.	4 versions; 3 ½ x 2”, 4-color, 2,500 ea. =$2,495				
		108.	85 rolls/alternating designs/ 2x4”, 4-color = $2,475				

Attachment 5

To: SJRIP Coordination Committee

From: Mark McKinstry, David Campbell, Jim Brooks

Date: November 23, 2005

Subject: Razorback sucker augmentation and propagation

Background
For the last three years the NAPI Ponds have produced ~ 3,000 razorback suckers/year (300-350 mm) for stocking into the San Juan River. The Program's goal for razorback sucker augmentation is 11,400, 300-350 mm fish/year, thus there is a shortage of approximately 8,000 fish /year. An ad-hoc group of the SJRIP BC was tasked with developing alternative solutions to this issue. The group consisted of David Campbell, Jim Brooks, and Mark McKinstry with additional participation by Chuck McAda, Dale Ryden, and Manuel Ulibarri. To determine the interest and potential of other hatcheries to provide the additional razorback suckers Jim Brooks sent out an email on 10/21/2005 as a request for information (RFI). This RFI went to fish hatcheries throughout the region (Willow Beach, Dexter, Ouray, Monte Vista, Wahweap, and 24 Road). Several fish hatcheries responded with more information and provided estimates of both capital and O&M costs for producing razorback suckers >350 mm (Table 1).

O&M costs at NAPI Ponds are ~ $150,000/yr and the SJRIP just approved a project for aeration and bird control for $186,000. The availability of electrical power to the site is uncertain at this time since Keller-Bliesner has had some difficulty in securing the right-of-way easements for a powerline (there is no existing power at the site). Power via wind or solar are alternatives that can be considered but were rejected previously due to vandalism and reliability (i.e. aeration needed when it isn't windy) concerns. Additionally there has been some difficulty in staffing the ponds with a pond manager for day-to-day operations and maintenance.

Other Considerations
The Coordination Committee determined that endangered fish propagation and stocking were inherently governmental responsibilities of the State and Federal Agencies participating in the Program. As such, Reclamation can do the acquisition through an Interagency Agreement.

In the case of Dexter NFH, Reclamation already has a contact in place that could be modified and Reclamation's Acquisition Department has determined that this would be okay. The Biology Committee has recommended that 300 mm fish be produced since it will reduce grow-out times and decrease costs. There is ongoing discussion on the need for 11,400 fish/year, but the Biology Committee determined that the Program should continue with this recommended stocking number until more information on survival rates becomes available. The Biology Committee also recommends, at this time, that we continue using the NAPI Ponds to produce a supplemental source.

Decision
1. Does the Coordination Committee want to pursue a contract to produce more razorback suckers?
2. If so, should Reclamation do this as a RFP or Sole Source Interagency Agreement?
3. What should be our long-term strategy for NAPI Ponds?

Table 1. Razorback Sucker Production Estimates

134.	Fish Hatchery	135.	Number of Fish	136.	Capital Expenditure	137.	O&M Costs (annual)	138.	Time to Produce Fish	139.	Comments
140.	Ouray, CO	141.	5,000 (350mm)	142.	$700,000	143.	$93,000	144.	20-24 months	145.	Already have broodstock; need new tanks and pumps and eventually a new building;
146.	Ouray, CO	147.	5,000 (300mm fish)	148.	$420,000	149.	$66,000	150.	18 months	151.	New building and infrastructure would be smaller and less expensive with smaller fish;
152.	Willow Beach, CA	153.	5,000 (350mm)	154.	$660,650	155.	$167,310	156.	18-24 months	157.	Willow Beach currently produces > 10,000

											razorback suckers > 350 mm for the MSCP
158.	Dexter/Uvalde, NM, TX	159.	12,000(350mm)	160.	$386,800	161.	$114,244	162.	18 months	163.	Dexter has broodstock; growing season is long in Texas; work will be done at Uvalde through contract with Dexter
164.	24 Road, CO	165.	5,000(350 mm)	166.	$650,000	167.	$115,000	168.	18-24 months	169.	Have history of providing 15,000 + fish to UCRIP; need a new building; have a new distribution truck