

July 16, 2009

Biology Committee Draft Meeting Summary
Doubletree Hotel, Grand Junction, Colorado, July 13-14, 2009

Biology Committee: Dave Irving, Melissa Trammell, Pete Cavalli, Krissy Wilson, Dave Speas, Shane Capron, Tom Pitts, and Tom Nesler. The environmental groups and CREDA were not represented at the meeting.

Other participants: Sarra Jones, Angela Kantola, Tom Czapla, Tom Chart, Trina Hedrick, Dana Winkelman, John Hawkins (representing CSU), Travis Francis, Kevin Bestgen (via phone).

Assignments are indicated by “>” and at the end of the document.

Monday, July 13

CONVENE 1:00 p. m.

1. Review/modify agenda – The agenda was modified as it appears below. Krissy asked for discussion of uses for excess bonytail, if available.
2. Approve: 1) Biology Committee [April 20 web conference](#) summary - Approved with inclusion of Tom Nesler’s comments on page 1 under item #4 (see below) and 2) June 30 conference call summary – **Approved** with minor changes.
“Tom Nesler agreed that we might examine the **causal** differences **in trends** between the two populations; but **we should not expect synchrony in trends**; clearly promoting more strong or moderate year classes **in each subbasin** is helpful. The ad hoc population monitoring committee may want to discuss the differences in the populations. The Committee approved the report with the few minor revisions mentioned above; >Doug will provide a final version by July (if not sooner).”
>Angela Kantola will post the revised summary to the listserver (*done*).
3. Review assignments – The status of assignments is annotated at the end of this summary.
4. Humpback chub workshop update - Tom Czapla e-mailed a meeting summary to the Committee on July 10. Tom Czapla summarized the main purpose of the workshop was to review results of recent Desolation/Gray humpback chub population estimates (declining trend). Dave Speas thought the workshop did not conclude with clear direction; therefore, we need to determine what comes next. According to the biologist’s best judgment, the latest Deso/Gray estimate does appear to represent a real decline (although the estimate’s *accuracy* is suspect, Paul Badame feels confident about the overall trend). Shane suggested asking Lou Coggins about potential similarity between the recent Deso/Gray data and the Grand Canyon 2002-2003 data. Krissy noted Rich Valdez’ mention of remote PIT-tag antennas in Grand Canyon now picking up fish which haven’t been detected for ~18 years. Paul Badame plans to re-analyze the Deso/Gray data by sectional estimates and has recommended returning to a CPUE measure for the four core sites plus the other sites. Tom Chart thought chubs might now be responding to the 2008 and 2009 water years, and suggested that a fall 2009 trip could provide 1) baseline age-0 chub data to compare with 1992-1996; and 2) an opportunity to work out logistics of bringing some age-0 fish into captivity (which likely would require helicopter

transport). Reclamation has a helicopter/pilot that have done similar work in the lower basin. >UDWR will consider modifying their existing SOW for this purpose. >The PD's office will investigate the need for permits and NEPA compliance. Questions were discussed at the workshop regarding the Program's current approach to estimating humpback chub population size, which will be directed to Gary White (CSU). Gary will receive \$5K under the Black Rocks SOW to start this analysis with Black Rocks (and perhaps Westwater) data. > The PD's office will communicate with Gary to determine how many and which of those questions to focus on. If possible, how might we proceed with a more in-depth analysis? The Committee agreed that we should go ahead and finalize the past due Westwater Canyon (2003-2005) population estimate report and the >PD's office will distribute the report to the Committee to get it back in the final approval process (*done*).

5. Discussion and review of FY 10-11 scopes of work – Angela Kantola posted draft budget tables and the link to [the draft scopes of work](#) to the listserver on June 19, 2009. The PD's office suggested that in future years they will coordinate with Reclamation prior to this meeting to review budget detail. >The PD's office will work with PI's to:
 - Check for cut-and-paste errors
 - Make sure information in the SOWs is consistent with annual reports, synthesis reports, etc. and delete/replace information that is no longer relevant. (SOW #98a had a section showing changes from the previous FY which was helpful.)
 - Make sure all applicable SOWs show submittal of data to GJ-CRFP by March 1 of each year.
 - Check annual report dates.
 - Review budget detail to make sure it meets requirements outlined in Program Guidance. (Based on subsequent communication with Dave Speas, the PD's office also will work with PI's to: 1) check that travel and per diem do not exceed federal standards (www.gsa.gov) without up-front justification up front; 2) make sure that if a subcontract element constitutes the majority of the work (e.g., FISHBIO in the weir study), it has the same level of detail as would be requested of everybody else; and 3) make sure not to identify something like "O/M" as a single line item (as for the Ouray well work) when in reality it includes labor, parts and rental fees.

>The PD's office also will compile a list and justification of additional capital project needs (e.g., weirs, hatchery residences, rearing ponds, humpback chub capacity, floodplain work, remote pit-tag arrays, etc.)

Project-by-project SOW comments:

I. Instream Flow

19. Task 2. The PD's office and Jana Mohrman will continue to support the Utah ES Field Office in their involvement on the Flaming Gorge Technical Work Group. In the 2011 SOW, Jana needs to include gages and evaluating the temperatures. >The PD's office will work with Dave Speas to review and tabulate the terms and conditions of the Flaming Gorge Biological Opinion (BO) and the Program's involvement.

With regard to PIT tag/GIS database, the BC recommended that Jana contact Travis Francis on his experience querying database for multiple tags.

NEW White River PBO - begin after the Aspinal BO is completed, perhaps beginning in 2010.

II. Habitat Restoration

C-4b CRFP – Grand Junction needs to explain the difference in the duration of operations at Redlands vs. Grand Valley fish passage.

C-6 Easement – At a minimum, revise the SOW to more clearly identify what activities are being done. Look at the recommendations from the annual reports because some of them seemed very important. Compile a list of activities in the SOW of things that need to be done. Due to uncertainties of what is being done to manage these floodplain easements, the PD's office proposes turning the entire funding obligation over to FWS Refuges in 2011. Dave Speas suggested these properties could be managed by the Service's Fishery Resources Offices. >The PD's office will discuss this option with Refuges and other Service offices. The project is behind in their annual reports and the amount of work required on these easements. Funding in 2010 is in *Placeholder* status.

Hydrology – The \$20K identified in 2010 is for on-site rehabilitation at Audubon and the Butch Craig site. The same amount in 2011 is included to cover potential future surveying. Tom Chart will revise the SOW in advance of the Management Committee meeting. 2010 funding targets Task 4 only. The Committee asked if the rehabilitation work might be an appropriate use of capital dollars. The Committee should revisit the topic of further surveying of levee breaches after they have seen the floodplain synthesis report.

RZ-RECR – Hatchery fish were stocked again in spring 2009. The Committee considered extending this study because: 1) it is actively maintaining good water quality in an important nursery habitat, 2) we now have the PIT antennae functioning, 3) we are gathering good information with relatively little effort. The Committee considered deployment of antenna in the floodplain overwinter. In section 3 (page 2), clearly separate activities in 2009 and 2010, same at the bottom page 3; section 8 (page 6) double check the report due dates for clarification. >UDWR and the CRFP offices agreed to review all their SOWs (and revise as necessary) so that vehicle mileage is calculated consistently within each agency.

III. Reduce Nonnative Fish Impacts – Tom Chart recognized that the 2010-2011 SOWs for the most part duplicate 2009. We need to keep in mind that all the NNF SOWs are subject to revision as result of the December workshop. >Tom Nesler will ask Sherman Hebein why indirect rates are characterized differently in some SOWs why they apply only to seasonal technicians. The need for individual project synthesis reports remains undecided (SOW #140 references this on page 2 by saying “If another such effort is planned during this fiscal period, the

budget will need to increase in that year.”) The Committee agreed to look for direction on this as we proceed through the programmatic synthesis. >All NNF PI’s should specifically identify in their SOWs if fish community information is being collected.

- 98a Check the fiscal years and make sure the work matches up (pages 7, 9 and 10; Section 9). An informal survey of Upper Basin researchers indicates GPPs are lasting about 5 years, and therefore replacement costs will appear in SOWs at roughly this frequency >Tom Chart will investigate potential cost savings should the Program purchase GPPs/generators in bulk. Dave Speas appreciated the retrospective (Section 9) of how this project has changed through the years. Also check the validity of this section including that the 65% exploitation rate is for smallmouth bass not for northern pike. Reaches 1 and 3 need to be defined (using river miles).
- 98b Vernal CRFP should clearly state that their NP mark-recapture information will be submitted to CDOW for a river-wide (upstream of Yampa Canyon) population estimate. Equipment and maintenance costs of \$10K need to be itemized as best as possible. More detailed information reduces the chance that transfers of Reclamation funds could be delayed. [Note: Dave Speas suggested that the level of detail in provided in the Project 125 budget was very good].
- 110 Add a sentence (top of page 4) to indicate that tagging chubs (>150 mm TL) in 2009 was considered a pilot effort. The PI’s will determine if it can continue in out-years. The list of SOW reviewers may be out of date.
- 123a Footer needs to be changed from 123b to 123a. Are spawning areas and locations actually being determined without otolith or other aging information? Are we really looking at length at age data to track cohorts at early life stages? PI’s should consider clarification.
- 123b See generic vehicle mileage comment above.

Tuesday, July 14

CONVENE 8:00 a. m.

- 125 ‘River-wide’ population estimates for smallmouth bass are actually only Yampa Canyon – clarify. Remove ‘if possible’ in the 1st objective. Remove undefined asterisks in budget or provide clarification.
- 126 Include a more precise description of what will actually occur in 2010 and 2011. There is a good description of past years through 2008, but this could be summarized or placed in an appendix to allow the reader to focus on the current objectives and methodologies. Provide more detail on vehicle / mileage costs.
- 126b Delete the reference to ‘CDOW seeking cooperation with LMB translocation’.

- 140 Page 3. Provide a more concise explanation of the relationship of these study objectives with those of companion study Project 125, with respect to SMB removal. Consider condensing paragraphs under Study Methods and Approach.
- 154 BC appreciates the ‘in-kind’ contributions. This SOW should include activities in 2011, if any are being considered. Along those lines, the BC suggested that in 2011 the Ute Tribe might consider sampling the lower 20 miles of the White River to determine if SMB are a problem. Trina Hedrick reported that under their Three Species Program, UDWR is doing some sampling in a limited reach on the White River and SMB do not appear to be a problem. The Program also is monitoring this potential threat indirectly via CPM population estimates. >The PD’s office, Vernal CRFP and UDWR will coordinate with the Ute Tribe (Jay Groves) to see if there is interest in a greater level of sampling on the White River.
- 157 This SOW, even in this placeholder status, should recognize that locations on the Yampa River will also be considered for installation of a weir. Tom Nesler asked how UDWR intends to determine effectiveness. Electrofishing CPE data are available for much of the Duchesne River, which could serve as a basis for such a comparison. Include placeholder activities for 2011. Specify when the weir would be removed. There was some discussion of whether this could be an appropriate use of capital \$\$ at some point in the future. Tom Pitts reminded the group that the Recovery Program has a general 404 permit in place that could come into play here. >The PD’s office will include the Committee on e-mails re: schedule/logistics of weir site visits the first week in August.
- 158 Green River backwater study - Trina mentioned that the treatments may change in 2010, but it is too early to determine. See generic vehicle mileage comment above. Tom Nesler asked UDWR to clarify how effectiveness will be determined.
- 161 Programmatic synthesis – will be discussed later. Include the detailed budget from the original proposal into this Recovery Program SOW.

C-18/19

Annual Report is due in November.

C-20 Capital funds are identified on the cover page – change to ‘other funds’.

FR-115

Re: Objectives 4 and 5: will there be another synthesis report similar to the one completed two years ago? Kevin Bestgen indicated that he provided final / synthesis reports in both 2006 and 2007; the former focused on an interim evaluation of the Green River flow recommendations; the latter focused on the nonnative removal aspects. He was uncertain about the synthesis reporting schedule. Dave was interested in how the flow recommendation evaluation component of this study might assist with the ROD commitments. This

discussion underscored the need for a more detailed accounting of Recovery Program commitments associated with Flaming Gorge environmental compliance.

Bio Control Symposium Support

Dave Speas mentioned that as a commitment under a Biological Opinion, Reclamation will contribute (~\$20K) to this symposium. The Recovery Program will keep that in mind as this symposium comes together, but the Committee thinks it important that Program support for this symposium be recognized.

IV. Propagation and Genetics Management: All propagation activities should be well-coordinated with the SJRIP

29 O&M Facilities

Tom Czaplak indicated that there is a growing list of potential capital needs (e.g. additional ponds, residences, etc) for the hatcheries; he'll develop a list for Program consideration.

29a Grand Valley

There was a question about the standard language that these budgets may be scrutinized in the future. Angela said this referenced discussion with the acting Grand Junction Project leader regarding increased budgets in earlier versions of SOW. The total costs reflected in the current GJ-CRFP SOWs should be accurate, though there could be some adjustment among those SOWs.

29b Ouray

PD's office will determine how to target (FWS or BOR) 'well maintenance' charges. Melissa asked if there should be tasks associated with experimental stocking (e.g. Stirrup). Dave Irving will include a brief reference to these activities (no additional costs).

29c Wahweap

Krissy Wilson mentioned that there was still some concern over budget cuts in 2009, but UDWR was able to secure some sportfish \$\$ to partially offset those impacts. Krissy was contacted by Tom Burke (BOR-Lower Basin) with a request to rear razorback sucker for the MSCP. Dave Irving indicated that he had been contacted as well. There may be some flexibility in current operations at Recovery Program facilities to assist the MSCP, but it is difficult to commit longer term. >Tom Czaplak and Dave Speas will contact Tom Burke to get a better sense of the MSCP hatchery production needs.

V. Research, Monitoring & Data Management

16 Change the reference to 'overhead' charges in the budget to 'travel and supplies'.

22f Budget is varies in detail, itemize as much as possible. Update the title of this project and move reference to ISMP to Study Description.

127 Add a paragraph that reiterates the results of the most recent population estimate

report. Provide a more detailed description of tasks. The language regarding the discontinuation of ISMP (on pg 2) may be out of date – consider deleting.

- 129 See generic vehicle mileage comment above.
- 130 See generic vehicle mileage comment above. Task 2 dates should be January 15, 2010 and 2011. Page 4, task 3 reads 2008 needs to change to 2010.
- 131 The delayed mortality study needs more detail and description; should be recognized as a separate task. Although the Committee saw many potential complications with this investigation (e.g. live cages, transport to Horsethief, etc.), they thought the PI's should be able to address these. The Committee was very interested in this investigation. Shane Capron suggested that the PI's review Teresa Hunt's related study of handling stress (ASU; Masters'; sponsored by AFGD).
- 132 Break out equipment requests as much as possible (see Program Guidance on budget detail). Itemize equipment needs in task 1, as much as possible.
- 138 In study objectives 1 and 2, some clarification of number of backwaters being sampled is needed.
6. Disposition of excess bonytail – 8,000 fish to be stocked this year. Reproduction in the ponds has resulted in a year class that could be held in for a year and used in Iceberg Canyon proposal (which >Melissa will to send Krissy). >Krissy will check with Zane on sizes and potential numbers for each year class. Melissa is just asking for excess fish to the Program. All agreed that the priorities are as follows: 1) meet the Recovery Program's stocking goal (of which we are short 2,000 fish presently), 2) then fish for Iceberg Canyon (about 2,000-3,000), and 3) Baeser Bend.
7. Review/approval of revised Yampa Pike Sources report (R. M. Fitzpatrick and D. L. Winkelman. 2009) –Dana Winkelman said that Ryan Fitzpatrick's thesis objectives changed through time, unfortunately the Recovery Program SOW was not kept current. CSU only received \$10,000 for this project not the full \$20,000 as was expected. A full report with track changes will be provided by July 24th.
8. Humpback chub draft captive management plan – This plan is the initial development to meet requirements of Dinosaur National Monument to allow the Program to collect more Gila; a broodstock and propagation plan should follow. The Committee discussed this on 6/30 and Tom Czaplá sent revision that was commented on by Melissa Trammell and Tom Nesler. Tom Czaplá provided the Committee a final revision based on those comments on July 8th. The text in Task B-1 needs revision: “can't prevent loss by monitoring.”
9. Review reports due list –>Derek Elverud will provide the database for Westwater for Gary White to combine with Black Rocks, which will require a separate SOW. Desolation, Westwater, and Black Rocks all due on December 1st to coordinator. Project 138 – to the coordinator September 1, 2009. Project 85(f) – to technical and peer review

by September 1; PD's office will check with USGS on these dates. Cyprinid computer key expected 9/30; Kevin Bestgen will check on this. The floodplain inundation report is expected 10/30. Summarization of ISMP assessment will be coupled in to the floodplain inundation and therefore will be due 10/30 as well. >Angela Kantola will post a revised reports due list to the listserv.

10. Schedule next meeting – The next meeting was scheduled for 8:00-4:00 October 6th, DoubleTree Hotel (or the new Holiday Inn & Suites) in Grand Junction, CO. >The PD's office will arrange the meeting room.

ADJOURN 11:54 p.m.

Attachment 1

Assignments carried over or modified from previous meetings:

1. Tom Nesler will see if CDOW can provide a report on Billy Atkinson's work on pike in Catamount and the river below. Update provided at nonnative fish workshop; workshop participants recommended CDOW provide some kind of management plan. 1/17: Billy will provide a Catamount pike removal document/strategy by the end of February. 4/15: Nesler will provide update at BC. 4/28: Tom has reminded Billy that this is overdue and will try to get it to the BC as soon as possible. 6/13: Nesler received the draft today and provide it to the BC by the end of July. 8/18: Nesler will provide Billy Atkinson's upper Yampa "strategy" report to the Biology Committee by September 18 (Nesler's and Chart's birthday). 10/30: Tom Nesler and Sherm Hebein will revise Billy's report and provide that to the Recovery Program (Biology Committee, NNFSC, PI's, etc.) along with an outline of CDOW's strategy for nonnative fish management in the Yampa River above the diversions for discussion as part of the nonnative fish workshop. Tom Chart said it would be very helpful to have that outline before the December. 9-10 workshop. Sherm noted that Billy removed >2,000 np from Catamount this year (>4,000 np total). 1/15: The upper Yampa strategy has been separated out and provided to the Committee; Billy's report is still being revised. 2/20: outline strategy provided prior to last meeting; full strategy due May 1. Tom Nesler will check on the status of revision of the Yampa River Aquatic Management Plan. 4/14: Colorado's new completion date is May 1, 2009. (In the interim, CDOW will need to produce an Upper Yampa River strategy to assist the Program in our prioritization of 2009 field activities. This strategy should ultimately be incorporated into the Aquatic Wildlife Management Plan for the Yampa River Basin. 4/28: Tom Nesler said they don't plan to provide a formal strategy, but will describe what they [primarily Billy Atkinson] are doing down through Steamboat and with regard to isolating sloughs in Sam Finney's reach. See #3, above.) 1/15: The Upper Yampa strategy will be directly incorporated into the Yampa River Aquatic Management Plan (which will be completed by May 1, 2009). Tom Nesler will remind Sherm Hebein about this due date. 4/20: Tom Nesler said CDOW expects to meet this due date. 7/8: In CDOW review/revision with commitment to MC to provide by early July. 7/13: Draft will be available for internal review by mid-July. CDOW will send the draft out the States and Service (NNFSP) prior to Greg Gerlich's final approval.
2. The Program Director's office will work with CDOW and Aaron Webber on the potential for designing a permeable, hydrologically-stable (gravel?) berm to prevent northern pike access to the oxbow slough at RM 151 on the Yampa, and then clean it out once and for all. 2/15, 4/15: Pending. 4/28: Chart has discussed with Nesler and with the Partners for Wildlife Program, also. Will focus on this summer/fall. 6/13: CDOW will be contacting the landowner regarding access, if they are amenable, then CDOW and Program will determine a feasible solution (before the end of spring runoff). 8/18: Tom Chart said Sherm will try to get someone from CDOW on this as soon as possible. The Biology Committee would like a date certain on this; >Sherm Hebein will accelerate this. 10/30 said CDOW has contacted the property owners of the RM 151 backwater, but hasn't been able to meet with them yet. Mark Wernke from Reclamation is willing to take a look at the property with CDOW. A fairly long berm would be required (>3,000') and we'll need to determine the best type of berm (more permanent configurations could be very expensive). The funding source would need to be determined, with Partners for Fish and Wildlife, lottery funds, grant funds, etc. as

possible sources to be explored. 1/15: Tom Nesler said they plan to get engineers develop specs/estimates this spring for something like a 10-year berm structure; the next step will be to find funding (perhaps as a habitat project through GOCO). This would be the first of three or four such projects. Tom Pitts suggested that if the Program provides some matching funds (annual or capital), it might improve the probability of getting GOCO money. Tom also suggested that if we have a project in the hopper, we might be able to compete for end-of-year Reclamation funds. 2/10: The PD's office considers this a high priority and will contribute funds, if available (see revised FY09 budget). This project also was submitted in the Service's list of potential projects for the Economic Stimulus Package. 2/20: Recovery Program funds likely available; CDOW working to get engineers on the ground; Nesler considering different approaches (berm, fill the oxbow, etc.). Muth and Chart discussed with Uilenberg; Wernke available when landowner grants access. Bob Muth suggested Jeff Blakeslee of TNC may know the landowner. 2/20: The Program Director's office will contact Jeff Blakeslee, and then get back with CDOW and Reclamation on the Yampa habitat work. 4/14: CDOW is handling. 4/20: Tom Nesler said they've met with the landowner and Reclamation engineers will do an onsite survey as soon as the snow melts. 7/13: Reclamation engineers have not been on site. Tom Nesler will coordinate with Sherman after other State priorities (e.g. 98a report) have been accomplished.

3. Researchers are to submit all their nonnative fish data to Chuck McAda by April 1 (the Program Director's office will send out an e-mail notification on this). *Researchers need to have all their 2008 data IN THE CORRECT FORMAT to Travis by March 1, 2009 (data not submitted in the correct format will be sent back with a copy to the appropriate Biology and Management committee members). Similarly, Biology and Management committee members will be notified of any data not submitted by March 1. 2/10: Pending. PD's office will send out a reminder. 4/20: Data are still needed on project #98a; Tom Nesler will check with Sherman Hebein. 7/13: CDOW still has not submitted their 2008 data for Project 98a. Tom Nesler will provide a due date. 7/15: Data provided; complete.*

4. The Program Director's office and CDOW will send letters of thanks to Sherriff Tim Jantz for the use of the Craig Justice Center Ponds for nonnative fish translocation (with a cc: to the County commissioners and others, as appropriate). *Pending. 1/15: John Hawkins suggested a thanks to Ron Dellacroce and his supervisor in State Parks who provide a translocation site, facilitate our putting fish into Elkhead, and allow access to the boat launch areas critical to Yampa River management efforts. 2/10: Muth and Chart will work with Debbie Felker to get letters out prior to the 2009 translocations. 4/14: In draft. 4/20: CDOW crews have noted that Elkhead Reservoir is down, which should reduce nonnative fish escapement due to spill this spring. 7/8: The letter to Sheriff Jantz was sent in April; thank you / sampling season heads-up letters also sent to Sheriff Gary Wall (Routt Co.) and Sheriff Si Woodruff (Rio Blanco Co). in addition to Sheriff Jantz. E-mail sent to Ron Dellacroce (and others) expressing Recovery Program concerns over potential funding cuts to the Yampa River State Parks and why those parks are so important to recovery efforts. 1/15: Melissa suggested following up on signage at the translocation ponds acknowledging that the Recovery Program has provided the fish (but keeping in mind the concern re: potential elevated Hg levels; which CDOW will investigate). 2/10: Chart will discuss this with the I&E Committee at their meeting Feb 12, 2009. 2/20: The PD's office met with the I&E Committee last week; it was suggested that a sub-group of that Committee work with the Nonnative Fish Subcommittee to discuss/implement appropriate signage (keeping in mind on*

concerns regarding mercury levels). 4/14: Pending. 4/20: Tom Nesler said they first need to get the mercury results to determine if consumption advisories are needed. The nonnative fish subcommittee will discuss further, but not move forward until the mercury question is resolved. 7/13: Tom Nesler – CDOW will discontinue translocation of smallmouth bass to CJCP. CJCP will be reclaimed and turned over to trout fishery. Elkhead Reservoir will remain the primary translocation site (subsequent to spills or until the upper reservoir can be accessed). CDOW will continue to translocate NP to Headquarters Pond (Kyle's pond), Loudy Simpson, and State Wildlife Area ponds (subsequent to connection in the latter two locations). Also, no more translocation of NP from Catamount Lake – all lethal removal. Future actions will be contingent on further contaminant results. Elkhead Reservoir still under a public consumption advisory.

5. Within the next month, >the Service and Program Director's office will provide the Committee a draft addendum to the White River report that will present the measured flow requirements in a historical hydrologic perspective. The Program Director's office also will research where we left Schmidt and Orchard's draft report on peak (channel maintenance) flows and recommend whether to have it reviewed by the geomorphology panel. The Program Director's office will use the information currently available to >develop a position paper on Price River flow recommendations for Committee review. 10/16 Pending; out by the end of ~~November~~ 1/5: February 2009. 2/20: Bob Muth said he's making good progress on this and he'll have a draft to the Committee by ~~early March~~ end of April. 7/8: Mohrman and Chart expect to provide drafts of this and Price River report by the end of August 2009. 7/13: Dave Speas said the goal for the Narrows EIS is to get it out for public review in the fall, so the above schedule should work. The PD's office will keep the Service's SLC-ES Larry's shop in the loop on Price River.
6. Melissa believes an Environmental Assessment of the impacts of the Humpback chub captivity management plan (covers both humpback chub and roundtail chub) will need to be written; Krissy will work with Melissa on the EA. 7/13: Melissa needs to coordinate with the NPS if this is the case and she intends to do that in the next few weeks.
7. Krissy will provide Utah's Health Condition Profile to Tom Czapla. 4/20: Krissy has asked for a formal write-up from their hatchery folks. 7/13: Krissy will condense relevant information gleaned from hatchery managers and consider organizing workshop(s) in the future.
8. Aaron will provide more detail on the Baerer pump to Dave Speas as he receives it over the next few days. 4/14: FWS seeking bids. 7/8: Done and pump has been delivered. 7/13: Dave Irving will follow up on final 2009 funding.
9. Lower Green larval, juvenile RBS monitoring pilot study should say work will begin when water temperatures and flows are favorable." >Tom Czapla will work with Paul Badame to make that change. 7/8: Pending. 7/13 Tom Czapla will update the 2009 SOW to reflect language Paul included in the 2010-2011 SOW.
10. Tom Chart will work with Brett Johnson to revise (primarily budgets and inclusion of Red Fleet sampling) the 2009 C18/19 SOW to post to the web. Pending.

11. Doug Osmundson will provide a final version of the Colorado River pikeminnow population estimate report by July (if not sooner).
12. Tom Chart will ask Brett to include more detailed progress in the annual report as it applies to proposed revision / expansion of the C-18/19 project (as discussed during the 6/30 conf call).

New Assignments

1. UDWR will consider modifying their existing Deso/Gray HBC population estimate SOW to bring chubs into captivity. The PD's office will investigate the need for permits and NEPA compliance.
2. The PD's office will communicate with Gary White to determine how many and which of the questions from the HBC workshop to focus on.
3. The PD's office will work with PI's on SOWs to:
 - Check for cut-and-paste errors
 - Make sure information in the SOWs is consistent with annual reports, synthesis reports, etc. and delete/replace information that is no longer relevant. (SOW #98a had a section showing changes from the previous FY which was helpful.)
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The PD's office also will compile a list and justification of additional capital project needs (e.g., weirs, hatchery residences, rearing ponds, humpback chub capacity, floodplain work, remote pit-tag arrays, etc.)

Other, SOW-specific revisions should be noted in the foregoing summary and in the comments section of the budget spreadsheet.

4. The PD's office will work with Dave Speas to review and tabulate the terms and conditions of the Flaming Gorge Biological Opinion (BO) and the Program's involvement.
5. The PD's office will discuss options for managing floodplain easements with Refuges and other Service offices.
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14. Derek Elverud will provide the database for Westwater for Gary White to combine with Black Rocks, which will require a separate SOW.
15. Angela Kantola will post a revised reports due list to the listserver.
16. The PD's office will arrange the location for the next meeting (October 6 in Grand Junction).