

**Meeting Notes
Lewis River License Implementation
Aquatic Coordination Committee (ACC) Meeting
November 18, 2010
Ariel, WA**

ACC Participants Present (11)

Eli Asher, Fish Recovery Board
 Jeremiah Doyle, PacifiCorp Energy
 Diana Gritten-MacDonald, Cowlitz PUD
 Adam Haspiel, USDA Forest Service
 LouEllyn Jones, USFWS (teleconference)
 Eric Kinne, WDFW
 Erik Lesko, PacifiCorp Energy
 Jim Malinowski, Fish First (teleconference)
 Todd Olson, PacifiCorp Energy
 Arianne Poindexter, PacifiCorp Energy
 Shannon Wills, Cowlitz Indian Tribe (teleconference)

Calendar:

December 9, 2010	ACC Meeting	Merwin Hydro
January 13, 2011	ACC Meeting	Merwin Hydro

Assignments from November 18, 2010 Meeting:	Status:
New Information Regarding Fish Transport into Lake Merwin and Yale Lake - Todd Olson/Frank Shrier will follow-up with Michelle Day, NOAA Fisheries, to discuss the diversion at Speelyai and need for fish passage.	Pending
New Information Regarding Fish Transport into Lake Merwin and Yale Lake – PacifiCorp to provide information collected as part of relicensing.	Pending
Merwin Upstream Trap and Transport - Frank Shrier will rewrite the October 13, 2010, email directly to the services describing the project delay and requesting approval	Pending
Aquatic Fund 2010/2011 Proposals - ACC comments on pre-proposals due	Due 12/06/10
Aquatic Fund 2010/2011 Proposals – Utilities will notify recipients that full proposals will be due in January 2011.	Due 12/10/10
Speelyai Diversion Design – The project engineer will discuss the design with the ACC at the December 9, 2010 meeting	Due 12/09/10

Assignments from October 14, 2010 Meeting:	Status:
Adam Haspiel will follow-up with John Weinheimer about any regulation changes regarding adding Rush Creek to law enforcement	Pending

routes. Adam will also discuss regulation changes for Rush Creek and Pine Creek with John to better protect bull trout.	
PacifiCorp Energy will send those Aquatic Fund pre-proposals selected for consideration to the ACC group by early November	Complete
Eric Kinne will follow-up with Aaron Roberts regarding the <i>Swift Net Pens</i> and when the last possible date would be required for their use.	Complete

Assignments from April 8, 2010 Meeting:	Status:
Haspiel: Present more detailed design of the Pine Creek Instream aquatic fund project to the ACC when available.	Pending

Opening, Review of Agenda and Meeting Notes

Diana Gritten-MacDonald (Cowlitz PUD) called the meeting to order at 9:10 a.m., reviewed the agenda for the day and requested any changes/additions. Jim Malinowski requested that a discussion of nutrient enhancement be added to the agenda.

Gritten-MacDonald requested comments and/or changes to the ACC Draft 10/14/10 amended meeting notes. No changes were requested. The meeting notes were approved without further changes.

Future Fish Passage – Process and Study Identification

At the October 14, 2010, meeting, a presentation on a decision-making model was given by Darin Johnson, BIS Consulting, LLC. Todd Olson (PacifiCorp) solicited further discussion. Question posed, “How much habitat is available in Merwin and Yale reservoirs?” The ACC requested that the licensing information be summarized and presented at the December 2010 meeting.

Todd Olson/Frank Shrier will follow-up with Michelle Day (NOAA Fisheries) to discuss the need for fish passage at the Speelyai hatchery diversion.

LouEllyn Jones (US Fish and Wildlife Service) discussed the information needed before any decisions regarding additional studies could be made:

- 1) How much habitat is available
- 2) Would any of the restoration actions help create more habitat (i.e. Culverts providing connectivity)
- 3) Estimates of mortality or injury at the new Swift Downstream Fish Collector or Merwin Upstream Fish Collector
- 4) Risk/Benefits

Group requested a summary of the previously collected information.

The group will brainstorm what other information would be needed for risk/benefit analysis at the December 2010 meeting.

Merwin Upstream Trap and Transport Status

Frank Shrier (PacifiCorp) on October 13, 2010, distributed an email which identified delays in the project schedule. The current projection is that the trap will be partially operational by December 26, 2012 and fully operational by April 2013. The contractor has also requested approval for divers to perform in-water work anytime during the construction window. The USFWS has extended the in-water work period but PacifiCorp has not yet heard from NOAA Fisheries.

The ACC acknowledged that the delay is acceptable. Frank Shrier will rewrite the October 13, 2010, email directly to the services describing the project delay and requesting approval. PacifiCorp will then send a request to FERC to move the final completion date.

WDFW requested that during the period of partial operation, the outfall configuration be adjusted to properly utilize the 41 cfs for attraction.

Aquatic Fund 2010/2011 Proposals

Todd Olson informed the ACC attendees that PacifiCorp Energy is recommending 6 of the 7 pre-proposals move forward with full proposals. See email of November 12, 2010, containing the utilities comments on the pre-proposals and also requesting comments from the ACC by December 6, 2010. Olson provided a brief overview of the Utilities' comments.

The USDA Forest Service notified the ACC it is withdrawing the Rush Creek Side Channel Restoration project. The Forest Service is planning to review this proposed project in summer 2011 with WDFW and USFWS.

Other suggested edits to the Utilities' comments include the following:

- 1) 2011 Pine Creek Nutrient Enhancement by Snow cats and Snowmobiles: "Cost to benefit is relatively high and engages the local community." change to "Benefit to cost is....community"
- 2) Eagle Island Habitat Enhancement – Sites B and C: "This would complete the design that would hopefully keep the North Eagle Island channel open." This statement is technically unsupported.

Per the Lewis River settlement agreement, additional funds (\$300k adjusted for inflation) will be added to the accounts by April 30, 2011. Selection of the 2011 projects for full consideration will occur at the December 9, 2010, ACC meeting. Recipients will be notified after the December 9, 2010, meeting so they may complete and submit a full proposal in January 2011.

Acclimation Pond Plan

Discussion of Frank Shrier's November 12, 2010, email. Flow level-logger information indicated that in May the flow demand for the Acclimation Pond exceeded 40% of the base flow in Crab Creek 26 out of 31 days and exceeded 40% of the base flow 19 out of 30 days in June. Of the two options presented by Shrier's email, the ACC came to consensus on expanding the capacity of the Clear Creek and/or Muddy River ponds. However, the group requested a high-level feasibility report be prepared discussing the

risk/benefit of building a smaller capacity acclimation pond at Crab Creek before it is completely removed as an option.

Follow-up needs to occur with the Yakama Nation and NOAA Fisheries regarding this issue and the options.

Study Updates

Erik Lesko (PacifiCorp) presented a revised hatchery upgrade schedule (Dated November 15) and provided the following study updates:

Hatchery Upgrades –

Lewis River Hatchery Ponds 13, 14 & 16 – Ponds 13 and 14 are nearing completion. Schedule should have P14 finished by first week of December and P13 by December 15.

Downstream intake at Lewis River – There were no objections from the ACC regarding the proposal to move this project to 2012. FERC will be notified of the schedule change via the annual report.

Speelyai Burrows Pond – Ponds are watered up, walkways and safety railing needs to be secured. Modifications to Burrows Bank No. 1, with respect to uneven floors, have been resolved.

Merwin Rearing Ponds – Two ponds are operational. Remaining two ponds will be completed in 2011.

Merwin Adult Holding Ponds – Delays with respect to retaining wall construction, but project will be completed this year. No holding of fish needed until June or July of 2011.

Speelyai Intake – There were no objections from the ACC regarding the proposal to move this project to 2012. The project engineer will discuss the design with the ACC at the December 9, 2010 meeting.

Speelyai Kokanee Weir – Scheduled for completion in 2011

Swift Net Pens – Project is complete, functional and ready for hatchery use. Net pens are scheduled for use in 2011.

Hatchery & Supplementation Plan – Draft A subgroup meeting was held on October 29, 2010, discussing the draft Annual Operating Plans. Erik Lesko will submit a draft plan to the subgroup prior to the Thanksgiving holiday and request comments. Time is running out for the plan as steelhead collection and monitoring will be starting in early 2011. The plan is scheduled to be finalized prior to December 31.

Swift Downstream Collector – The construction contract with Natt McDougall was executed on November 2, 2010. Activities planned for 2011 include: mobilization to project area, construct barge shell and move to dam, and construct trestle.

Release Ponds 60% Design Comments and Status

PacifiCorp located a potential piece of property for this project and is working with the realtor to secure an option with the landowner. Once the option is secured the designs will be finalized and submitted to FERC, after which the property will be purchased assuming that price is comparable to assessed value.

New Topics

- *Nutrient Enhancement*: Fish First was disappointed in the number of fish received this year for in basin nutrient enhancement. Fish First requested WDFW provide an accounting of the fish carcass distribution for this year. Shannon Wills (Cowlitz Indian Tribe) reported that recommendations regarding the long-standing contract are being made to the State of Washington. Fish First is drafting a letter to FERC requesting that all Lewis River fish be kept in the Lewis River basin. Erik Kinne offered to meet with Fish First to discuss 2010 numbers. This topic will be discussed again at the December 2010 meeting.

Agenda items for December 9, 2010

- Review November 18, 2010 Meeting Notes
- Aquatic Fund Pre-proposals selection by the ACC
- Future Fish Passage – Process and Study Identification
- Acclimation Ponds Update and Discussion
- Speelyai Intake Engineering Design
- Nutrient Enhancement
- Study/Work Product Updates

Public Comment

None

Next Scheduled Meetings

December 9, 2010	January 13, 2011
Merwin Hydro Control Center	Merwin Hydro Control Center
Ariel, WA	Ariel, WA
9:00am – Noon	9:00am – Noon

Meeting Adjourned at 11:30 a.m.

Handouts/Summary Attachments

- Final Agenda
- Draft ACC Meeting Notes 10/14/2010 with suggested edits
- October 13, 2010 Shrier Email – Merwin construction schedule delays
- November 12, 2010 Shrier Email – SA 7.5.3.2 Utilities review of Lewis River CY2011 Aquatic fund Pre-proposals
- November 12, 2010 Shrier Email – Crab Creek acclimation pond
- Revised Hatchery Upgrade Schedule

From: [Shrier, Frank](#)
To: [Poindexter, Arianne](#);
Subject: FW: SA 7.5.3.2 - Utilities review of Lewis River CY2011 Aquatic fund Pre-proposals
Date: Wednesday, November 17, 2010 2:58:02 PM
Attachments: [11122010 LR - Lewis AQ Fund - Final Review of Pre-Proposals Memo to ACC.doc](#)
[11122010 LR - ACC Lewis River AQ Fund evaluation - 2010_2011 Utilities comments.xls](#)

From: Shrier, Frank
Sent: Friday, November 12, 2010 3:33 PM
To: Adam Haspiel; Athena Sanchez (pebbles@yakama.com); Bernadette Graham Hudson; Bighouse, Donna (DFW); Bill Bakke; Bob Rose (brose@yakama.com); 'Brett Swift'; Chris Maynard; Darlene Johnson; David Hu (dhu@fs.fed.us); Diana MacDonald; Doyle, Jeremiah (Jeremiah.Doyle@PacifiCorp.com); Eli Asher (easher@lcfwb.gen.wa.us); Frazier, Patrick A (DFW); HML LRN (Branz, Steve) (branzs@ci.woodland.wa.us); HML LRN (Morgan, Rhidian) (rmmorgan@plasnewydd.org); James Dixon (dixonjfd@dfw.wa.gov); Jeff Breckel; Jim Byrne; Jim Eychaner (Jim.Eychaner@rco.wa.gov); Joel Rupley; John Clapp; John Weinheimer; Kathryn Miller (kmiller@tu.org); Kinne, Eric B (DFW); Lesko, Erik (Erik.Lesko@PacifiCorp.com); LouEllyn Jones; Malinowski, James; Mariah Reese (M.Reese@tds.net); Melody Tereski; michael_hudson@fws.gov; Michelle Day; Nathan Reynolds; Nordlund Bryan (Bryan.Nordlund@noaa.gov); Olson, Todd (Todd.Olson@PacifiCorp.com); Pearce Paul (pearce@co.skamania.wa.us); Rich.Turner@noaa.gov (Rich.Turner@noaa.gov); Ruth Tracy; Ryan LaPoosa; Shannon Wills; Steve Manlow (smanlow@lcfwb.gen.wa.us); Susan Cierebiej (susan.cierebiej@dfw.wa.gov); Susan Rosebrough; Taylor Aalvik (taalvik@cowlitz.org)
Subject: SA 7.5.3.2 - Utilities review of Lewis River CY2011 Aquatic fund Pre-proposals

Attn: ACC Participants

In accordance with SA 7.5.3.2 - Resource Project Proposal, Review, and Selection please find attached a memorandum from the Utilities detailing its 2011 aquatic fund project pre-proposal evaluation and selections for your review. In addition, each project Pre-proposal can be located on the Lewis River website at the following link: <http://www.pacifiCorp.com/es/hydro/hl/lr.html#> click License Implementation, click ACC tab, click drop down for Aquatics Coordination Committee – 2011.

Hard copies of the Pre-Proposals are available upon request.

To meet the Funding Process Timeline as included in the Aquatics Fund – Strategic Plan and Administrative Procedures, **ACC representatives should provide comments and their project selections by Monday, December 6, 2010.** On December 9, 2010, project selection will be finalized during the ACC meeting. Soon after, the Utilities will request formal Proposals from identified

project proponents.

Thank you.

November 12, 2010

To: Memo to Lewis River Aquatics Coordination Committee representatives

From: Frank Shrier – PacifiCorp Energy and Diana Gritten-MacDonald – Cowlitz PUD

Subject: Review of CY 2011 Aquatic Fund Pre-Proposals

On September 3, 2010 PacifiCorp Energy announced the availability of funds for aquatic related projects in the Lewis River Basin (letter to interested parties from T. Olson). The letter requested that individuals or parties interested in obtaining project funding submit a Pre-Proposal to PacifiCorp Energy. Pre-Proposals were due by October 4, 2010. At that time and in following the Aquatics Fund – Strategic Plan and Administrative Procedures, PacifiCorp Energy and Cowlitz PUD (Utilities) reviewed the Pre-Proposals and, with this memo are providing the ACC with a recommended project list for further consideration. Following ACC review and agreement with this project list, PacifiCorp Energy will request complete proposals from selected project proponents. The schedule for proposal request is early December with complete proposals due in late-January 2011.

In response to the announcement letter, three entities provided seven different project Pre-Proposals. They include:

USDA Forest Service	Lewis River Side Channel Near Muddy River Instream Habitat Restoration
USDA Forest Service	Muddy River Side Channel Restoration
USDA Forest Service	Rush Creek Side Channel Restoration
USDA Forest Service	Muddy River Mainstem Channel Restoration
USDA Forest Service	2011 Pine Creek Nutrient Enhancement by Snowcats and Snowmobiles
Lower Columbia Fish Enhancement Group	NF Lewis RM 13.5 Side-Channel Habitat Enhancement
Cowlitz Indian Tribe	Eagle Island Habitat Enhancement - Sites B and C

PacifiCorp Energy and Cowlitz PUD subject matter experts have evaluated and scored the above proposals. Evaluations were conducted as outlined in the Aquatic Fund – Strategic Plan and Administrative Procedures document. For ACC review, the Utilities have attached to this memo an Evaluation matrix (Attachment to email). Costs for each project are also included. Individual Pre-Proposals can be viewed at the following link: <http://www.pacificorp.com/es/hydro/hl/lr.html#> click License Implementation, click ACC tab, click drop down for Aquatics Coordination Committee – 2011.

The Utilities evaluation suggests that while additional information is needed before a commitment of funds should be given, we propose that the following six projects be solicited to provide complete Proposals:

- USDA FS - Lewis River Side Channel Near Muddy River Instream Habitat Restoration
- USDA FS - Muddy River Side Channel Restoration
- USDA FS - Muddy River Mainstem Channel Restoration
- USDA FS - 2011 Pine Creek Nutrient Enhancement by Snowcats and Snowmobiles
- LCFEG - NF Lewis RM 13.5 Side-Channel Habitat Enhancement
- CIT - Eagle Island Habitat Enhancement - Sites B and C

The Utilities propose to not further consider the USDA FS project titled: 'Rush Creek Side Channel Restoration' because of concerns the USFWS has expressed previously for a similar project proposal.

For your information, PacifiCorp has included a financial reporting on the Aquatics Resource and Bull Trout (7.5) tracking accounts (Attachment 12) as of 10/31/10. I have also provided a short summary of the types of projects that have been funded.

The Utilities are submitting this document and attachments for review in hopes of reaching concurrence on projects for further consideration. If, in your review of the Pre-proposals, you have comments or questions to ask the Project proponent, please provide comments to me and we will include them in the formal Proposal request.

To meet the Funding Process Timeline as included in the Aquatics Fund – Strategic Plan and Administrative Procedures (see attached Table 4.1), **ACC representatives should provide comments and their project selection by December 6, 2010.** On December 9, 2010, project selection will be finalized during the ACC meeting. Soon after, the Utilities will request formal Proposals from identified project proponents.

Lewis River License Implementation
Lewis River Aquatics Fund - Resource Projects
Sections 7.5, 7.5.1, 7.5.3, 7.5.3.1 & 7.7

Funding Start Date: 4/30/05

Release Date	Funds Received	Expense	Interest	Balance	Notes
12/31/05				\$ 161,327.11	Contributions in 2004 dollars, adjusted for inflation.
4/30/06	\$ 212,172.03				
9/30/06		\$ 46,000.00			Muddy River Tributary Road Decommission - USDA FS *
12/31/06			\$ 24,305.00	\$ 351,804.14	
4/30/07	\$ 164,776.65	\$ 80,000.00			Fish Passage Culvert Replacement - USDA FS
8/23/07		\$ 79,000.00			2007 Dispersed Camping & Day Use Road Restoration - USDA FS
9/6/07		\$ 75,000.00			2007 Aquatic Funding Enhancement Projects - Cowlitz Indian Tribe*
12/31/07			\$ 29,954.06	\$ 312,534.84	
4/30/08	\$ 225,723.71				
7/3/08		\$ 34,000.00			2008 Clear Creek Road Decommission - USDA FS
7/3/08		\$ 117,000.00			2008 Muddy River Habitat Improvement - USDA FS
10/2/08		\$ 43,500.00			2008 Mud Creek Enhancement - Cowlitz Indian Tribe *
12/31/08			\$ 18,519.70	\$ 318,778.26	
4/30/09	\$ 230,341.27				
8/20/09		\$ 190,000.00			2009 NF RM 13.5 Habitat Enhancement - LCFEG
9/16/09		\$ 106,000.00			2009 Clear Creek Instream - USDA FS
9/24/09		\$ 33,000.00			2009 Spencer Peak Road Decommission - USDA FS
9/25/09		\$ 41,000.00			2009 Nutrient Enhancement Pine Creek - USDA FS
		\$ 50,000.00			2009 Plas Newydd RM 2.0 - Cowlitz Indian Tribe
12/31/09			\$ 11,154.16	\$ 140,273.69	
4/30/10	\$ 231,899.07				
4/30/10		\$ 74,300.00			2010 Eagle Island Habitat Enhancement - Cowlitz Tribe
4/30/10		\$ 41,300.00			Pepper-Lewis Side Channel - USFS
4/30/10		\$ 32,500.00			Pine Cr. Instream and Floodplain structures - USFS
10/31/2010			\$ 4,939.59	\$ 228,917.52	
Total Spent to Date:			\$ 1,042,600.00		
Balance Remaining:			\$ 228,917.52		

* Project close out complete

Lewis River License Implementation

Lewis River Aquatics Fund - Bull Trout
Sections 7.5, 7.5.1, 7.5.3, 7.5.3.1 & 7.7

Funding Start Date: 4/30/05

Release Date	Funds Received	Expense	Interest	Balance	Notes
12/31/05				\$ 161,327.11	Contributions in 2004 dollars, adjusted for inflation.
4/30/06	\$ 106,086.01				
11/30/06		\$ 37,889.08			Pine Creek Nutrient Enhancement - USDA FS
12/31/06			\$ 19,176.61	\$ 248,700.65	
4/30/07	\$ 163,897.54	\$ 25,000.00			Pine Creek Instream & Floodplain Structures for Bull Trout and Steelhead - USDA FS
7/31/07		\$ 20,000.00			Rush Creek Gravel Restoration - USDA FS
8/21/07		\$ 43,150.00			2007 Pine Creek Nutrient Enhancement - USDA FS
12/31/07			\$ 26,521.29	\$ 351,848.59	
4/30/08	\$ 112,673.98				
7/3/08		\$ 25,000.00			2008 Panamaker Crk. Rd Close & Culvert Removal - PacifiCorp *
12/31/08			\$ 21,138.69	\$ 460,849.14	
3/25/09	\$ 19,269.66				Return of funds: Rush Creek Gravel Restoration - USDA FS
3/31/09	\$ 23,493.72				Return of funds: Pine Creek Instream & Floodplain Structures for Bull Trout and Steelhead - USDA FS
4/30/09	\$ 230,341.00				
12/31/09			\$ 16,288.61	\$ 519,901.13	
4/8/10		\$ 32,500.00			Pine Creek Instream and Floodplain structures for bull trout and steelhead - USDA FS
4/30/10	\$ 231,899.00				
10/31/10			\$ 13,641.82	\$ 501,042.95	
Total Spent to Date:			\$ 183,539.08		
Balance Remaining:			\$ 501,042.95		

* Project close out complete

Summary Table of non-Bull Trout Aquatic Fund Expenditures

Enhancement type	2005	2006	2007	2008	2009	2010
Above Merwin						
Nutrient Enhancement					\$41,000	
Instream structures/Habitat				\$117,000	\$106,000	
Gravel Restoration						
Road Decommission		\$ 46,000.00		\$34,000	\$33,000	
Culvert Replacement/Removal			\$80,000			
Road Improvement			\$79,000			
Below Merwin						
Nutrient Enhancement						
Instream structures			\$75,000		\$240,000	
Gravel Restoration						
Road Decommission						
Culvert Replacement/Removal						

Summary Table of Bull Trout Aquatic Fund Expenditures

Enhancement type	2005	2006	2007	2008	2009	2010
Above Merwin						
Nutrient Enhancement		\$106,000	\$43,150			
Instream structures/Habitat						
Gravel Restoration						
Road Decommission				\$25,000		
Culvert Replacement/Removal						
Road Improvement						
Below Merwin						
Nutrient Enhancement						
Instream structures						
Gravel Restoration						
Road Decommission						
Culvert Replacement/Removal						

Table 4.1. Funding Process Timeline

Activity	Target Milestone Date
Submit Request For Pre-Proposal Forms	Early September
Pre-Proposal Forms due	Early October
Pre-Proposal Listing and Evaluation Report Submitted to ACC	Early November
Pre-Proposal Report Comments due from ACC	Late November
Finalize List of Selected Projects for Additional Consideration	Early December
Submit Request For Proposals to Selected Applicants	Early December
Proposals due	Mid January
Proposal Evaluation Report Submitted to ACC (30 day review)	Mid February
Proposal Report Comments due	Mid March
Finalize List of Selected Projects and Notify Project Funding Recipients	Early April
Contract Procurement	April
Submit Report To FERC	May
Funding Available for Invoicing	April

Lewis River Aquatic Fund - ACC Evaluation of 2010/2011 Project Proposals											
ACC											
Decision	Applicant	Project Title	WDFW	Fish First	LCFRB	Yakama Nation	USFS	Cowlitz Indian Tribe	USFWS	Utilities	Next Step
1	USDA Forest Service	Lewis River Side Channel Near Muddy River Instream Habitat Restoration								Question high admin costs (5%) and monitoring costs (4%), especially when the identified means of monitoring is via a stream team volunteer program. Also, complexity in this side-channel in the form of LWD is already decent, not quite sure it warrants spending 47k but still would like to see full proposal. What use is existing? Any surveys been completed? What is the current condition of the habitat? How does this channel behave during high flow events? Implementation does not occur until 2012. Costs seem to double-count similar. RECOMMEND FULL PROPOSAL	
2	USDA Forest Service	Muddy River Side Channel Restoration								1/3 of the costs are for personnel (12k) - seems unusually high and not the best way to utilize aquatic funds. Why is it so much cheaper to do these two side-channel projects as opposed to the one side-channel project in the previous proposal? Also, question how long structures will stay in place due to the wide flood-plain and nature of this river. Other than the above issues, intent of the project is sound. Excavator & skidder contract makes sense; need more info on role of logging & hauling trees. Documented fish use? Limited benefits due to location in watershed. Does temperature and flow information exist? Concerned about stability of the Muddy River channel. Perhaps this should be a pilot study similar to a previous Pine Creek approach. RECOMMEND FULL PROPOSAL	
3	USDA Forest Service	Rush Creek Side Channel Restoration								All redd data gathered to this point (four yrs.) concerning bull trout in four different streams of the Lewis River basin (including Rush Creek) identify that bull trout are not side-channel spawners, but instead stick to the margin of the main channel. That being said, this proposed project will most likely have the greatest benefit to coho (which are not listed as a benefit species in the project paperwork) because coho are known to use side-channels for spawning events. Most of the gravel in the stream is tied up behind the large log-jams, it may be better to spend money to work to dismember the larger jam and allow the natural gravels to disperse, rather than to try and augment and compound the problem of gravel embankment behind the log-jams by just adding more gravel. Why is Rush Creek low on gravel - seems supply is low but that may be the natural condition. Gravel can't get into side channels? Rush Creek should be considered for barrier removal or passage to open up available spawning habitat upstream of bridge. The FW's turned down a similar request a couple of years ago. NOT RECOMMENDED FOR FULL PROPOSAL	
4	USDA Forest Service	Muddy River Mainstem Channel Restoration								Personnel funding request is the exact same as the Muddy River Side-Channel Restoration Project above, though the time line for project completion is the same and the projects are in close proximity. Seems these costs could be combined. The Utilities believe that wood needs to be added to this reach of the Muddy, but question the potential for success in getting the wood to 1) stay in place, and 2) stay within the active stream channel due to the wide flood-plain and loose bed material. Do not see long term benefits. RECOMMEND FULL PROPOSAL	
5	USDA Forest Service	2011 Pine Creek Nutrient Enhancement by Snow cats and Snowmobiles								Cost to benefit is relatively high and engages the local community. Question how FS is going to distribute carcasses 2 miles up PR without walking up the stream and disturbing bull trout redds (take riparian to draw). Nutrient enhancement is already occurring through the HPP and soon through reintroduction efforts. RECOMMEND FULL PROPOSAL	
6	Lower Columbia Fish Enhancement Group	NF Lewis RM 13.5 Side-Channel Habitat Enhancement								Orientation of the newly placed structures along the bank of the main channel closest to this proposed side-channel looks like the structures may in fact shunt water to the other bank rather than the outcome goal of facing water back and into the proposed abandoned side-channel. This is high risk project. No reasonable guarantee that it will be successful or have longevity. Want to see the proposal move forward to get more details. RECOMMEND FULL PROPOSAL	
7	Cowlitz Indian Tribe	Eagle Island Habitat Enhancement - Sites B and C								Cost seems a bit high but LR needs more juvenile rearing areas. Good follow-up to Site A from last year. This would complete the design that would hopefully keep the North Eagle Island channel open. CT Will return funds to ACC if funds from SRFB are not acquired. RECOMMEND FULL PROPOSAL	

Lewis River Aquatic Fund - Utilities' Evaluation of 2010/2011 Project Proposals											
No.	Applicant	Project Title	Project Schedule	Benefit	Bull Trout	Project Partners	Funding	Cost Share?	Consistency with Fund Objectives	Selected by Utilities for Full-Proposal	Comments - Utilities
1	USDA Forest Service	Lewis River Side Channel Near Muddy River Instream Habitat Restoration	2011/2012	This project involves placement of 16 structures (approx 160 pieces LWD) to create and improve rearing opportunities for coho salmon. Wood supplied by USFS lands and possibly Swift Reservoir.	No	Gifford Pinchot National Forest, Mt. St Helens Institute, SCAT	\$ 47,000.00	Yes	Yes	yes	Question high admin costs (5k) and monitoring costs (4k), especially when the identified means of monitoring is via a stream team volunteer program. Also, complexity in this side-channel in the form of LWD is already decent, not quite sure it warrants spending 47k but still would like to see full proposal. What use is existing? Any surveys been completed? What is the current condition of the habitat? How does this channel behave during high flow events? Implementation does not occur until 2012. Costs seem to double-count timber.
2	USDA Forest Service	Muddy River Side Channel Restoration	2011/2013	Placement of LWD in two side channels to enhance and restore juvenile salmonid rearing habitat. Coho main species to benefit from these actions.	No	Gifford Pinchot National Forest, Mt. St Helens Institute	\$ 39,000.00	Yes	Yes	yes	1/3 of the costs are for personnel (12k) - seems unusually high and not the best way to utilize aquatic funds. Why is it so much cheaper to do these two side-channel projects as opposed to the one side-channel project in the previous proposal? Also, question how long structures will stay in place due to the wide flood-plain and nature of this river. Other than the above issues, intent of the project is sound. Excavator & skidder contract makes sense; need more info on role of logging & hauling trees. Documented fish use? Limited benefits due to location in watershed. Does temperature and flow information exist? Concerned about stability of the Muddy River channel. Perhaps this should be a pilot study similar to a previous Pine Creel approach.
3	USDA Forest Service	Rush Creek Side Channel Restoration	2011/2012	1/4 acre of side channel enhancement through spawning gravel augmentation with 20-40 cubic yards of spawning gravel in strategic locations. Using helicopter for small diameter LWD placement. LWD anchored to boulders.	Yes	Gifford Pinchot National Forest, WDFW	\$ 25,000.00	Yes	Maybe	no - USFWS will likely reject	All redd data gathered to this point (four yrs.) concerning bull trout in four different streams of the Lewis River basin (including Rush Creek) identify that bull trout are not side-channel spawners, but instead stick to the margin of the main channel. That being said, this proposed project will most likely have the greatest benefit to coho (which are not listed as a benefit species in the project paperwork) because coho are known to use side-channels for spawning events. Most of the gravel in the stream is tied up behind the large log-jams, it may be better to spend money to notch or dismember the largest jam and allow the natural gravels to disperse, rather than to try and augment and compound the problem of gravel embeddedness behind the log-jams by just adding more gravel. Why is Rush Creek low on gravel - seems supply is low but that may be the natural condition. Gravel can't get into side channels? Rush Creek should be considered for barrier removal or passage to open up available spawning habitat upstream of bridge. The FWS turned down a similar request a couple of years ago.
4	USDA Forest Service	Muddy River Mainstem Channel Restoration	2011/2013	Placement of LWD from RM 4.5-5.0 to increase bank stability, enhance and restore juvenile salmonid rearing habitat and to create adult spawning habitat.	No	Gifford Pinchot National Forest, Mt. St. Helens Institute	\$ 43,000.00	Yes	Yes	yes	Personnel funding request is the exact same as the Muddy River Side-Channel Restoration Project above, though the time-line for project completion is the same and the projects are in close proximity. Seems these costs could be combined. The Utilities believe that wood needs to be added to this reach of the Muddy, but question the potential for success in getting the wood to 1). stay in place, and 2). stay within the active stream channel due to the wide flood-plain and loose bed material. Do not see long term benefits.
5	USDA Forest Service	2011 Pine Creek Nutrient Enhancement by Snow cats and Snowmobiles	2011	Use of snowmobiles, snow cats and pick-up trucks to distribute Salmon carcasses in Pine Creek watershed to add nutrients for benefit of BT and all species of introduced anadromous fish.	Yes	Gifford Pinchot National Forest, Snowmobile Club, Pope and Talbot Timber Co.	\$ 7,500.00	Yes	Yes	yes	Cost to benefit is relatively high and engages the local community. Question how FS is going to distribute carcasses 2-miles up P8 without walking up the stream and disturbing bull trout redds (alder riparian is dense). Nutrient enhancement is already occurring through the HPP and soon through reintroduction effort.
6	Lower Columbia Fish Enhancement Group	NF Lewis RM 13.5 Side-Channel Habitat Enhancement	2011/2012	Construction of a 2,500 foot long side-channel with pool-riffle habitat, LWD placements and connected off-spring-channel (backwater) habitat. Includes rehab of approx 200' perennial spring-fed tributary using channel re-grading and LWD placements.	No	SRFB, LCFRB, Inter-fluve and Sam Kysar (landowner)	\$ 62,500.00	Yes	Yes	yes	Orientation of the newly placed structures along the bank of the main channel closest to this proposed side-channel looks like the structures may in fact shunt water to the other bank rather than the outcome goal of forcing water back and into the proposed abandoned side-channel. This is high risk project. No reasonable guarantee that it will be successful or have longevity. Want to see the proposal move forward to get more details.
7	Cowlitz Indian Tribe	Eagle Island Habitat Enhancement - Sites B and C	2012/2014	Establish LWD components in remnant alcove, back channel and side-channel habitat along Eagle Island (sites B & C). Benefit to juvenile steelhead, Chinook, and coho rearing through the year.	No	Interfluve, Clark County, LCFRB, WDFW, Washington State Salmon Recovery Funds	\$ 144,000.00	Yes	Yes	yes	Cost seems a bit high but LR needs more juvenile rearing areas. Good follow-up to Site A from last year. This would complete the design that would hopefully keep the North Eagle Island channel open. CT Will return funds to ACC if funds from SRFB are not acquired.
							Totals	\$ 368,000.00			
							Total non-bull trout Funds	\$ 335,500.00			
							Bull Trout Funds	\$ 32,500.00			
Fund Objectives:		1. Benefit fish recovery throughout the North Fork Lewis River, priority to federal ESA-listed species 2. Support the re-introduction of anadromous fish throughout the basin 3. Enhance fish habitat in the Lewis River Basin, with priority given to North Fork Lewis River									

Poindexter, Arianne

From: Shrier, Frank
Sent: Friday, November 12, 2010 1:43 PM
To: Adam Haspiel; Athena Sanchez (pebbles@yakama.com); Bernadette Graham Hudson; Bighouse, Donna (DFW); Bill Bakke; Bob Rose (brose@yakama.com); 'Brett Swift'; Chris Maynard; Darlene Johnson; David Hu (dhu@fs.fed.us); Diana MacDonald; Doyle, Jeremiah; Eli Asher (easher@lcfwb.gen.wa.us); Frazier, Patrick A (DFW); HML LRN (Branz, Steve); HML LRN (Morgan, Rhidian); James Dixon (dixonjfd@dfw.wa.gov); Jeff Breckel; Jim Byrne; Jim Eychaner (Jim.Eychaner@rco.wa.gov); Joel Rupley; John Clapp; John Weinheimer; Kathryn Miller (kmiller@tu.org); Kinne, Eric B (DFW); Lesko, Erik; LouEllyn Jones; Malinowski, James; Mariah Reese (M.Reese@tds.net); Melody Tereski; michael_hudson@fws.gov; Michelle Day; Nathan Reynolds; Nordlund Bryan (Bryan.Nordlund@noaa.gov); Olson, Todd; Pearce Paul (pearce@co.skamania.wa.us); Rich.Turner@noaa.gov (Rich.Turner@noaa.gov); Ruth Tracy; HML LRN (Lopossa, Ryan); Shannon Wills; Steve Manlow (smanlow@lcfwb.gen.wa.us); Susan Cierebiej (susan.cierebiej@dfw.wa.gov); Susan Rosebrough; Taylor Aalvik (taalvik@cowlitz.org)
Cc: Poindexter, Arianne; Weatherly, Briana; Emmerson, Kendel; Moore, David; Mike Bonoff; 'Wendy Wentel'; 'Greg Allington'
Subject: Crab Creek acclimation pond

Hello,

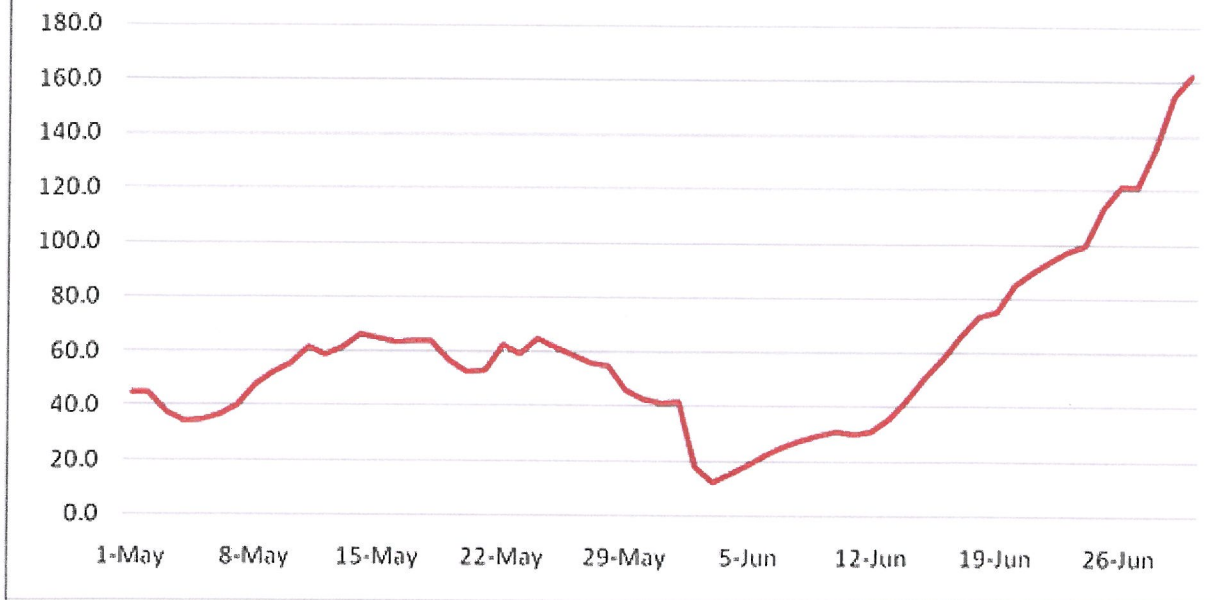
As many of you know, PacifiCorp staff has been working with the USFS to evaluate the proposed Acclimation Pond sites in preparation for the NEPA process. We have completed wildlife and Botanical surveys, Cultural surveys, Noxious weed surveys, and analysis of water quantity. You also have before you the 60% designs for the Crab, Clear, and Muddy sites and a 30% design for the alternative site at Eagle Cliffs.

A couple of weeks ago we met David Hu at the Crab Creek site and conducted an electrofishing survey of Crab Creek up to the proposed upper diversion site. During the survey we found nine rainbow trout, one sculpin fry and once salmon fry (in the lowest pool/probably coho) plus two Pacific Giant salamanders. This was surprising to me since Jeremiah and I electrofished this same stretch two years ago and did not find any fish except at the lowest pool. Regardless this put a kink in the proposed pond site.

At the same time, we downloaded flow level-logger information that allowed us to evaluate the flow regime. What we found was that in May flow demand for the Acclimation Pond exceeded 40% of the base flow in Crab Creek 26 out of 31 days and exceed 40% of the base flow 19 out of 30 days in June. In fact, from June 17th on, flow demand exceeded 70% of the base flow (see graph below).

Given this new information, FS has informed us that they will not be able to allow that much impact on a fish-bearing stream.

Percent of Crab Creek Flow used by the Acclimation Pond at 1.2 cfs withdrawal



So we have a decision to make. The way I see it there are a couple of options:

- 1) Expand the capacity of the Clear Creek proposed pond, expand the Muddy River pond, or expand both to accommodate the production from Crab Creek.
- 2) Build a pond facility at the proposed alternative site at Eagle Cliffs.

I am not going to be able to attend the next ACC meeting but Todd is prepared to lead the discussion. I would like to share my thinking on this.

First, I'm not fond of building the Eagle Cliffs facility because the site is right at the reservoir edge and does not appear to provide any advantage for acclimating the fish. Plus bull trout congregate in the pool adjacent to the site and the acclimation fish would not have had much time to learn predator avoidance.

In terms of expanding the Muddy or Clear sites, both are certainly feasible. However, the Muddy site does have one drawback that gives me pause. The Muddy River channel is very active (i.e. moves from one side of the valley to the other depending on the flow events) and could potentially render the site useless until an alternate filtration gallery could be constructed. So I'm not very excited about counting on that site for acclimating additional fish.









As you can gather, I favor expanding the Clear Cr. site to accommodate 2/3 of the acclimation fish. My reasoning is that this is probably the best site given the water quality and protection the bridge abutment offers. Historically, the Muddy River and its tributaries (including Clear Creek) made up fifty percent of the anadromous fish spawning habitat upstream of Yale dam with the other 50% currently inundated by Swift Reservoir (Chambers 1957). So because of the site conditions, I am most comfortable with expanding the Clear Creek site and saving the Eagle Cliffs site for a situation when all else fails.

I invite you to think about this and come to the ACC meeting next week with your own conclusions. Todd will lead a discussion there and hopefully you all can come to some agreement on the next step since we need to keep moving with the design process.









Thank you for your consideration.

REVISED HATCHERY UPGRADE SCHEDULE
(Activities from Schedule 8.7 of the Settlement Agreement)








Updated: November 15, 2010

Activity	LY	Construction Dates	Construction Period (Days)						Status	NOTES
				2008	2009	2010	2011	2012		
Lewis River Hatchery										
Pond 13 (conversion to raceways)	2	June 10 - Dec 1	105						Delayed	Coho held at LR in raceways longer
Pond 14 (conversion to raceways)	2	June 10 - Dec 15	125						Delayed	SCH held at Speelyai, Pond 16 & LR Pond 15
Pond 15 (conversion to raceway/sorting facility)	1	Jan 1 - August 30	240						COMPLETE	To be used for temporary juvenile rearing for P13&P14
Pond 16 (conversion to raceways)	1	April 1 - July 31	120						On Schedule	Moved out to allow for rebuild of P15, P13, P14
Downstream water intake repair (screening modification)	2008	April 1 - July 31	120						DELAYED	Should be done at same time of P16, <u>delays likely</u>
Upstream intake and conveyance pipe testing & repair	2006	May 1 - May31	30						DELAYED	Inspect and Repair in 2011



Merwin Hatchery

Upgrade ozone Treatment facility (PLC/Power Switching)	2	July 1 - October 30	120						Upgrades ongoing	Hardware Upgrades completed in 2005
Improve flow and exchange rates in rearing ponds	2	July 1 - Sep 1	60						On Schedule	2 in 2010 and 2 in 2011.
Modify release ponds to accommodate adults	2	July 1 - Sep 1	60						On Schedule	Late Start and concrete retaining wall issues
Purchase fish hauling trucks and/or tank flatbed	1,3	Complete by Sep 1	n/a						PARTIALLY COMPLETE	In process, but delayed

Speelyai Hatchery

Pond 14 (conversion to raceways)	4	February 1 - May 30	120						On Schedule	
Burrows Pond Bank No. 1 (conversion to raceways)	1	July 1 - Nov 1	120						COMPLETE	SCH to Pond 14, kokanee to stay in one bank
Burrows Pond Bank No. 2 (conversion to raceways)	2	July 1 - Nov 1	120						COMPLETE	SCH to Pond 14, kokanee to stay in one bank
Repair water intake structure	3	June 1 - September 30	120						DELAYED	TO DISCUSS AT DECEMBER ACC MEETING
Expand adult fertilization area	2	December 1 - March 30	90						COMPLETE	
Construct kokanee trap weir/trap	3	May 1 - August 30	120						On Schedule	
Expand incubation building	4	July 1 - August 30	60						COMPLETE	Completed in 2006

Net Pens

Purchase Net Pens	2	January	60						COMPLETE	10 - 20x20x16 pens for production of 20,000 lbs.
Install Net Pens	2	September - October	60						COMPLETE	10 - 20x20x16 pens for production of 20,000 lbs.

 COMPLETE