

**Lewis River Hydroelectric Projects Settlement Agreement
Aquatic Coordination Committee (ACC)
Meeting Agenda**

Date & Time: Thursday, July 10, 2014
9:00 a.m. – 10:30 a.m.

Place: Conference Call

Contacts: Frank Shrier: (503) 320-7423

Time	Discussion Item
9:00 a.m.	Welcome <ul style="list-style-type: none"> ➤ Review Agenda & 6/12/14 Meeting Notes ➤ Comment & accept Agenda & 6/12/14 Meeting Notes
9:15 a.m.	Review fish rescue efforts on the lower river
9:30 a.m.	Discussion of Merwin trap repairs and status of the hydraulic evaluation
10:00 a.m.	Study/Work Product Updates <ul style="list-style-type: none"> ○ Eulachon Consultation - Status ○ Woodland Release Ponds - Status ○ Hatchery Upgrades - Status ○ Hatchery and Supplementation Plan – Status ○ Acclimation Ponds - Status ○ Merwin Upstream Passage - Status ○ Swift Downstream Collector – Status ○ Low flow conditions - Status
10:15 a.m.	<ul style="list-style-type: none"> ➤ Next Meeting’s Agenda ➤ Public Comment Opportunity Note: all meeting notes and the meeting schedule can be located at: http://www.pacificorp.com/es/hydro/hl/lr.html#
10:30 a.m.	<i>Adjourn</i>

Join by Phone

+1 (503) 813-5252 [Portland, Ore.]

+1 (855) 499-5252 [Toll Free]

Conference ID: 5709805

FINAL Meeting Notes
Lewis River License Implementation
Aquatic Coordination Committee (ACC) Meeting
July 10, 2014
Conference Call

ACC Participants Present (9)

Frank Shrier, PacifiCorp Energy
 Erik Lesko, PacifiCorp Energy
 Kim McCune, PacifiCorp Energy
 Michael Kahut, PacifiCorp Energy
 Peggy Miller, WDFW
 Michelle Day, NMFS
 Aaron Roberts, WDFW
 Pat Frazier, LCFRB
 Diana Gritten-MacDonald, Cowlitz PUD

Calendar:

August 14, 2014	ACC Meeting	Conference Call
September 11, 2014	ACC Meeting	Merwin Hydro

Assignments from July 10, 2014 meeting	
McCune: Submit Haapa Enhancement 2014 final design and revised scope/budget to the ACC.	Pending – 8/14/14
McCune: Email PacifiCorp fish salvage memo from June 13, 2014 to the ACC.	Complete – 7/10/14
Miller: Confirm with WDFW that they will provide the needed HPA approval for the Speelyai Hatchery Intake Mod extension request for in-water work.	Pending regional input – 8/14/14
McCune/Lesko: Email WDFW Officer Brandon Chamberlain contact information to Michelle Day (NMFS).	Complete – 7/11/14
Day: Ask Keith Kirkendall what the plan is and send email to Shrier regarding the draft letter from Nordlund to Kirkendall on 6/17/14.	Complete – 7/11/14
Roberts: Provide opening day catch records to Shrier to see what fish are being caught.	Complete – 8/14/14

Assignments from June 12, 2014 meeting	
Shrier: Schedule a fish rescue in the lower river with agencies for Friday 6/13/2014.	Complete – 6/13/14
Barber: submit change in scope and budget for Haapa Enhancement 2014 Aquatic Fund project.	Pending – 8/14/14
Day: Advise Shrier of a date and time to review the Development of New Information to Inform Fish Passage Annual Report.	Pending – 8/14/14

Assignments from February 13, 2014 meeting	
Eric Kinne: Work on securing the 2012/2013 lower river coho abundance survey data and provide this information to Erik Lesko (PacifiCorp) for the 2013 H&S Annual Report. Lesko requires this data by February 28, 2014.	Pending – as of 8/14/14 data has not been received and will not be provided in the 2014 report. Awaiting BPA comments before passing on to PacifiCorp

Opening, Review of Agenda and Meeting Notes

Frank Shrier (PacifiCorp) called the meeting to order at 9:05 a.m. and reviewed the agenda. Shrier informed the ACC that the following topics have been added to the agenda:

- Speelyai Intake Modification – request for extension
- Flow & Reserve Storage; minimum flows

The June 12, 2014 meeting notes were reviewed and approved at 9:10 am with minor housekeeping changes on pages 2 & 3 requested by Pat Frazier (LCFRB). Kim McCune (PacifiCorp) will finalize the June 12, 2014 meeting notes for posting to the Lewis River website.

Speelyai Hatchery Intake Modification Project; Request for extension

Michael Kahut (PacifiCorp) provided a cursory review of a certain status report provided to the ACC on July 9, 2014 ([Attachment A](#)).

In response to ACC questions Kahut confirmed that there will be no interruption of water supply to the hatchery in all areas (no risk to hatchery operations) and the water supply to the incubation area will be routed in such a manner to exclude turbid water caused by construction activities upstream of the intake structure. See [Attachment A](#) for further detail.

Peggy Miller (WDFW) will confirm with WDFW that they will provide the needed HPA approval for the Speelyai Hatchery Intake Mod extension request for in-water work. A potential construction start time is August 2014; the FERC and the Corp of Engineers have one month to review.

The ACC agreed that the extension request to 12/31/2014 is acceptable.

Review of Fish Rescue Efforts on the Lower River

Shrier provided a cursory review of the Lewis River Fish Salvage Memo from WDFW, dated July 2, 2014. See [Attachment B](#) for further detail. In addition, Shrier reviewed PacifiCorp’s Lower Lewis River Fall Chinook Rescue memo dated June 17, 2014 ([Attachment C](#)).

The following is a summary of the findings from PacifiCorp's upstream effort:

Area	Fall Chinook fry	Coho	Steelhead	Lamprey
Big Bar	18	148	0	1
Cattle Bar	7	170	1 yearling	1
Hagedorn's	0	2	0	0

Fall Chinook and the yearling steelhead were taken by bucket to a quiet pool along the main channel.

McCune will email PacifiCorp's memo in its entirety to the ACC for their records.

Discussion of Merwin Trap Repairs and Status of the Hydraulic Evaluation

Shrier informed the ACC attendees that the repairs to the damaged elevator shaft at the Merwin Fish Sorting Facility was completed ahead of schedule and the trap was put back into service July 2, 2014 (see Attachment D for further detail). On 7/3/14 PacifiCorp collected and sorted 356 hatchery summer steelhead.

Shrier also informed the ACC attendees that the hydraulic evaluation began on July 9, 2014 to verify water supply, flows and pond volumes to confirm with electronic readings. Bryan Nordlund (NMFS) commented on what he would like to see and the criteria to be met.

Michelle Day (NMFS) will ask Keith Kirkendall what the plan is and send email to Shrier regarding the draft letter from Nordlund to Kirkendall on 6/17/14.

Low Flow Conditions and Reserve Status

The Flow Coordination Committee (FCC) was called together due to the drought-like conditions on the Lewis River; PacifiCorp could not sustain reservoir storage to support fall spawning flows while maintaining the current FERC minimum flows. PacifiCorp is currently releasing the following flows as approved by the FCC: about 1,840 cfs (standard is 2300 cfs), flows will be reduced to 1,400 cfs on July 11, 2014 then will drop to 1,200 cfs on July 21, 2014. The goal is to maintain 1,200 cfs until October 16, 2014 when flows will increase to 2,500 cfs. Current reservoir storage is 19.45' and it is gradually increasing.

Study/Work Product Updates

Eulachon Consultation

Day communicated that she is continuing to work on the Eulachon BiOp but cannot provide an exact date and is trying hard to complete the consultation. She is committed to finishing by the end of the Federal Fiscal year (Sept. 30) so work can begin in 2015.

Woodland Release Ponds

On hold for Eulachon consultation; the construction schedule is currently August 2015.

Hatchery and Supplementation (H&S) Program

1. Revision, updating and rewriting sections of the Hatchery and Supplementation Plan is ongoing. This includes updating the ocean recruit methodology which is taking a

bit longer than anticipated. PacifiCorp is targeting late July to release a preliminary draft of this plan to the ACC for a 60-day review period. The final plan must be approved and submitted to FERC by December 26, 2014. Concurrent submittals of the HGMP may influence portions of the H&S plan and we will just need to be aware of this as the draft is being reviewed and finalized.

2. The Eagle Cliff screw was removed on June 13, 2014. The lower river trap is still in place but the cone is up and not fishing. We will remove this trap during the week of July 13, 2014.

Hatchery Upgrades:

Two projects remain as part of Schedule 8.7 of the Settlement Agreement.

Speelyai Hatchery Intake Modifications: On Schedule for completion by November 2014

Merwin Hatchery PLC Ozone Upgrades: This project is ongoing and scheduled for completion by the end of November, 2014

Lesko informed the ACC attendees that PacifiCorp has reviewed six (6) HGMPs and sent back to WDFW. The ACC may have to make adjustments to the H&S Plan depending upon the outcome of the HGMP public review. The goal of the H&S rewrite is a 12/26/2014 completion which is the FERC deadline for submittal.

Acclimation Pond/Crab Creek Status

The Crab Creek review process is complete; record of decision signed by the Forest Service. A Special Use Permit has yet to be secured from the Forest Service. Install of the pond is expected in summer 2015.

Acclimation Pond/Muddy River Status

Need specifications from contractor for different pump to clear the intake lines. The existing pump is not large enough to clear infiltration gallery and flow lines. PacifiCorp will blow out the lines completely in about two weeks once we obtain the correct size pump. The Muddy Pond flows will be running year round to keep the lines clear.

Merwin Upstream and Swift Downstream Collector Status

PacifiCorp provided the following Lewis River Fish Passage Report to the ACC via email on July 1, 2014 (see [Attachment E](#)).

Merwin Sorting Facility Fish Collection and General Operations

During the month of June, a total 800 fish were captured at the Merwin Fish Sorting Facility; the majority (84%) of these fish were hatchery summer steelhead (n = 669). Of these 669 collected, 211 (32%) were fish that were previously captured at the Merwin Sorting Facility, marked, and release back downstream as part of Washington Department of Fish and Wildlife's fish recycling program. One wild summer steelhead (n=1) was captured and returned to the lower river. Spring Chinook (n=86) continued to be collected in June, although their numbers to decline throughout the month. To date, 890 spring Chinook were captured at the Merwin Facility this year. Ten winter steelhead (n=10) were collected in June; the majority of these fish (80%) had previously spawned and were returned to the lower river. Other species collected in June

included sockeye salmon (kokanee) (n=6), spring Chinook smolt (n=1), cutthroat trout (> 13 inches; n = 1), resident rainbow trout (n = 7), mountain whitefish (n=11), and northern pikeminnow (n=8).

The Merwin Sorting Facility had a number of outages during June due to minor mechanical failures associated with the fish lift and conveyance systems. PacifiCorp has worked with the designed engineers and contractor to resolve many of these issues. On June 25th, 2014 the elevator shaft supporting the fish hopper was damaged during a contracted third party inspection of the Merwin Powerhouse gantry crane. Actions are currently underway to repair the damage. Under the current repair schedule, the Merwin facility should be back online by early July.

The Auxiliary Water Supply (AWS) system, which boosts attraction flow to 400 cfs, was operated intermittently as testing continues. The 30 cfs Ladder Water Supply (LWS) system continued to operate throughout the month.

River flow at Merwin Dam fluctuated from about 2,740 cubic feet per second (cfs) to 4,380 cfs throughout the month of June. A two hour spill event occurred on June 27, 2014

Upstream Transport

A total of two male winter steelhead obtaining a Blank Wire Tag (BWT) were transported upstream during June 2014 (One of which was captured at Lewis River Fish Hatchery). Including these fish, a total 1,033 (452 m: 581 f) BWT steelhead have been transported and released into the headwaters of Swift Reservoir this season in addition to 12 cutthroat trout exceeding 13 inches in length. All other fish collected at the Merwin Sorting Facility in June were returned to the river downstream of Merwin Dam or transported to a hatchery facility.

Swift Floating Surface Collector

The FSC went back into operation on March 31, 2014 after completion of Phase I of the Swift barrier net project. A total of 3,502 fish were collected during the month of June. The majority (76 percent) of these fish were coho smolts (n=2,650), followed by spring Chinook smolts (n=419), hatchery rainbow trout (n=200), steelhead smolts (n=117), and cutthroat trout (n=108). Two adult steelhead kelts were captured and returned to the lower Lewis River. Three juvenile bull trout were captured and returned back to Swift Reservoir along with 200 hatchery rainbow trout.

Other

Aaron Roberts (WDFW) informed the ACC attendees that 1,500 adult Spring Chinook adults were trapped, 988 on hand, and 84 mortalities. There were not enough Spring Chinook to put upstream this year.

The goal is to produce 1.7M eggs to get a release of 1.35M smolts.

The Lewis River Fishing Derby will take place this Saturday, July 12, 2014.

Steelhead kelts in Swift Reservoir are being targeted by some anglers despite signage and regulation changes indicating all rainbow over 20 inches must be released. Public is not reading the signage; enforcement has been active in the area and will continue to monitor for compliance. Press release by WDFW will go out soon to help educate the public. Shrier asked WDFW to provide opening day catch records to see what fish are being caught.

<10:05 a.m. meeting adjourned >

Agenda items for August 14, 2014

- Review July 10, 2014 Meeting Notes
- Study/Work Product Updates
- NMFS - Review all fish stranding data

Public Comment

None

Next Scheduled Meetings

July 10, 2014	August 14, 2014
Conference Call	Merwin Hydro Control Center
	Ariel, WA
9:00 a.m. –11:00am	9:00 a.m. – 3:00pm

Meeting Handouts & Attachments

- Notes from 6/12/14
- Agenda from 7/10/14
- **Attachment A** – Email to ACC regarding status and extension request for the Speelyai Hatchery Intake Modification Project (SA 8.7(C), dated July 9, 2014
- **Attachment B** – WDFW’s Lewis River Fish Salvage Memo, dated July 2, 2014
- **Attachment C** - PacifiCorp’s Lower Lewis River Fall Chinook Rescue memo, dated June 17, 2014
- **Attachment D** – Email to ACC re Merwin fish sorting facility outage/repair, July 3, 2014
- **Attachment E** – Lewis River Fish Passage Report – June 2014

McCune, Kimberly

From: McCune, Kimberly
Sent: Wednesday, July 09, 2014 10:55 AM
To: (Aaron.roberts@dfw.wa.gov); (michael_hudson@fws.gov); (Timothy_Whitesel@fws.gov); 'Adam Haspiel (ahaspiel@fs.fed.us)'; 'Bart Stepp'; 'Bob Rose (rosb@yakamafish-nsn.gov)'; 'Bryan Nordlund'; cser461@ECY.WA.GOV; 'Diana MacDonald'; Doyle, Jeremiah; Eli Asher (easher@cowlitz.org); 'Eric Kinne'; Ferraiolo, Mark; Fish First (j.malinowski@ieee.org); gghalseth@gmail.com; James H Malinowski (jim.malinowski@icloud.com); 'Jeff Breckel'; Karchesky, Chris; Karen Adams; 'Kathryn Miller (kmiller@tu.org)'; Ken Weiman (kwieman@fs.fed.us); Lesko, Erik; 'LouEllyn Jones'; 'Mariah Stoll-Smith Reese (M.Reese@tds.net)'; 'Maynard, Chris (ECY)'; 'Melody Tereski'; 'Michelle Day'; Olson, Todd; Pam Johnson (johnson@co.skamania.wa.us); Patrick Frazier (pfrazier@lcfwb.gen.wa.us); 'Patrick Lee'; Peggy Miller; 'Rhidian Morgan (rmmorgan@plasnewydd.org)'; 'Ruth Tracy'; Samagaio, James; 'Shannon Wills'; Shrier, Frank; Taylor Aalvik (taylor.a@cowlitz.org); Weatherly, Briana
Cc: Kahut, Michael
Subject: SA 8.7 (C), Speelyai Intake Mod; FERC completion date of 10/1/2014; request extension

Attn: ACC Participants

The topic below will be added to the ACC agenda for tomorrow's meeting. The previously approved completion date for the Speelyai Intake Mod is October 1, 2014.

Status Report – Speelyai Hatchery Intake Modification project:

PacifiCorp is requesting an extension of time to complete the project. PacifiCorp has requested an in-water work extension for the project which would allow the contractor an in-water work window that extends through the calendar year (12/31/2014). It is unlikely that the project will actually extend this late into the year; however, due to a variety of internal and external factors (e.g. internal contracting, procurement, local land use delays, permitting delays, etc.), we have been unable to begin construction on this project and we are well into the in-water work window which began on May 1, 2014. We are proposing a longer than is likely necessary extension for a variety of reasons listed below:

- Due to the clearances and contracting issues remaining before we can begin construction, it is currently unknown when our contractor will be able to mobilize and actually begin the work. An in-water work end date of December 31, 2014 helps to assure that we only have to request an extension one time.
- It is likely that the majority of construction will still occur during the previously approved in-water work window which ends August 31, 2014. Any work that extends beyond this date will occur behind isolated in-water work areas.
- By limiting construction to one extended in-water work window, it is our opinion that in-water impacts will be less than leaving in-water isolation measures in place throughout the winter months, or removing and reinstalling the same isolation measures the following year.
- The existing intake facility serves as a fish barrier and therefore blocking access to upstream spawning and rearing habitat is not an issue for consideration.

- All in water work will occur within enclosed cofferdams which should effectively minimize downstream turbidity. In addition, block nets or some other exclusionary device will be placed downstream to keep upstream migrating hatchery kokanee away from the project area and directed towards the existing kokanee fish trap.
- WDF&W hatchery personnel (Miller, Young) have participated in discussions with PacifiCorp and the contractor during planning and scoping of the temporary water supply to the ponds and incubation areas to insure that 1) there will be no interruption of water supply to the hatchery in all areas, 2) that water supply to the incubation area will be routed in such a manner to exclude turbid water caused by construction activities upstream of the intake structure, 3) relocation of existing intake low level alarms will be performed to insure that systems in place will continue to operate, and, 4) that a pumped backup system is in place and hatchery personnel are trained on operation of that system if they must respond to an emergency shutdown of the primary water supply system.

As described, it is likely that all work will end sooner than December 31, 2014; however, given the circumstances described above, PacifiCorp proposes this conservative extension to December 31, 2014.

Thank you.

Kimberly McCune

Sr. Project Coordinator

PacifiCorp Energy - Hydro Resources

825 NE Multnomah, Suite 1500

Portland, OR 97232

Ph: (503) 813-6078

To: Eric Kine

From: Josua Holowatz

CC: Bryce Glaser; Cindy LeFleur; Mara Zimmerman; Mark Johnson; Shane Hawkins; Julie Grobelny; Scott Nelsen;

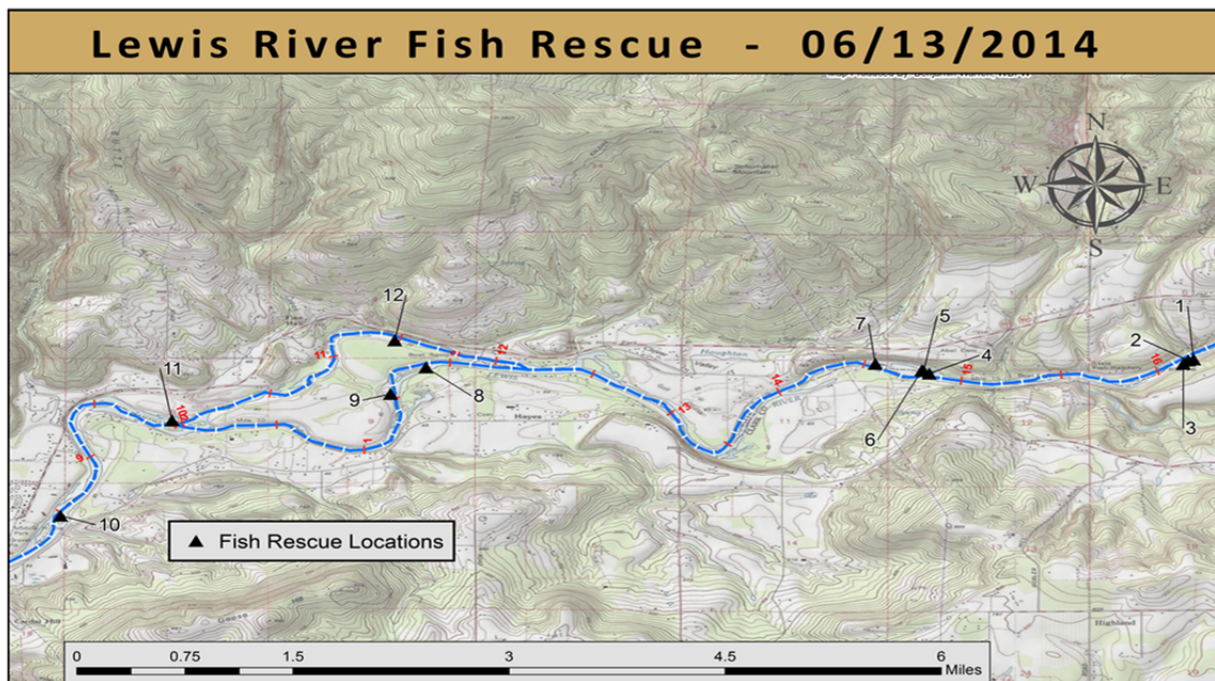
Date: July 2, 2014

Re: June 13 Lewis River Fish Salvage

On Friday June 13, 2014, Scott Nelsen, Trevor Barker and myself were accompanied by Michelle Day NOAA Fisheries and Pacificorp. We conducted a cursory fish stranding assesment on the lower Lewis River Below Merwin Dam. We examined a total of 12 different sites from Lewis River Hatchery down river where it was felt there would be strandings of juvenile salmonids after an increase then reduction in flows from Merwin Dam. Pacificorp examined 3 additional sites above the Lewis Hatchery.

This action came after an AWS pump test conducted on May 30, 2014 which raised flows below Merwin to above 10,000cfs. WDFW and Paciforp each provided 1 boat. The WDFW crew used a 30 foot stick seine with ¼" mesh to capture entrapped fish. The Pacificorp crew used and electroshocker. At the first 6 strandings, the Pacificorp crew came through after the seine had been employed to catch any fish the seine may have missed. The catch for these locations is an agregate of the two capture methods. The other 6 locations were sampled only by stick seine and those catches are summarized below. There were several locations where there were exposed pools with no fish in them and others where, we did not seine because the pools were so small or contained so much grass that we could not seine them. We did find a dead Chinook juvenile in one of the pools at area #12. All captured fish were transported by bucket and released in mainstem flow.

A GPS point was taken at each site that was sampled or if we observed entrapped fish. Each site is given a common name that we commonly use while sampling the Lewis River. We took a water temperature at location #10 it was 60.1 degrees at 12:26 pm. A mainstem temp was taken at the same time the Lewis was 51.8 degrees. The weather on the sampling day was cloudy with showers and it had rained significantly the night before.



June 13 Lower Lewis Fish Salvage Activities

WDFW Josua Holowatz, Scott Nelsen, Trevor Barker

Lewis Flows 2800cfs

Lewis Temp: 51.8

Entrapment #	Location name:	# Chinook	# Coho	Comments
1	Across from Hatchery Intake	0	50	
2	Across from Hatchery Intake	0	200	
3	Across from Hatchery Intake	0	400	
4	Top Happa Island	65	0	
5	Top Happa Island	30	40	
6	Top Happa Island	0	0	no fish observed in this pool
7	Middle Happa Island	75	35	
8	Top of Killdeer back channel	350	64	top of engineered log jam
9	7-Up	45	10	
10	Upper School bus Island	260	5	pool was 60.1 degrees
	Lower School Bus Island	0	0	6 small pools up to 10' long no fish observed
11	Goose Island	70	20	Several small pools that were not seinable due to size/depth
12	Back side of Gairdneri	0	0	6 pools with fish not seinable many fish in pools 1 Chin mort
Total Fish Salvaged		Chin 895	Coho 824	



Top of Killdeer Back Channel Site #8





Top of School Bus Island Site # 10



Chinook Stranding Mortality behind Gairdneri Site# 12

McCune, Kimberly

From: Shrier, Frank
Sent: Tuesday, June 17, 2014 8:14 AM
To: Michelle Day; DFW (Josua.Holowatz@dfw.wa.gov)
Cc: Olson, Todd; Lesko, Erik; Doyle, Jeremiah; Karchesky, Chris; McCune, Kimberly
Subject: Lower Lewis River fall CHinook rescue

Michelle/Josh:

On Friday June 13, 2014, Erik Lesko, Jeremiah Doyle and I plus Michelle and WDFW conducted a fish rescue of the stranding pools downstream of Merwin dam following the AWS pump test flows that occurred on Friday May 20, 2014. This work was called for during the June 12th monthly ACC meeting. Two boats and crews were involved: one from PacifiCorp and one from WDFW. We worked together in the first pool and Josh held that data. We decided while working the first pool that this area was not likely to dry up since there was some hyporheic flow. Most of the fish in this pool were coho so the group decided that in any pools like this, that did not contain Chinook, the coho could remain since they were not in danger and the habitat they were in supported their lifecycle. The group also worked the Islands at Haapa and Josh also has that data. We then split up with the PacifiCorp boat and Michelle checking pools upstream and WDFW with Josh checking downstream. The following is a summary of the findings from the upstream effort:

Area	Fall Chinook fry	Coho	Steelhead	Lamprey
Big Bar	18	148	0	1
Cattle Bar	7	170	1 yearling	1
Hagedorn's	0	2	0	0

Fall Chinook and the yearling steelhead were taken by bucket to a quiet pool along the main channel. Josh can you provide a summary of WDFW's efforts?

Thanks

Principal Aquatic Scientist
PacifiCorp Energy
Hydro Resources Implementation and Compliance
825 NE Multnomah St. Suite 1500
Portland, OR 97232

Ph: 503-813-6622
Cell: 503-320-7423

McCune, Kimberly

From: McCune, Kimberly
Sent: Thursday, July 03, 2014 4:04 PM
To: (Aaron.roberts@dfw.wa.gov); (michael_hudson@fws.gov); (Timothy_Whitesel@fws.gov); 'Adam Haspiel (ahaspiel@fs.fed.us)'; 'Bart Stepp'; 'Bob Rose (rosb@yakamafish-nsn.gov)'; 'Bryan Nordlund'; cser461@ECY.WA.GOV; 'Diana MacDonald'; Doyle, Jeremiah; Eli Asher (easher@cowlitz.org); 'Eric Kinne'; Ferraiolo, Mark; Fish First (j.malinowski@ieee.org); gghalseth@gmail.com; James H Malinowski (jim.malinowski@icloud.com); 'Jeff Breckel'; Karchesky, Chris; Karen Adams; 'Kathryn Miller (kmiller@tu.org)'; Ken Weiman (kwieman@fs.fed.us); Lesko, Erik; 'LouEllyn Jones'; 'Mariah Stoll-Smith Reese (M.Reese@tds.net)'; 'Maynard, Chris (ECY)'; 'Melody Tereski'; 'Michelle Day'; Olson, Todd; Pam Johnson (johnson@co.skamania.wa.us); Patrick Frazier (pfrazier@lcfwb.gen.wa.us); 'Patrick Lee'; Peggy Miller; 'Rhidian Morgan (rmmorgan@plasnewydd.org)'; 'Ruth Tracy'; Samagaio, James; 'Shannon Wills'; Shrier, Frank; Taylor Aalvik (taylor.a@cowlitz.org); Weatherly, Briana
Subject: UPDATE: Merwin fish sorting facility outage
Importance: High

Attn: ACC Participants

Please be advised that the repairs to the damaged elevator shaft at the Merwin Fish Sorting Facility were completed ahead of schedule and the trap was put back into service yesterday afternoon.

This morning, we collected and sorted 356 hatchery summer steelhead.

Wishing each of you a safe and happy July 4th holiday.

Kimberly McCune
Sr. Project Coordinator
PacifiCorp Energy - Hydro Resources
825 NE Multnomah, Suite 1500
Portland, OR 97232
Ph: (503) 813-6078

From: McCune, Kimberly
Sent: Thursday, June 26, 2014 9:32 AM
To: HML LRN (Roberts, Aaron); (michael_hudson@fws.gov); (Timothy_Whitesel@fws.gov); Adam Haspiel (ahaspiel@fs.fed.us); HML LRN (Stepp, Bart); Bob Rose (rosb@yakamafish-nsn.gov); Bryan Nordlund; cser461@ECY.WA.GOV; Diana MacDonald; Doyle, Jeremiah; Eli Asher (easher@cowlitz.org); HML LRN (Kinne, Eric); Ferraiolo, Mark; Fish First (j.malinowski@ieee.org); gghalseth@gmail.com; James H Malinowski (jim.malinowski@icloud.com); 'Jeff Breckel'; Karchesky, Chris; Karen Adams; Kathryn Miller (kmiller@tu.org); Ken Weiman (kwieman@fs.fed.us); Lesko, Erik; LouEllyn Jones; Mariah Stoll-Smith Reese (M.Reese@tds.net); Maynard, Chris (ECY); Melody Tereski; Michelle Day; Olson, Todd; Pam Johnson (johnson@co.skamania.wa.us); Patrick Frazier (pfrazier@lcfwb.gen.wa.us); Patrick Lee; Peggy Miller; HML LRN (Morgan, Rhidian); Ruth Tracy; Samagaio, James; Shannon Wills; Shrier, Frank; Taylor Aalvik (taylor.a@cowlitz.org); Weatherly, Briana
Subject: Merwin fish sorting facility outage

Attn: ACC Participants

Yesterday, the elevator shaft supporting the fish hopper at the Merwin Fish Sorting Facility was damaged during a contracted third party inspection of the Merwin Powerhouse gantry crane. The damage was caused to the mono-beam supporting the hopper hoist (see attached photo). In its current condition, the fish lift is inoperable. PacifiCorp is currently working with the contractor and design engineers to implement a temporary fix in order to resume operation of the fish trap hopefully by sometime next week. No fish are entering the facility as the ladder entrance is closed. The trap was previously dewatered for maintenance to the AWS pipe. All collected fish (approximately 70 summer steelhead) were taken to the hatchery for broodstock. We will keep the ACC informed as details on the repair schedule develop.

Thank you.

Kimberly McCune

Sr. Project Coordinator

PacifiCorp Energy - Hydro Resources

825 NE Multnomah, Suite 1500

Portland, OR 97232

Ph: (503) 813-6078

Lewis River Fish Passage Report

June 2014

Merwin Sorting Facility Fish Collection and General Operations

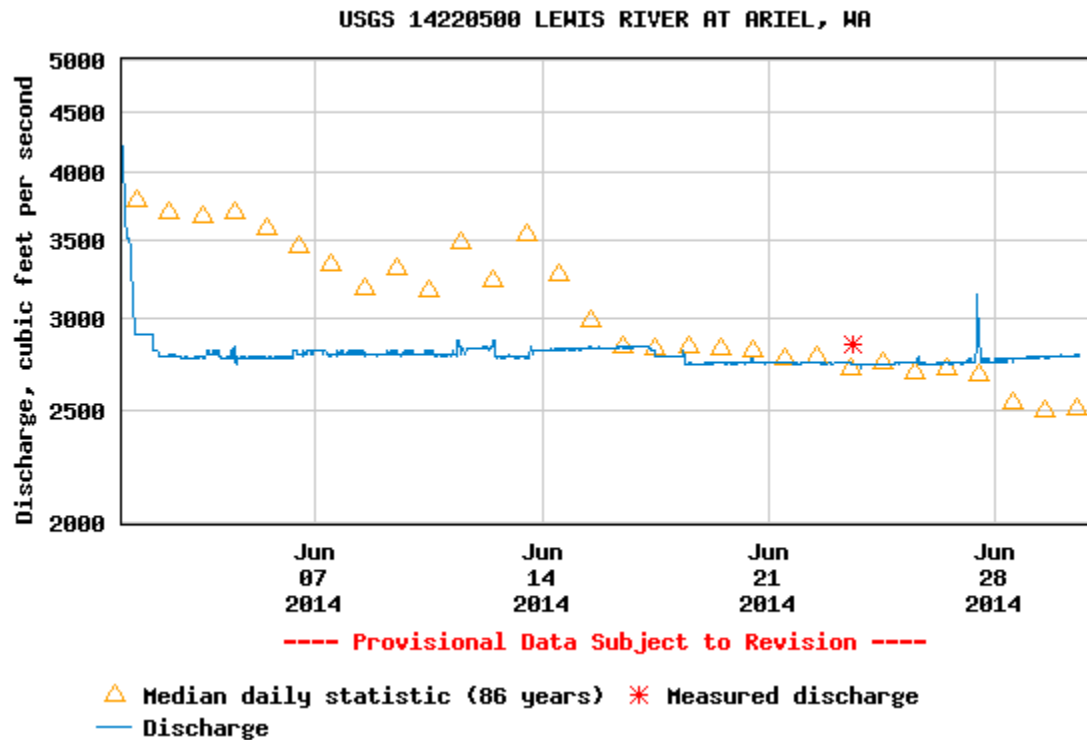
During the month of June, a total 800 fish were captured at the Merwin Fish Sorting Facility; the majority (84%) of these fish were hatchery summer steelhead (n = 669). Of these 669 collected, 211 (32%) were fish that were previously captured at the Merwin Sorting Facility, marked, and release back downstream as part of Washington Department of Fish and Wildlife's fish recycling program. One wild summer steelhead (n=1) was captured and returned to the lower river. Spring Chinook (n=86) continued to be collected in June, although their numbers to decline throughout the month. To date, 890 spring Chinook were captured at the Merwin Facility this year. Ten winter steelhead (n=10) were collected in June; the majority of these fish (80%) had previously spawned and were returned to the lower river. Other species collected in June included sockeye salmon (kokanee) (n=6), spring Chinook smolt (n=1), cutthroat trout (> 13 inches; n = 1), resident rainbow trout (n = 7), mountain whitefish (n=11), and northern pikeminnow (n=8).

The Merwin Sorting Facility had a number of outages during June due to minor mechanical failures associated with the fish lift and conveyance systems. PacifiCorp has worked with the designed engineers and contractor to resolve many of these issues. On June 25th, the elevator shaft supporting the fish hopper was damaged during a contracted third party inspection of the Merwin Powerhouse gantry crane. Actions are currently underway to repair the damage. Under the current repair schedule, the Merwin facility should be back online by early July.

The Auxiliary Water Supply (AWS) system, which boosts attraction flow to 400 cfs, was operated intermittently as testing continues. The 30 cfs Ladder Water Supply (LWS) system continued to operate throughout the month.

River flow at Merwin Dam fluctuated from about 2,740 cubic feet per second (cfs) to 4,380 cfs throughout the month of June. A two hour spill event occurred on June 27th.

Discharge, cubic feet per second



Upstream Transport

A total of two male winter steelhead obtaining a Blank Wire Tag (BWT) were transported upstream during June 2014 (One of which was captured at Lewis River Fish Hatchery). Including these fish, a total 1,033 (452 m: 581 f) BWT steelhead have been transported and released into the headwaters of Swift Reservoir this season in addition to 12 cutthroat trout exceeding 13 inches in length. All other fish collected at the Merwin Sorting Facility in June were returned to the river downstream of Merwin Dam or transported to a hatchery facility.

Swift Floating Surface Collector

The FSC went back into operation on March 31, 2014 after completion of Phase I of the Swift barrier net project. A total of 3,502 fish were collected during the month of June. The majority (76 percent) of these fish were coho smolts (n=2,650), followed by spring Chinook smolts (n=419), hatchery rainbow trout (n=200), steelhead smolts (n=117), and cutthroat trout (n=108). Two adult steelhead kelts were captured and returned to the lower Lewis River. Three juvenile bull trout were captured and returned back to Swift Reservoir along with 200 hatchery rainbow trout.

Fish Facility Report
Swift Floating Surface Collector
June 2014

Day	Coho		Chinook		Steelhead			Cutthroat			Bull Trout			Planted Rainbow
	fry	smolt	fry	smolt	fry	smolt	kelt	fry	< 13 in	> 13 in	fry	< 13 in	> 13 in	
01	0	127	0	25	0	15	0	0	11	0	0	0	0	5
02	0	145	0	43	0	16	1	0	11	0	0	2	0	7
03	0	138	0	35	0	6	0	0	13	0	0	0	0	7
04	1	80	0	22	0	13	0	0	8	0	0	0	0	5
05	0	125	0	16	0	5	0	0	11	0	0	0	0	8
06	0	104	0	14	0	4	0	0	8	0	0	0	0	5
07	0	166	0	21	0	5	0	0	10	0	0	0	0	2
08	0	154	0	29	0	6	0	0	4	0	0	0	0	7
09	0	59	0	1	0	1	0	0	1	0	0	0	0	4
10	0	46	0	7	0	9	0	0	0	0	0	0	0	3
11	0	30	0	5	0	2	0	0	2	0	0	0	0	9
12	0	23	0	6	0	2	0	0	1	0	0	0	0	0
13	0	47	0	4	0	2	0	0	0	1	0	0	0	3
14	0	85	0	10	0	5	0	0	8	0	0	0	0	22
15	0	52	0	5	0	3	0	0	0	0	0	1	0	9
16	0	31	0	17	0	4	0	0	3	0	0	0	0	16
17	0	10	0	15	0	1	0	0	2	0	0	0	0	16
18	0	12	0	15	0	0	0	0	2	0	0	0	0	13
19	0	11	0	12	0	2	0	0	0	0	0	0	0	3
20	0	11	0	12	0	0	0	0	2	0	0	0	0	6
21	0	29	0	28	0	3	0	0	2	0	0	0	0	5
22	0	28	0	4	0	1	0	0	0	0	0	0	0	0
23	0	42	0	13	0	1	0	0	2	0	0	0	0	3
24	0	69	0	10	0	1	0	0	1	0	0	0	0	2
25	0	105	0	17	0	0	0	0	0	0	0	0	0	12
26	0	82	0	5	0	0	1	0	0	0	0	0	0	3
27	0	69	0	12	0	2	0	0	1	0	0	0	0	10
28	1	37	0	8	0	2	0	0	0	0	0	0	0	3
29	1	324	0	5	0	4	0	0	2	0	0	0	0	5
30	0	409	0	3	0	2	0	0	2	0	0	0	0	7

Monthly	3	2650	0	419	0	117	2	0	107	1	0	3	0	200
Annual	1516	5746	0	810	1	492	6	0	722	3	0	3	2	553

The FSC continued to operate on a daily basis throughout the month of June.
 Two adult steelhead (kelts) were collected and transported downstream.
 All coho, Chinook and steelhead smolts and cutthroat were transported downstream.
 All fry, bull trout, and planted rainbow were returned to Swift Reservoir.

