

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

**Date & Time:** Thursday, June 8, 2017  
9:00 a.m. – 3:00 p.m.

**Place:** Merwin Hydro Control Center  
105 Merwin Village Court  
Ariel, WA 98603

**Contacts:** Frank Shrier: (503) 320-7423

<b>Time</b>	<b>Discussion Item</b>
9:00 a.m.	Welcome <ul style="list-style-type: none"> <li>➤ Review Agenda and ACC 5/11/17 Meeting Notes</li> <li>➤ Comment &amp; Accept Agenda and 5/11/17 Meeting Notes</li> </ul>
9:10 a.m.	Public Comment Opportunity
9:20 a.m.	Study/Work Product Updates <ul style="list-style-type: none"> <li>○ H&amp;S Plan Update</li> <li>○ In Lieu Workgroup Update</li> <li>○ Woodland Release Ponds Construction - Status</li> <li>○ Acclimation Ponds - Status</li> <li>○ Merwin Upstream Passage – Status</li> <li>○ Swift Floating Surface Collector – Status</li> </ul>
9:45 a.m.	<ul style="list-style-type: none"> <li>➤ Next Meeting’s Agenda</li> <li>➤ Public Comment Opportunity</li> </ul> Note: all meeting notes and the meeting schedule can be located at: <a href="http://www.pacificorp.com/es/hydro/hl/lr.html#">http://www.pacificorp.com/es/hydro/hl/lr.html#</a>
10:00 a.m.	Safety <sup>1</sup> orientation for Field Tour
10:10 a.m.	Depart for Field Tour <ul style="list-style-type: none"> <li>➤ Revisit Acclimation Pond Sites</li> </ul>
<b>3:00 p.m.</b>	<b>Adjourn</b>

<sup>1</sup> Please bring sturdy walking shoes for hiking in the forest. PacifiCorp will have 2 vehicles for transportation of up to 4 additional passengers.

Join by Phone

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

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

**Conference ID: 2506249**

**PLEASE BRING YOUR LUNCH**

**FINAL Meeting Notes**  
**Lewis River License Implementation**  
**Aquatic Coordination Committee (ACC) Meeting**  
**June 8, 2017**  
**Merwin Hydro Control Center & Field Tour**  
**Ariel, WA**

**ACC Participants Present (14)**

Frank Shrier, PacifiCorp  
 Kim McCune, PacifiCorp  
 Chris Karchesky, PacifiCorp  
 Erik Lesko, PacifiCorp  
 Jim Malinowski, Fish First  
 Eli Asher, Cowlitz Indian Tribe  
 Peggy Miller, WDFW  
 Pat Frazier, WDFW  
 Aaron Roberts, WDFW  
 Ruth Tracy, USDA Forest Service  
 Sam Kolb, USFWS  
 Michelle Day, NMFS  
 Steve Manlow, LCFRB (via conference)

**Guests (1)**

Tom Wadsworth, WDFW

**Calendar:**

July 13, 2017	ACC Meeting	Merwin Hydro
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<b>Assignments from June 8, 2017</b>	<b>Status</b>
ACC: Review and comment on Aquatic Fund process documents and bring forward priority issues at the July ACC meeting.	<b>Complete – 7/13/17</b>
Shrier: Review discharge report and report back to the ACC regarding large fluctuations in early to mid-May, 2017.	<b>Complete – 6/21/17</b>
Frazier: Call a meeting with the Bull Trout Survey subgroup (LCFRB, Cowlitz Tribe and Forest Service) attendees in order to complete the 2013 Bull Trout Habitat Assessment Project by 12/31/2017.	<b>Complete – 7/12/17, Bryce Michaelis will be lead going forward</b>
Shrier/McCune: Write an acclimation ponds plan to include before/after photos and submit to the ACC for review and approval.	<b>Complete – 7/13/17</b>

<b>Assignments from May 11, 2017</b>	<b>Status</b>
Karchesky: Provide a Fall integrated Spring Chinook distribution plan to the ACC in September 2017.	<b>Pending</b>

<b>Assignments from April 13, 2017</b>	<b>Status</b>
Karchesky: Provide preliminary results of 2017 Merwin Adult Trap Efficiency for Winter Steelhead - report to ACC during July meeting.	<b>Complete – 7/13/17</b>

## **Opening, Review of Agenda and Meeting Notes**

Frank Shrier (PacifiCorp) called the meeting to order at 9:15 a.m. and reviewed the agenda. No agenda additions were requested.

Shrier also reviewed the May 11, 2017 meeting notes and assignments. The meeting notes were approved at 9:25 a.m. to include the following clarification to the paragraph below on pg. 5 of the May 11, 2017 meeting notes:

*It was noted by PacifiCorp and WDFW that spring Chinook collection was much better than past years and there should be some fish available for upstream transport. It was also noted that once WDFW reaches their adult spring Chinook broodstock needs (estimated at 1,100 adults) the remainder of the hatchery fish can be transported upstream. Coded wire tagged fish will be retained at the hatchery. All wild fish in excess of acclimation brood stock will be transported upstream.*

## **Public Comment**

None

## **Study/Work Product Updates**

### **H&S Plan Update**

PacifiCorp has scheduled a subgroup meeting for June 15, 2017 at the WDFW, Vancouver office. The subgroup has been working about a year on finding ways to produce spring Chinook smolts that are healthier and emigrate quickly. The subgroup will be reviewing release timing, feeding schedules and rates, and water quality (TDG) to see if any rearing problems exist. The subgroup continues to work towards producing a final 2018 Annual Operating Plan by December 31, 2017.

### **In Lieu Fund**

Consensus among the Science Workgroup was not reached. The draft decision support document is with the Science Workgroup for a 30-day review period; comments are due June 23, 2017.

### **Woodland Release Ponds/Construction Update**

Now under construction. The ponds will be ready late-Fall 2017 for out migrants; above ground work is underway and in-water work will begin August 1, 2017.

### **Acclimation Ponds Update**

Revisit Clear Creek and Crab Creek acclimation pond sites to see what happened over the past winter. Given time the ACC will also visit the Muddy River site. The large well is in the dry and the ACC is hopeful it will remain that way for a summer 2018 removal. The Army Corps representative expressed he would not be able to finish the permitting process for its removal in 2017 at an earlier meeting with PacifiCorp and USFS. If the ACC decides to remove structures at all three acclimation pond sites the Army Corps wants PacifiCorp to submit permit applications for all three at the same time.

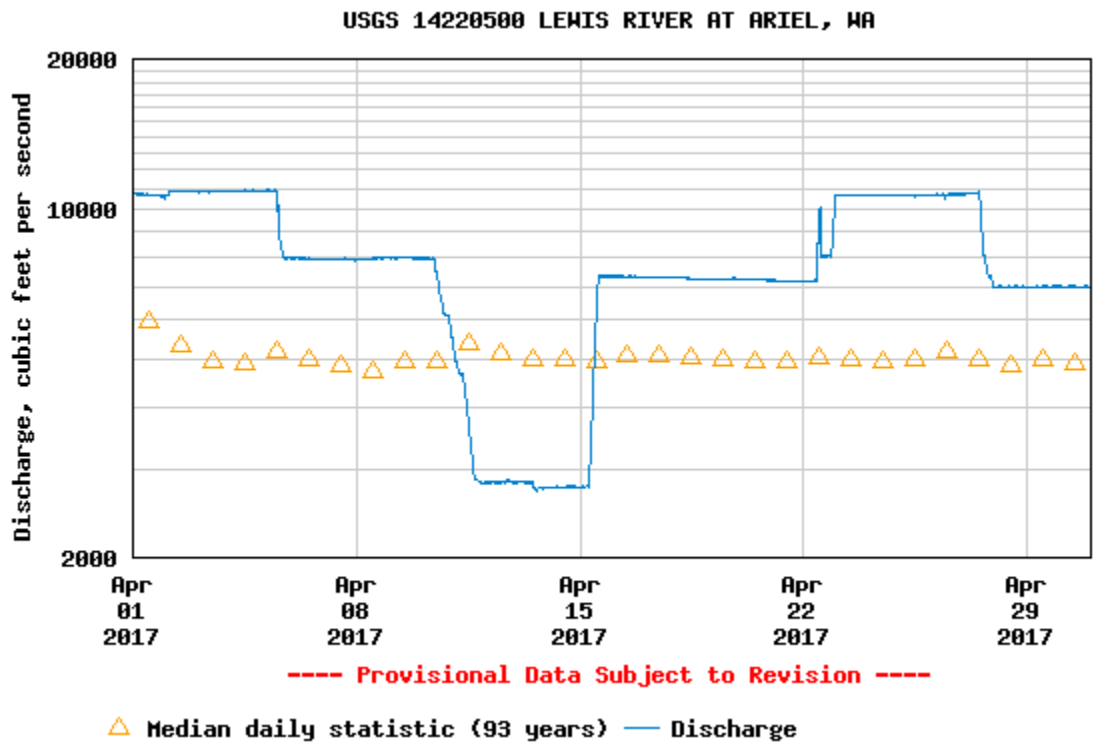
### **Merwin Fish Collection Facility and General Operations ([Attachment A](#))**

During the month of April, a total 860 fish were captured at the Merwin Adult Fish Collection Facility. The majority of these fish were winter steelhead (551 - 64%) of both hatchery and wild

(NOR and Blank Wire Tag) origin and spring Chinook (290 – 33%). All hatchery fish were given to Washington Department of Fish and Wildlife. Five coastal cutthroat greater than 13-inches were also captured this month. A total of 332 spring Chinook have been captured at the Merwin Trap through April 2017.

The Merwin Dam adult fish trap ran continuously through the month of April. River flow below Merwin Dam fluctuated between 2,850 and 10,900 cfs throughout the month.

### Discharge, cubic feet per second



### Upstream Transport ([Attachment A](#))

Karchesky provided a summary of upstream transport. A total of 345 Blank Wire Tag (BWT) winter steelhead were transported upstream above Swift Dam in April 2016. These fish combined for a total of 546 BWT winter steelhead transported as part of the 2017 run year. One hundred forty-five BTWs have been radio tagged and released back downstream so far as part of the Merwin Adult Trap Efficiency (ATE) Evaluation, which began February 16, 2017. Seventy-nine of these fish had been recaptured and transported upstream by the end of April. Twelve coastal cutthroat trout have been transported upstream in 2017.

2017 Late-Winter Steelhead (BWTs) (thru April 2017)

Male	Female	Total
305	241	546

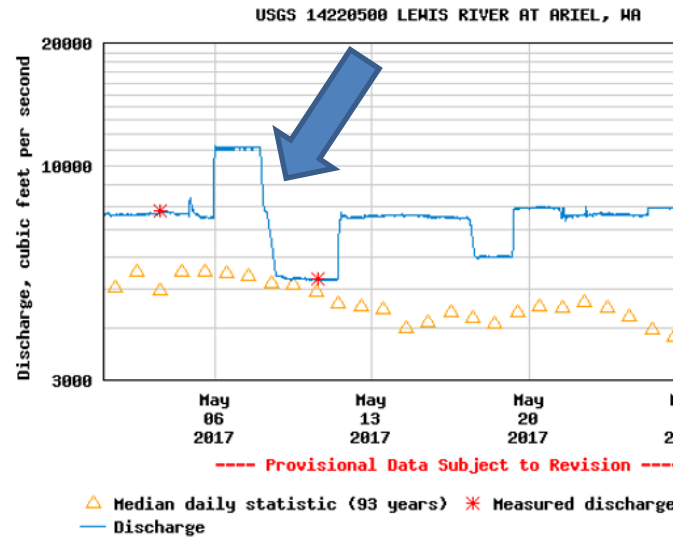
### Swift Floating Surface Collector ([Attachment A](#))

Karchesky provided a brief overview of the Swift Floating Surface Collector operations. During the month of April, nearly 3,000 fish were collected at the Swift FSC. Except for bull trout and planted rainbows, all fishes (and life-stages) were transported downstream. Surface water

temperatures in Swift Reservoir remained low through the month of April and ranged typically between 5 and 6° C. The Swift FSC ran continuously throughout the month of April.

**Other (Attachment A)**

Shrier to review discharge report and report back to the ACC regarding large fluctuations in early to mid-May, 2017 (see below).



**Safety Orientation:**

Shrier informed the ACC attendees that we are traveling to remote sites, there is spotty cell coverage with Verizon but a radio is available. The evacuation route is back to the Eagle Cliff store. Surface areas we will experience will be wet and slippery, there will be tripping hazards. It will likely be raining so try to avoid stepping on moss covered rocks due to slippage. Also, biting insects may be present. – bring your tick magnets!

Erik Lesko shared with the ACC an event that occurred during the Memorial Day weekend in which the emergency generator that feeds both the Merwin Powerhouse and Merwin Hatchery pumps failed. In the event of a power failure, the fish pumps (and Merwin Powerhouse) would not be operable and water flow to the hatchery would stop. As a precautionary measure and without delay, the production manager, Joe LaMere (PacifiCorp), placed three of his crew on standby and ordered a temporary backup generator. The backup generator was placed in service at 10PM on Sunday evening to provide power to the hatchery pumps in the event of a power failure. This is one example of how staff at Hydro North prioritizes and acts to respond to compliance needs on the Lewis River.

A new breaker and cooling line was ordered and the onsite backup generator is currently back in service.

*Depart for Field Tour of Acclimation Pond sites 10:10 am  
(tour photos to be provided under separate cover with an acclimation pond plan)*

**Agenda items for July 13, 2017**

- June 8, 2017 Meeting Notes
- Review and Edit Aquatic Fund Process Documents
- Study/Work Product Update

**Next Scheduled Meeting:**

July 13, 2017
Merwin Hydro Control Center
Ariel, WA
9:00 a.m. - 2:00 p.m.

**Meeting Handouts & Attachments:**

- Meeting Notes from 5/13/17
- Agenda from 6/8/17
- **Attachment A** – Lewis River Fish Passage Report (May 2017)

# Lewis River Fish Passage Report

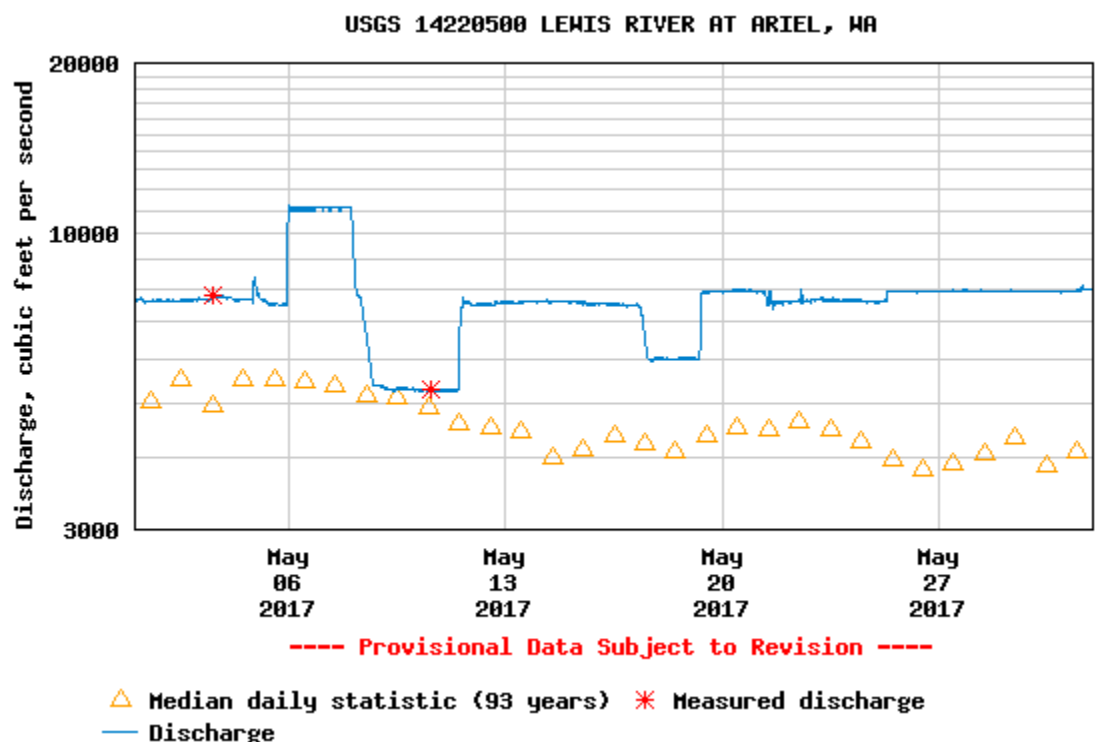
## May 2017

### Merwin Fish Collection Facility and General Operations

During the month of May, a total 2,093 fish were captured at the Merwin Adult Fish Collection Facility. The vast majority of these fish were spring Chinook (1,905 - 91%) of both hatchery and wild origin. A total of 2,199 spring Chinook have been captured at the Merwin Trap through May 2017. While a few fresh winter steelhead (n=61) continued to arrive at the trap throughout the month, their numbers declined as the run comes to a close. In contrast, summer steelhead have begun to arrive with over 100 fish already collected by the end of May.

The Merwin Dam adult fish trap ran continuously through the month of May. River flow below Merwin Dam fluctuated between 5,270 and 11,100 cfs throughout the month.

### Discharge, cubic feet per second



### Upstream Transport

A total of 52 Blank Wire Tag (BWT) winter steelhead were transported upstream above Swift Dam in May 2016. These fish combined for a total of 598 BWT winter steelhead transported as part of the 2017 run year. One hundred-fifty BTWs have been radio tagged and released back downstream

as part of the Merwin Adult Trap Efficiency (ATE) Evaluation, which began February 16, 2017. Of these fish, 116 had been recaptured and transported upstream by the end of May.

2017 Late-Winter Steelhead (BWTs) (thru May 2017)

Male	Female	Total
326	272	598

PacifiCorp began transporting adult spring Chinook to the upper basin on May 18, 2017. By the end of the month, a total of 565 fish had been transported and released at the head of Swift Reservoir.

2017 Spring Chinook (thru May 2017)

Male	Female	Jacks	Total
167	204	194*	598

\* Contain approximately 25% females < 24 inch ("Jills").

*Special Note:* The first confirmed upper basin spring Chinook arrived back to Merwin Trap on May 30, 2017. PIT Tag: 3DD.003BC95E80 was released in Clear Creek in 2014 and passed the FSC the same year. The fish was transported back to the upper basin and released.

Table 1. Complete tag history for fish 3DD.003BC95E80 shown below.

Tag	Event Type - Old	Event Site	Event Species Code	Event Species Name	Event Date	Event Type	Metrics	CTH Count
3DD.003BC95E80	Mark/Release	CLEA3C - Clear Creek - tributary to Muddy River	1	Chinook	3/1/2014	Mark		1
3DD.003BC95E80	Obs	SHP - Swift Hydroelectric Project		Unknown	6/1/2014	Observation		1
3DD.003BC95E80	Obs	MHP - Merwin Hydroelectric Project		Unknown	5/30/2017	Observation		1
3DD.003BC95E80	Recap	MHP - Merwin Hydroelectric Project	1	Chinook	5/30/2017	Recapture		1

**Floating Surface Collector**

During the month of May, nearly 3,000 fish were collected at the Swift FSC. Except for bull trout and planted rainbows, all fishes (and life-stages) were transported downstream. Surface water temperatures in Swift Reservoir continued to remain low through the month of May and ranged typically between 7 and 11°C. Two brief outages occurred during the month. The first occurred on May 26, 2017 when the FSC experienced a power outage that resulted in all the hoists being without power. Consequently, no fish were processed that day but were instead were processed the next day once power was restored. The FSC attraction pumps continued to operate during this outage. The second, occurred on May 29, 2017 when operation of the Swift FSC was temporarily suspended due to a faulted communication connection in the vessel's ballasting system. The failure caused the fish attraction pumps to shut down. The connection was repaired May 30, 2017 and the FSC was placed back in service.





**Fish Facility Report**  
**Swift Floating Surface Collector**  
**May 2017**

Day	Coho			Chinook			Steelhead				Cutthroat			Bull Trout	Planted Rainbow	Total
	fry	parr	smolt	fry	parr	smolt	fry	parr	smolt	kelt	fry	< 13 in	> 13 in			
01	0	3	8	0	0	24	0	1	30	0	0	3	0	0	50	119
02	0	3	8	0	0	18	0	0	9	0	0	0	0	0	9	47
03	1	1	7	0	0	46	0	0	11	0	1	0	0	0	12	79
04	0	2	6	0	1	7	0	2	46	0	0	6	1	0	17	88
05	0	2	5	0	0	5	0	0	5	1	0	1	0	1	9	29
06	0	0	4	0	0	3	0	0	3	0	0	0	0	0	16	26
07	0	1	9	0	0	10	0	0	25	0	0	1	0	0	27	73
08	0	5	2	0	0	7	0	0	23	0	0	2	0	0	9	48
09	0	0	1	0	0	8	0	0	11	1	0	3	0	0	3	27
10	0	0	4	0	0	2	0	0	29	0	0	2	0	0	3	40
11	0	0	0	0	0	0	0	0	24	0	0	1	0	0	0	25
12	0	0	3	0	0	0	0	0	9	0	0	0	0	0	1	13
13	0	0	2	0	0	2	0	0	18	0	0	1	0	0	6	29
14	1	0	12	0	0	1	0	3	19	0	0	1	0	0	9	46
15	6	1	19	0	0	4	0	0	81	0	0	2	0	0	14	127
16	0	1	32	0	0	0	0	1	23	0	0	3	0	0	7	67
17	30	5	29	0	0	2	0	0	17	0	0	7	0	0	19	109
18	0	0	65	0	0	5	0	0	37	0	0	14	1	0	13	135
19	0	0	42	0	0	2	0	0	26	0	1	0	0	0	10	81
20	5	0	15	0	0	1	0	0	20	0	0	3	0	0	4	48
21	1	8	29	0	0	5	0	0	34	0	0	7	0	1	0	85
22	1	1	20	0	0	1	0	0	19	2	0	3	0	0	0	47
23	0	3	88	0	0		0	1	27	0	0	10	0	0	3	132
24	0	2	164	0	0	4	0	0	59	0	0	11	0	0	0	240
25	2	4	171	0	0	1	0	1	25	0	0	12	0	0	3	219
26																
27	3	5	215	0	0	20	0	0	108	0	0	13	0	0	16	380
28	0	1	46	0	0	1	0	0	32	0	0	1	1	0	3	85
29		5	96	0	0	2	0	0	24	0	0	5	0	0	17	149
30																
31	1	3	76	0	0	3	0	0	37	0	0	0	0	0	9	129

<b>Monthly</b>	51	56	1178	0	1	184	0	9	831	4	2	112	3	2	289	<b>2722</b>
<b>Total</b>	3195	502	1831	0	42	645	0	41	1051	5	13	196	11	6	1756	<b>9294</b>

