

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

Date & Time: Thursday, April 13, 2017
9:00 a.m. – 10:45 a.m.

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

Contacts: Frank Shrier: (503) 320-7423

Time	Discussion Item
9:00 a.m.	Welcome <ul style="list-style-type: none"> ➤ Review Agenda and ACC 3/9/17 Meeting Notes ➤ Comment & Accept Agenda and 3/9/17 Meeting Notes
9:10 a.m.	Public Comment Opportunity
9:15 a.m.	Discuss plan for updating the Aquatic Fund criteria to include additional engineering in future proposals
10:00 a.m.	Study/Work Product Updates <ul style="list-style-type: none"> ○ H&S Plan Update ○ In Lieu Workgroup Update ○ Woodland Release Ponds/Permit - Status ○ Acclimation Ponds – Status/set up time to revisit sites ○ Merwin Upstream Passage – Status ○ Swift Floating Surface Collector – Status
10:30 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#
10:45 a.m.	Adjourn

Join by Phone

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

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

Conference ID: 2506249

FINAL Meeting Notes
Lewis River License Implementation
Aquatic Coordination Committee (ACC) Meeting
April 13, 2017
Merwin Hydro Control Center
Ariel, WA

ACC Participants Present (11)

Frank Shrier, PacifiCorp
 Kim McCune, PacifiCorp (via phone)
 Chris Karchesky, PacifiCorp
 Amanda Froberg, Cowlitz PUD
 Eli Asher, Cowlitz Indian Tribe
 Peggy Miller, WDFW (via phone)
 Pat Frazier, WDFW
 Aaron Roberts, WDFW
 Ruth Tracy, USDA Forest Service
 Mark Celedonia, USFWS (via phone)
 Michelle Day, NMFS

Guests (1)

Carol Serdar, WDOE

Calendar:

May 11, 2017	ACC Meeting	Merwin Hydro
Assignments from April 13, 2017		Status
Shrier: Research rationale of fish release and report to the ACC at the May 11, 2017 meeting.		Complete – 5/11/17
Asher: Provide SRFB and BOR funding process documents to the ACC for their review.		Complete – 5/9/17
Shrier: Provide map of priority reaches map to the ACC.		Complete – 5/1/17
Frazier: Revisit Spring Chinook language in the Aquatic Fund process document and report to the ACC.		Pending
Karchesky: Provide primary results of 2017 Merwin Adult Trap Efficiency for Winter Steelhead - report to ACC during July meeting.		
Shrier/McCune: Review Aquatic Fund budget, current spending average and when fund will run out of money; report to the ACC.		Complete – 5/1/17
McCune: Email Aquatic Fund 2016/2017 application to Frazier.		Complete – 4/13/17

Opening, Review of Agenda and Meeting Notes

Frank Shrier (PacifiCorp) called the meeting to order at 9:05 a.m. and reviewed the agenda. Aaron Roberts (WDFW) requested an addition to add discussion about the 50,000 integrated spring Chinook fry and what to do with the extra 20,000. Previously WDFW had indicated that 30,000 fish were available for release in fall 2017, however this was an under estimate. A total of 50,000 are now projected.

Shrier also reviewed the March 9, 2017 meeting notes and assignments. The meeting notes were approved at 9:10 a.m. without changes.

Public Comment

None

Discuss Plan for Updating the Aquatic Fund Criteria to include additional engineering in Future Proposals

The ACC discussed a variety of other funding processes and their published guidelines i.e. Bureau of Reclamation, Lower Columbia Fish Recovery Board, Salmon Recovery Funding Board and Manual 18 (Salmon Recovery Grants). Some processes adopt stricter requirements for projects requesting \$250,000+ to include preliminary engineering designs, appropriate level of hydraulic modeling, design detail (site map style), accompanied by a design report to include a watershed processes. SRFB excludes the cost of application preparations as reimbursable costs.

The ACC discussed the following for inclusion into the Aquatic Fund application:

- Structural stability
- Dam safety
- Cumulative impacts
- Water quality
- Scour depth
- Ability to Withstand certain high flows

The ACC also mentioned consideration for a more technical subgroup to review proposals and make recommendations to the ACC.

The bullet items below from the March 9, 2017 ACC meeting notes have been listed below so the ACC does not lose sight of these considerations:

- What should project designs look like for future projects?
- Should 30% design level be expected at the full proposal stage?
- Should a hydraulic analysis be provided?
- Should an Engineering stamp be required?
- Should project sponsors use Manual 18 guidelines?

These questions will be addressed at future ACC meetings and will be considered for incorporation into the requirements for future proposed instream structures.

<Break 10:20am>

<Reconvene 10:35am>

Study/Work Product Updates

H&S Plan Update

PacifiCorp is working closely with WDFW reviewing rearing practices to improve Chinook return.

In Lieu Workgroup Update

The next scheduled In Lieu Science Workgroup meeting is May 11, 2017.

Woodland Release Ponds/Permit Status

All permits have been received. The DNR signed the aquatic lease with a 3-week turnaround. A contractor has been selected and construction will begin soon. The in-water work will begin mid-August for the pump installation and everything else is above water.

Acclimation Pond Update (Muddy)

Can't access ponds due to snow level to review condition and discuss removal with consultants. A tour to the pond sites will be scheduled for the June ACC meeting.

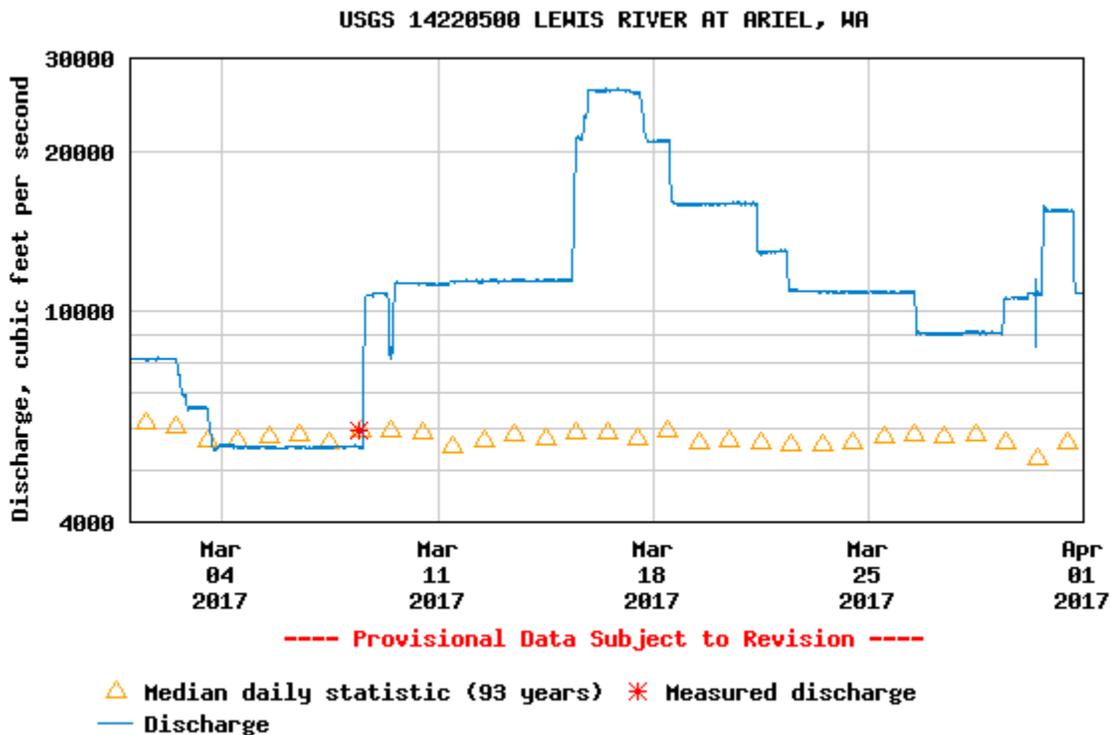
Merwin Fish Collection Facility and General Operations (Attachment A)

Karchesky (PacifiCorp) provided an overview of fish passage operations at the Merwin Fish Collection Facility. During the month of March, a total 284 fish were captured at the facility. The majority of these fish were winter steelhead (256 - 97%) of both hatchery and wild (NOR and Blank Wire Tag) origin. All hatchery fish captured in March were given to Washington Department of Fish and Wildlife. A total of four spring Chinook and four coastal cutthroat greater than 13-inches have been captured at the Merwin Trap through March 2017.

The Merwin Dam adult fish trap ran continuously through the month except during the high water event that occurred from March 16 through March 22, in which the tailrace elevation exceeded the operational limit of the fish lift and conveyance system. During this period, the Auxiliary Water Supply (AWS) system (which can boost attraction flow up to 400 cfs) was turned off along with the fish lift, however the ladder water supply and hatchery return effluent remained on.

River flow below Merwin Dam fluctuated between 5,510 and 26,100 cfs throughout the month of March.

Discharge, cubic feet per second



Karchesky provided a brief overview of the ongoing Adult Trap Efficiency study using Blank Wire Tag (BWT) winter steelhead. Seventy 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. Eleven of these fish had been recaptured and transported upstream by the end of March. This study will continue through the month of May.

Karchesky reminded the ACC that the 2017 evaluation is the third year of migratory behavior studies at the facility and a discussion of results and next steps will be scheduled for the July 2017 ACC meeting.

Upstream Transport (Attachment A)

Karchesky (PacifiCorp) provided a summary of upstream transport. A total of 139 BWT winter steelhead were transported upstream above Swift Dam in March 2017. These fish combined with an additional 18 BWTs transported earlier this winter (November – December 2016), 6 in January and 38 in February 2017, accounts for a total of 201 BWTs transported for the 2017 run year. Seven coastal cutthroat trout have been transported upstream in 2017.

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

Male	Female	Total
123	78	201

Swift Floating Surface Collector (Attachment A)

Karchesky (PacifiCorp) provided a brief overview of the Swift Floating Surface Collector operations. During the month of March, near 3,000 fish were collected at the Swift FSC with the majority of these fish being coho fry (70%; n = 2,000). Except for bull trout and planted rainbows, all fishes (and life-stages) were transported downstream. Karchesky added that the prevalence of coho fry in March is a new development this year and is likely attributed to the recent inclusion of late-coho being now transported upstream as part of recovery efforts. Surface water temperatures in Swift Reservoir remained low through the month of March and ranged typically between 4 and 5°C.

Operation of the Swift FSC was suspended in early March due gear deployment and installation associated with the 2017 Collection Efficiency Evaluation, and again in mid-March on due to of high water and spill conditions. Total flow through Swift Dam (generation combined with spill) from March 18 through 21 met the requirements for lowering the fish barrier net (>17,000 cfs). Under these conditions, the FSC is turned off to prevent attracting fish to the inside of the net as well as minimizing excessive debris loading.

Other

Pat Frazier (WDFW) informed the ACC that he will remain with WDFW through June 2016 and participating fully with the ACC.

Meeting adjourned 11:50am

Agenda items for May 11, 2017

- April 13, 2017 Meeting Notes
- Discuss Aquatic Fund criteria for future proposals
- 50,9000 Integrated Spring Chinook; what to do with extra 20,000
- Study/Work Product Update

Next Scheduled Meeting:

May 11, 2017
Merwin Hydro Control Center
Ariel, WA
9:00 a.m. - 11:30 p.m.

Meeting Handouts & Attachments:

- Meeting Notes from 3/9/17
- Agenda from 4/13/17
- **Attachment A** - Lewis River Fish Passage Report (March 2017)

Lewis River Fish Passage Report

March 2017

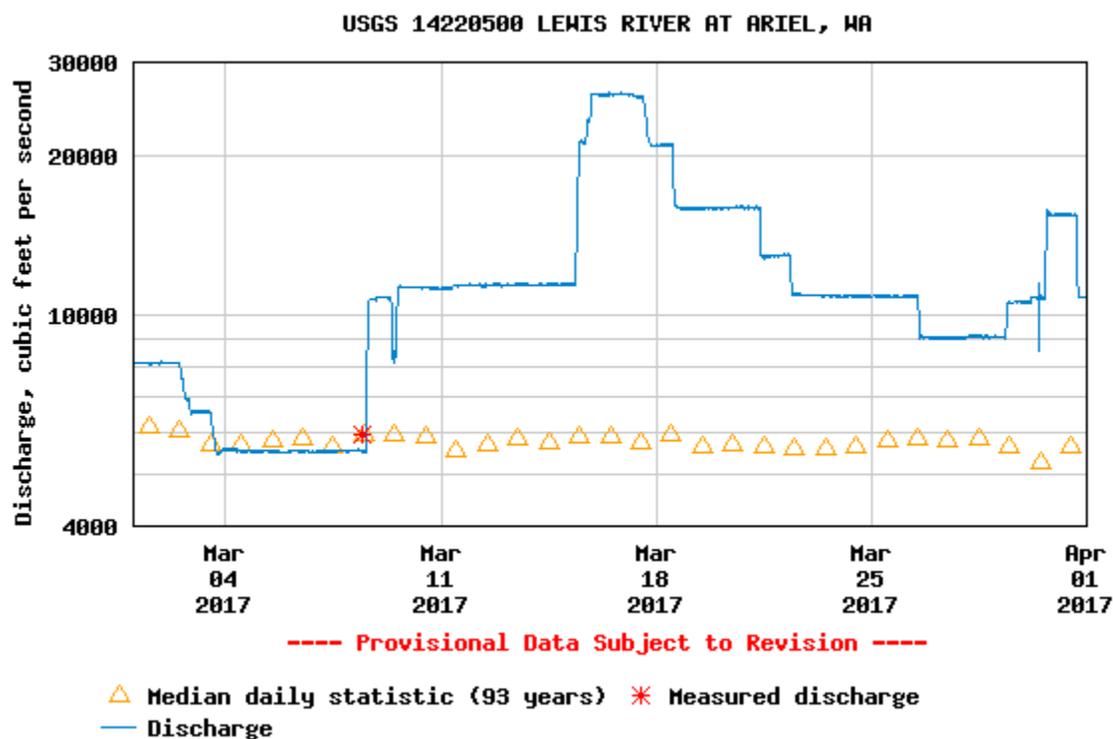
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Fish Facility Report
Swift Floating Surface Collector
March 2017

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																
02																
03	60	6	14	0	0	1	0	0	0	0	0	3	0	0	11	95
04	110	2	7	0	0	1	0	0	0	0	0	1	0	0	0	121
05	85	2	4	0	0	0	0	0	0	0	0	0	0	0	2	93
06	40	1	3	0	0	0	0	0	1	0	0	1	0	0	7	53
07	45	0	6	0	0	0	0	0	0	0	0	0	0	0	6	57
08	35	0	4	0	0	1	0	0	0	0	0	0	0	0	4	44
09	55	0	6	0	0	4	0	0	0	0	1	0	0	0	1	67
10	90	1	2	0	0	0	0	0	0	0	0	2	0	0	2	97
11	132	2	5	0	0	3	0	0	0	0	0	0	0	0	0	142
12	50	1		0	0	0	0	0	0	0	0	2	0	0	2	55
13	100	0	2	0	0	1	0	0	0	0	3	0	0	0	4	110
14	80	1	3	0	1	1	0	0	0	0	0	0	0	0	4	90
15	60	0	4	0	0	0	0	0	0	0	0	0	0	0	1	65
16	12	4	2	0	0	0	0	0	0	0	0	0	0	0	5	23
17	27	10	40	0	0	2	0	0	4	0	0	4	0	0	34	121
18																
19																
20																
21																
22	210	34	15	0	1	13	0	0	1	0	0	10	0	0	17	301
23	119	32	31	0	0	16	0	4	4	0	0	5	0	0	25	236
24	215	16	16	0	12	0	0	1	1	0	0	9	0	0	20	290
25	80	3	11	0	0	1	0	0	0	0	0	0	0	0	10	105
26	90	17	7	0	0	5	0	2	1	0	0	0	1	0	14	137
27	136	11	5	0	1	4	0	1	0	0	0	0	0	0	11	169
28																
29	88	19	11	0	0	12	0	2	1	0	0	0	0	0	22	155
30	26	5	17	0	1	6	0	0	1	0	0	0	0	0	18	74
31	55	11	22	0	0	11	0	1	2	0	0	0	0	0	36	138

Monthly	2000	178	237	0	16	82	0	11	16	0	4	37	1	0	256	2838
Annual	2943	355	463	0	28	257	0	24	28	1	11	57	8	4	595	4774

