LEWIS RIVER AQUATIC COORDINATION COMMITTEE

Facilitator: ERIK LESKO

503-412-8401

Location: TEAMS (online)

Date: March 14, 2024

Time: 9:30 AM - 12:00 PM

AGENDA

9:30 AM Welcome \triangleright Review and Accept 3/14/2024 Agenda Review and Accept 2/08/2024 Meeting Notes 9:40 AM **Public Comment Opportunity** Study/Work Product Updates 10:15 AM Flows/Reservoir Conditions (*Lesko*) Reservoir Shoreline Development Projects (ACC) ATS (Karchesky, ATS) FPS (Glaser, Karchesky) Fish passage/operations (Peinovi) Swift No. 2 Wasteway (*Lesko*) Merwin Spill Events (Lesko) Next meeting agenda FPS April schedule 12:00 PM Meeting Adjourn

Note: all meeting notes and the meeting schedule can be located at: https://www.pacificorp.com/energy/hydro/lewis-river/acc-tcc.html

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Phone Conference ID: 192 877 114#

FINAL Meeting Notes Lewis River License Implementation Aquatic Coordination Committee (ACC) Meeting March 14, 2024 TEAMS Meeting

ACC Representatives and Affiliates Present (15)

Nina Maas, Anchor QEA
Christina E. Donehower, Cowlitz Indian Tribe
Steve West, LCFRB
Steve Manlow, LCFRB
Kathryn Blair, NMFS
Erik Lesko, PacifiCorp
Levi Pienovi, PacifiCorp
Chris Karchesky, PacifiCorp
Jeremiah Doyle, PacifiCorp
Kevin Young, WDFW
Douglas Robison, WDFW
Josua Holowatz, WDFW
Peggy Miller, WDFW
Bryce Glaser, WDFW
Bill Sharp, Yakima Nation

Public:

None.

Assignments:

Assignments from October 12, 2023	Status
Erik Lesko to finalize Northwoods Draw Down Survey reporting	Ongoing

Opening, Review of Agenda and Meeting Notes

Erik Lesko (PacifiCorp) called the meeting to order at 9:32 a.m. and reviewed the agenda. The National Marine Fisheries Service requested the Hatchery and Genetic Management Plan (HGMP) discussion to be delayed until April.

Bryce Glaser asked when the Yale Behavioral Study decision document would be presented, because he expected to see it on the agenda. Chris Karchesky clarified that there were additional comments received since the last Fish Passage Subcommittee (FPS) meeting, and the draft scope of work for the Yale Behavioral Study was revised and resubmitted to the FPS for review. Those changes will be discussed at the FPS meeting that afternoon along with the draft ACC Decision Document. Karchesky hoped the FPS would approve the latest version of the scope of work and decision document, and that both documents could be submitted to the ACC for approval at the April meeting. Glaser thanked Karchesky for clarifying.

The agenda was adjusted and accepted. Meeting note revisions from February 8, 2024, were reviewed; the notes were approved by representatives present.

Public Comment Opportunity

No comment.

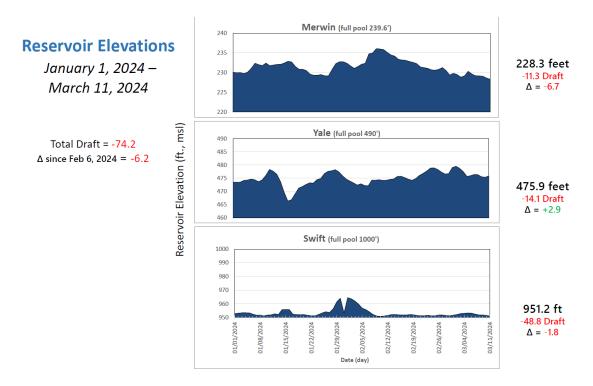
Study/Work Product Updates

Revisions to the Ground Rules

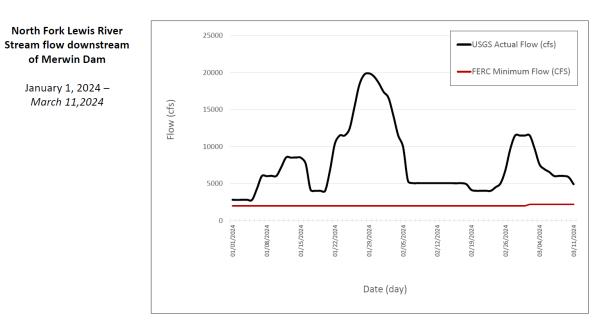
Peggy Miller noted that the Terrestrial Coordination Committee approved the revisions to the Ground Rules.

Flows/Reservoir Conditions Update (see Attachment A)

Erik Lesko presented reservoir elevations. The elevation of Swift Reservoir was down 50 feet (ft), but spill gate work was completed on Tuesday. Following completion, the Swift Reservoir was being filled. The Yale Reservoir was down approximately 14 ft, and Merwin Reservoir was down approximately 11 ft. Lesko indicated that the reservoir management plan is to continue filling in preparation for the start of the recreation season.



He then presented flows downstream of the Merwin Dam and informed the ACC that the Federal Energy Regulatory Commission required minimum flow is currently 2200 cubic feet per second (cfs). He noted two high flow events had occurred since the beginning of the year and that very little precipitation was indicated in the short to mid-term forecast.



Reservoir Shoreline Development Projects

Erik Lesko presented a news release that Josua Holowatz sent earlier in the week regarding a new WDFW process to update rules concerning docks and other floating structures. Lesko asked whether Holowatz thought it would affect the Campers Hideaway project. Holowatz was unsure.

Steve Manlow asked whether someone would send a summary of the recent status of the Campers Hideaway project, specifically in relation to the Hydraulic Project Approval (HPA) application. Holowatz said no HPA had been submitted, and until then, Washington Department of Fish and Wildlife (WDFW) would not have an update. Lesko asked whether construction for the project had been planned already. Manlow said he did not know, but Clark County had started the State Environmental Policy Act process and Lower Columbia Fish Recovery Board (LCFRB) had commented. Manlow stated he was unsure of any updates following the LCFRB comments. Lesko said he would make a note to track this further.

Aquatic Technical Subcommittee Update

Erik Lesko stated he was developing a draft charter for the Aquatic Technical Subcommittee (ATS) that would be similar to the FPS charter. The ATS would discuss and then send to the ACC for approval.

Lesko said the draft Annual Operating Plan had been distributed to the ATS, but comments had not been reviewed. He noted the genetics strategy was near completion, which was being developed by PacifiCorp in conjunction with WDFW and Cramer Fish Sciences. Lesko said he would send the genetics strategy document to the ATS this week or next.

Lesko said that hook-and-line monitoring for steelhead proportion of hatchery-origin spawners abundance had begun and was ongoing. Jeremiah Doyle said that a total of six monitoring trips had been completed, and seven tags had been placed on fish. He mentioned that monitoring would continue until May, and he was hopeful that catch rates increase with changing river levels.

Lesko also mentioned that WDFW was completing a technical review of sampling for determining Coho Salmon abundance, and Kale Bentley was leading the effort.

Chris Karchesky added that there would be upcoming discussion of the 2024 Habitat Preparation Plan for releasing adult Coho into Yale Reservoir and a presentation later this spring on the preliminary Integrated Population Model that is being developed for Coho. Karchesky also included that there is ongoing discussion regarding moving up an additional 5,000 adult Coho this fall as part of the supplementation program. ATS would begin to discuss the timing of Coho Salmon moved upstream, early returns or late returns, because the fish moved upstream would affect population composition. Karchesky stated that the ATS was targeting June as a timeline for final decisions on Coho Salmon transportation this fall. Lesko added that this goal would target ACC approval in July.

Josua Holowatz added that the approved steelhead transitions plan included public outreach about the Chambers Creek program and the transition to the steppingstone program this spring. WDFW produced an article posted on Medium (a WDFW online news outlet) and completed some directed outreach to local steelhead groups. Holowatz thanked PacifiCorp for their help in this effort.

Jonathan Stumpf asked whether WDFW received any feedback on the Medium post. Holowatz said it was generally positive; a local guide and fisheries group were both very excited. They appreciated the transparency of the communication before the plan was initiated.

Bryce Glaser said that the comment function was turned off on the Medium post, but there were 102 clap responses. He added that if there were questions about the article to please reach out to WDFW.

Fish Passage Subcommittee Update

Chris Karchesky said that at the last FPS meeting the Design Team presented updates to the ongoing upstream and downstream facilities. The team was mainly focused on finalized the additional information requests as well as stepping through refining designs from a constructability standpoint. With the design complete, the focus had shifted to how to build the facilities, including drilling plans, bathymetric surveys, and net-line plan details.

Karchesky mentioned that the 2024 fish behavior study was also discussed. The previous studies (2022 – 2023) focused on how fish approach and interact with the current forebay conditions, and the results were useful for refining the design of the downstream facility in Yale Reservoir. The 2024 study plans to focus on gather information on various aspects of the facility's fish channel and how it is configured. The Yale Reservoir facility is planning to have a new design that would be different than the one developed for the Swift FSC. The 2024 Yale Fish Behavior Study Plan along with a draft ACC Decision Request will be sent to the ACC soon for approval during the April meeting.

Bryce Glaser added that there was discussion around the 60% design material request and the 45-day review period. Because there was still further clarification necessary on these topics, he wanted to ensure the discussion continued during the FPS meeting that day. Glaser told the ACC that Todd Olson conveyed there would be two deliveries of materials. All upstream design project materials would be delivered by March 29, and downstream design materials would be delivered April 11, with their own respective 45-day review periods.

Chris Karchesky agreed that discussion would occur at the afternoon meeting and added that the agenda also included discussion on updating the Fish Transport Plans for both upstream and downstream passage scenarios. Glaser said that the Elements of Fish Passage document described two scenarios, a swim-through scenario and selected transport scenario that would be used during the transition to the swim-through scenario. He would like to put together a conceptual framework to start to capture the details of those difference scenarios.

Fish Passage/Operations (Attachment B)

Levi Pienovi said the Merwin trap was taken offline from February 28 through March 3 to fix the concrete void in the pump room previously discussed by the ACC and to perform quarterly maintenance tasks. Everything was back up and running as normal.

Pienovi said winter steelhead collection has picked up, and a steelhead that had been tagged with a passive integrated transponder tag last year and given to WDFW for broodstock was identified in the collector and moved upstream of Swift Dam. In total, the Swift FSC had caught over 20,000 in downstream migrants, which is a record by this time of year since the facility was commission in 2012.

Swift No. 2 Wasteway (Attachment E)

Erik Lesko presented a map of the Swift wasteway, which is an overflow for the Swift power canal. The wasteway is used to move water into the Swift bypass reach and functions as spillway with a plunge pool. Lesko presented a photograph of the wasteway in use on January 29, 2024,

during a recent spill into the wasteway. He noted that a fish survey was completed once wasteway spill was finished, and only one Cutthroat Trout and one Coho Salmon were found.

Bryce Glaser asked how the survey fish were collected. Lesko said an electrofisher was used, and the staff surveyed the dewatered area near the top of the wasteway and the margins of the watered plunge pool. He noted that the wasteway pool was connected to the bypass reach at the time of the survey, and they did not expect to see many fish given the time of year.

Josua Holowatz said the email Lesko had sent to notify the ACC of the spill noted a flow rate 7,000 cfs, and Holowatz was curious how Lesko thought a small Coho Salmon made it into the wasteway with such high flows. Lesko speculated that the coho could have come from Swift Reservoir or as part of the transport of adult coho into Yale through the HPP program. Lesko noted that Swift No. 2 is back online and the wasteway channel is no longer engaged.

Merwin Spill Events

Erik Lesko noted that a ramping deviation occurred during the crepuscular period at the Merwin Dam on February 29. There was a unit trip, breaker No. 2 at the Merwin Dam. When this occurs, the spillway is used to moderate flow levels downstream. The spillway did not engage quickly enough which required the Merwin operator to initiate spill. This delay caused the ramping rate deviation. PacifiCorp investigated the cause and replaced faulty relays responsible for automation delay of the spill gate.

On March 4 the breaker No. 2 tripped again. During this breaker trip, the spillway engaged as designed, but observations of dead kokanee on the bank were made following the spill. All fish appeared to be kokanee. Josua Holowatz added that he received calls from the public about this event along with a video and images from an angler. Holowatz called the hatchery at Merwin Dam and had staff confirm the preliminary identification of kokanee. The mortalities spanned several age classes. Holowatz mentioned that the Speelyai hatchery program had been released previous Friday, so young fish had just entered the system.

Lesko said while there was no official count of kokanee, mortalities were confined to an area directly across from the Merwin boat ramp.

Lesko asked if Holowatz if he recalled seeing kokanee this time of year. Holowatz said he had observed them during fall Chinook surveys in early January on lower river in slow water.

Lesko also mentioned that the Washington State Department of Ecology called and agreed the kokanee mortalities did not appear to be a water quality concern but rather a result of spill at Merwin Dam. Holowatz agreed.

Bryce Glaser added that this is not the first kokanee mortality event, and currently no processes were in place that require quantification of the event. He added he would like to think about how the reporting and communication effort for events like these were handled. Glaser reiterated that WDFW would like to work with PacifiCorp to evaluate the kokanee fishery and how to quantify how many dead fish were from the hatchery.

Lesko added that the spill event that caused the mortalities was relatively small (less than 4000 cfs), but that it took a longer time than usual to come off spill. Lesko said he was open to having further discussions about this topic.

Steve Manlow added that he agreed he would like to see additional dialogue on the topic. He was curious how events like the kokanee mortality event were similar to ESA mortalities and at what point non-ESA listed mortalities would trigger mitigation consideration. He asked whether there should be compensatory mitigation because the fish could still be considered a public resource. Manlow stated he knew this was a gray area, because no formal legal requirements exist, but he would like further discussion on the topic.

Lesko said he was happy to have further conversations. He stated that it is complicated to determine how many fish had been spilled over the years, but the kokanee fishery has remained popular and successful despite the occurrence of many spill events in the past. He reiterated that while this event was unfortunate, PacifiCorp was in compliance with their FERC operating license.

Karchesky asked Holowatz whether WDFW was implementing creel surveys. Holowatz stated that the last survey was complete in 2019, prior to the COVID-19 pandemic fisheries closures. Glaser noted that WDFW would like to start again. He stated that focus had shifted to other important documents, like the Elements of Fish Passage document. Glaser said he would be asking for follow up conversation about this.

Holowatz added that there are things to be learned about relatively low spill volumes where fish were still passed. He wondered how that could inform the Yale spillway net and its capacity to handle spill events out of the Yale Reservoir.

Administrative Updates

Erik Lesko asked whether the ACC members who attend the FPS could also meet in person. Bryce Glaser said that would work best but asked Josua Holowatz to see whether the conference room was available. Holowatz confirmed the room was booked for the entire day. Lesko said that both the FPS and ACC meetings will be in person/hybrid. Chris Karchesky noted that there was a back-to-back meeting last year and based on the delay caused by the in-person meeting; a break for lunch would be helpful so that no members are waiting virtually for FPS meeting caused by the ACC meeting. The schedule was updated accordingly.

Public Comment Opportunity

None present.

Agenda Items for March 14, 2024

- ➤ The Development and ESA coverage for HGMPs
- ➤ Draft Decision Document: Yale Fish Behavior Study: Informing Yale Downstream Fish Passage Design
- > Phil Roni Update
- > Study/Work Product Updates

Adjourn 10:57 a.m.

Next Scheduled Meeting

Treat beneduced freeting
April 11, 2024
Teams Call/In person (WDFW Region 5 Office)
9:30 a.m. to 12:00 p.m.

Meeting Handouts and Attachments

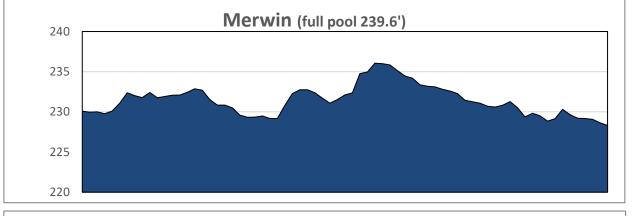
- > Agenda from 3/14/2024
- ➤ Attachment A Flow/Reservoir Conditions (February 2024–March 2024)
- ➤ Attachment B Lewis River Fish Passage Report (February 2024)
- ➤ Attachment C Merwin Adult Trap Collection Report (February 2024)
- ➤ Attachment D Swift FSC Facility Collection Report (February 2024)
- ➤ Attachment E Survey and Repairs Documentation

Reservoir Elevations

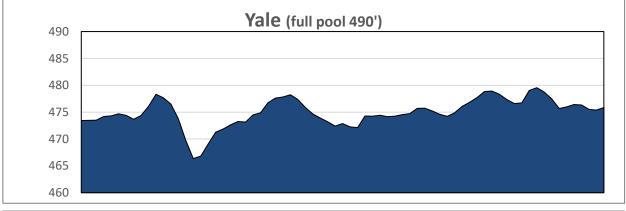
January 1, 2024 – March 11, 2024

Total Draft = -74.2 Δ since Feb 6, 2024 = -6.2 Elevation (ft., msl)

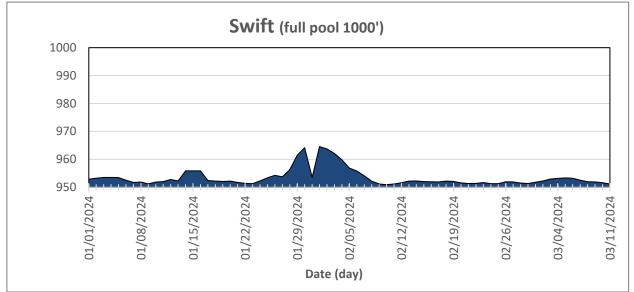
Reservoir



228.3 feet
-11.3 Draft
Δ = -6.7



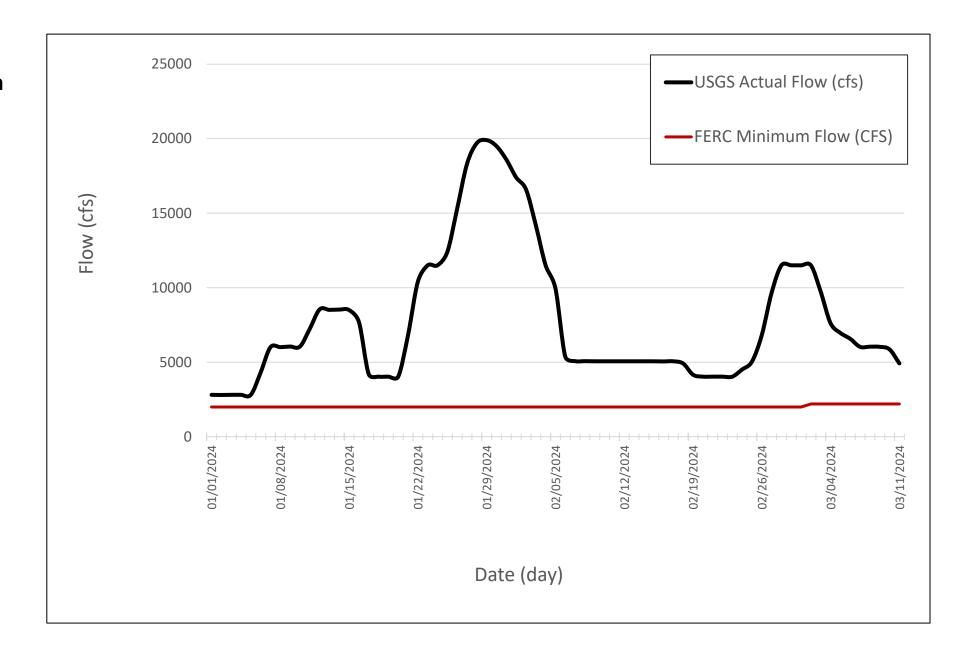
475.9 feet
-14.1 Draft $\Delta = +2.9$



951.2 ft
-48.8 Draft
Δ = -1.8

North Fork Lewis River Stream flow downstream of Merwin Dam

January 1, 2024 – *March 11,2024*



Lewis River Fish Passage Report

February 2024

Merwin Fish Collection Facility and General Operations

During the month of February, a total of 251 fish were collected at the Merwin Upstream Transport and Collection Facility (MUCTF). Winter steelhead were the most prevalent species collected (n= 248), followed by cutthroat trout (n= 2), and Fall Chinook (n= 1). Five (5) BWT winter steelhead and five (5) NOR winter steelhead were given to WDFW to be used for broodstock for the BWT program in February.

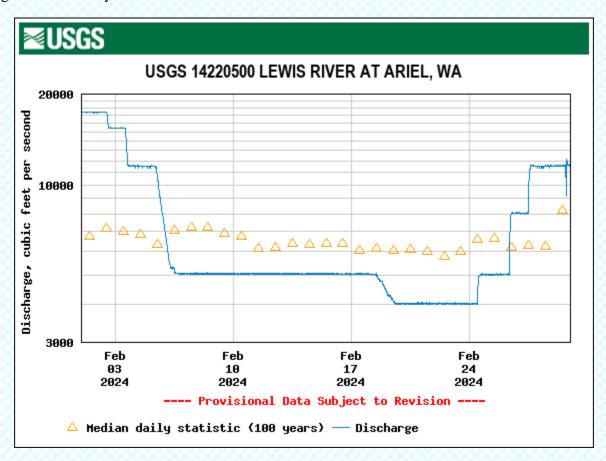


Figure 1. Discharge in cubic feet per second recorded at the USGS Ariel, WA gauge (14220500) located immediately downstream of Merwin Dam.

The MUCTF lift and conveyance system was taken out of service from January 27 through February 4 due to high flows that exceeded the operational limits of the facility. It was taken offline again from February 19 through February 23 to replace the facility's submersible evacuation pumps and to repair the void in the concrete at the top of pool-1 of the fish ladder. Total river flows below Merwin Dam ranged from approximately 4,000 to 17,500 cubic feet per second in February (Figure 1).

One of the fish collected in February had been previously PIT tagged. This fish had been collected and tagged at the MUCTF in March of 2023, was used for broodstock at Merwin Hatchery, and subsequently returned to the Lewis River after being spawned. This reconditioned fish was

recaptured on February 29, 2024 and was transported to upstream of Swift Dam. Tagging details and detection history of PIT tagged fish passing through the Lewis River Fish Passage Facilities are available through Columbia Basin PIT Tag Information System (PTAGIS).

Upstream Transport

A total of 164 adult fish were transported upstream of Swift Dam in February, which is a 4-fold increase over the 40 that were transported in January. Blank wire tag winter steelhead made up the majority of the fish transported upstream (n= 146), followed by NOR winter steelhead (n= 17) and cutthroat trout (n=2). So far in 2024, a total of 159 blank wire tag winter steelhead, 23 NOR winter steelhead, 13 cutthroat trout, and 10 late coho have been transported upstream of Swift Dam.

Floating Surface Collector (FSC)

The Swift Reservoir Floating Surface Collector (FSC) was taken out of service from January 27 through February 2, so that repairs to the facility's Net Transition Structure could be completed. High wind and wave action damaged the structure as well as the new side walls that were installed during the summer of 2023.

A total of 20,030 fish were collected at the Swift FSC this month, 19,991 of which were transport species (Table 1). More fish were collected in February of 2024 than during any other year for the same month since the facility was commissioned in 2013. The majority of the fish collected were juvenile coho (n= 17,059), followed by spring Chinook (n= 2,783), steelhead (n= 77), cutthroat trout (n=72), hatchery rainbow trout (n= 35), and Bull Trout (n= 4). All Bull Trout (FL 565 mm, 530 mm, 105 mm, 190 mm) were returned to Swift Reservoir.

Table 1: Total number of out-migrating juvenile salmonids (by species) collected at the Swift FSC during the month of February since 2013.

	Februa	ry Collection	Totals by Run	Year at the Sv	vift FSC
Run Year	Coho	Chinook	Steelhead	Cutthroat	TOTAL
2013	100	34	1	7	142
2014*	0	0	0	0	0
2015	5,917	554	8	98	6,577
2016	6,600	1,058	45	83	7,786
2017	753	9	1	5	768
2018	429	1,001	27	90	1,547
2019	151	60	2	4	217
2020*	0	0	0	0	0
2021	928	179	36	51	1,194
2022	6,244	434	18	12	6,708

2023	1,061	155	14	6	1,235
2024	17,059	2,783	77	72	19,991

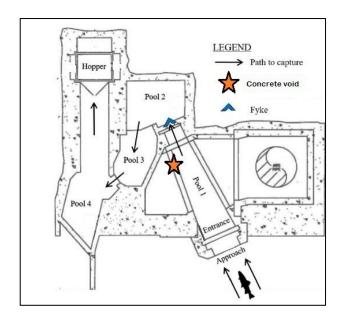
^{*}Swift FSC was not operational.

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 $^{1\} Only\ hatchery\ verses\ wild\ distinctions\ are\ currently\ being\ made.\ All\ hatchery\ fish\ are\ labeled\ as\ "AD-Clip".$ $2\ Total\ counts\ do\ not\ include\ recaptured\ salmon.$

Fish Facility Report Swift Floating Surface Collector February 2024

		Coho			Chinook			Steel	lhead			Cutthroat			Planted	
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2																
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7			925			251	<u> </u>		0			13		0	0	1189
8		803	83		10	147		11	0			1		0	12	1067
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15		357	103		1	109	i !		1		i !		1	0	3	575
16	2	758	93			135	į		2		į	11		0	0	1001
17		533	56		1	54	} }		0		} }			0	1	645
18		384	49		14	101	ļ		0		ļ			0	0	548
19		424	21		8	85	; }		0					0	2	540
20		360	47		6	66	į		0		į	1		0	3	483
21	1	258	26			30	į		0		į	2		0	1	318
22		100	18		1	22	<u> </u>		0		.	1		0	1	143
23		239	52			59			0			1		0	0	351
24		134	28		1	32	<u> </u>		1		<u> </u>			1	0	197
25		69	3			8			0					0	1	81
26		215	12		8	10			0		į	2		0	0	247
27		136	17		3	8			0			2		0	0	166
28		133	27		10	26			0		ļ	2		0	3	201
29	1	95	9		13	14			11					0	1	134
Monthly	48	11791	5220	18	94	2671	0	13	64	0	0	71	1	4	35	20030
Total	94	16795	6536	27	96	4024	13	14	79	0	0	75	1	4	59	27817



Original image of concrete void as viewed from the evacuation pump room – December 22, 2023.



Original image of concrete void as viewed from ladder pool No. 1 - December 22, 2023



completed plate covering as viewed from the evacuation pump room -March 6, 2024







January 29, 2024



Fish Survey 2/8/2024 ~1PM





