



Energizing Life in Our Communities

June 21, 2021

VIA ELECTRONIC FILING

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission (FERC)
888 First Street NE
Washington, DC 20426

**Re: Jackson Hydroelectric Project, FERC No. 2157
Fish Habitat Enhancement Plan 2020 Annual Report
License Appendix G A-LA 12**

Dear Secretary Bose:

Enclosed is Public Utility District No. 1 of Snohomish County's Fish Habitat Enhancement Plan 2020 Annual Report pursuant to the Jackson Hydroelectric Project's License Appendix G A-LA12. The draft report was provided to the Aquatic Resource Committee for review and comment; no comments were received. Consultation documentation is included in the report's Appendix 2.

If you have any questions on the Fish Habitat Enhancement Plan 2020 Annual Report, please contact Dawn Presler, Sr. Environmental Coordinator, at (425) 783-1709 or DJPresler@snopud.com.

Sincerely,

/s/ Keith Binkley

Keith Binkley
Manager, Natural Resources
(425) 783-1769
KMBinkley@snopud.com

Enclosed: Fish Habitat Enhancement Plan 2020 Annual Report

cc: Aquatic Resource Committee

Henry M. Jackson Hydroelectric Project (FERC No. 2157)



Fish Habitat Enhancement Plan: 2020 Annual Report (A-LA 12)



Everett, WA

June 2021

Final – This document has been prepared by the District. It has been peer-reviewed by the District for accuracy and formatting based on information known at the time of its preparation and with that understanding is considered complete by the District. The document may be cited as:

Public Utility District No. 1 of Snohomish County (District). 2021. Fish Habitat Enhancement Plan: 2020 Annual Report (A-LA 12) for the Henry M. Jackson Hydroelectric Project, FERC No. 2157. June 2021.

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1.0 INTRODUCTION

Public Utility District No. 1 of Snohomish County (the District) received a license on September 2, 2011 (License), from the Federal Energy Regulatory Commission (FERC) for the Henry M. Jackson Hydroelectric Project (Project). License Ordering Paragraphs D (Washington Department of Ecology 401 Water Quality Certification conditions) and E (U.S. Forest Service section 4(e) conditions) require the District to implement Aquatic License Article 12: Fish Habitat Enhancement Plan (A-LA 12) as detailed in License Appendix G. The District filed the Fish Habitat Enhancement Plan (FHE Plan) with the FERC on November 19, 2010.

As indicated in the FHE Plan, funded projects will be designed to provide additional Project-related enhancements to aquatic resources and hydrologic processes focused in the Sultan River basin; thereby, providing considerable benefits to aquatic habitat and anadromous and resident fish populations throughout the License term. These additional habitat enhancement projects, working in conjunction with other protection, mitigation and enhancement measures, such as improved side channel connectivity, increased instream flows, and implementation of fish passage at the Diversion Dam, will likely substantially increase the quantity and quality of aquatic habitat and performance of anadromous and resident fish populations in the lower Sultan River. Establishment of the ongoing FHE Plan and Habitat Enhancement Account (HEA) will also allow for adaptive management as conditions in the basin change. The mitigation provided through the fund will best be able to address long-term habitat enhancement and restoration needs by allowing flexibility to ensure that projects are developed and implemented during the License term.

Pursuant to Section 6.2 of the FHE Plan, the District is to prepare a report by June 30 of each year detailing activities that occurred the previous year and activities planned for the present year as they relate to implementation of FHE Plan-approved projects. This FHE Plan Annual Report, covering activities conducted in 2020 and planned for 2021. Appendix 1 contains photos of the large log placement in Reaches 2 and 3, a project funded in 2020.

This draft report was provided to the Aquatic Resources Committee (ARC) for a 30-day review and comment period; no comments were received. The ARC consists of the City of Everett, City of Sultan, Snohomish County, Washington Department of Ecology, Washington Department of Fish and Wildlife (WDFW), Tulalip Tribes, U.S. Forest Service, National Marine Fisheries Service, U.S. Fish and Wildlife Service, and American Whitewater. Documentation of consultation with the ARC regarding the draft report will be included in Appendix 2.

2.0 ACTIVITIES FOR YEAR 2020

2.1 Project Selection

The ARC approved in February 2020 the project to add wood jams in Reaches 2 and 3 (see 2.2.3).

2.2 Project Implementation

2.2.1 Diversion Dam Fish Counting Sonar Device

Staff monitored and collected data from the ARIS 3000 underwater sonar device during 2020.

2.2.2 Prioritization of Habitat Projects in Lower River

The purpose of this project was to evaluate the feasibility of possible future salmon habitat restoration actions on the Sultan River near Sultan, Washington, and to prioritize them for consideration by the ARC. Herrera Environmental conducted some additional analysis and attended meetings regarding the prioritization list.

2.2.3 Large Woody Debris in Reaches 2 & 3

The purpose of this project was to add large woody debris into Reaches 2 and 3 of the Sultan River where they could provide direct habitat value, redirect flow, retain wood and sediment, and reduce the potential for redd scour. Activities for 2020 included location identification, permitting, and design, with final placement occurring in October 2020 (see Appendix 1 for photos).

2.3 Project Monitoring

No additional monitoring of FHE Plan habitat projects was conducted beyond that already described above.

3.0 ACTIVITIES FOR YEAR 2021

3.1 Project Selection

No new projects for funding in 2021 were proposed at the October 2020 ARC meeting.

3.2 Project Implementation

3.2.1 Diversion Dam Fish Counting Sonar Device

ARIS monitoring will occur in the spring and fall of 2021, with staff biologists downloading and cataloging the data.

4.0 FUND BALANCE

As of December 31, 2020, the fund's account balance was \$2,082,952.72. However, this balance does not reflect amounts not yet spent towards approved projects and reserves for potential slides. The balance of unallocated funds for use on future projects is approximately \$1.3 million, as follows:

Fund Start	\$ 2,500,000.00
Interest to-date (12/31/20)	<u>+\$ 179,844.77</u>
Subtotal	\$ 2,679,844.77
Confluence property acquisition	- \$ 4,861.38 (closed)
Lower Skykomish River restoration	- \$ 157,955.98 (closed)
Riparian restoration Sultan River	- \$ 219,491.25 (closed)
Riparian restoration Sultan River (2-yr extension)	-\$ 0 (closed)
Habitat Projects Prioritization	-\$ 48,493.80 (closed*)
LWD in Reaches 2 & 3	-\$ 100,000.00 (closed)
Future slides reserve	- \$ 500,000.00 (allocated)
Hochfeld property acquisition	- \$ 173,300.00 (allocated)
Sonar Device (ARIS)	<u>-\$ 150,000.00 (allocated)</u>
Total	\$1,325,742.36

* \$515.35 of this total amount was spent in January 2021; the project is now closed.

Starting the tenth anniversary after issuance of the License (Year 11) and annually thereafter for the term of the License, the District will deposit \$200,000 (based on 2011 dollars) into the fund account per Section 5.1 of the FHE Plan. The first \$200,000 payment will be in September 2021.

5.0 FHE PLAN RECOMMENDATIONS

No recommendations for changes to the FHE Plan are being made at this time.

Appendix 1

Photos of Large Log Placement in Reaches 2 and 3

Sultan River R2 and R3: Large Woody Debris Placement

October 3, 2020

Wood

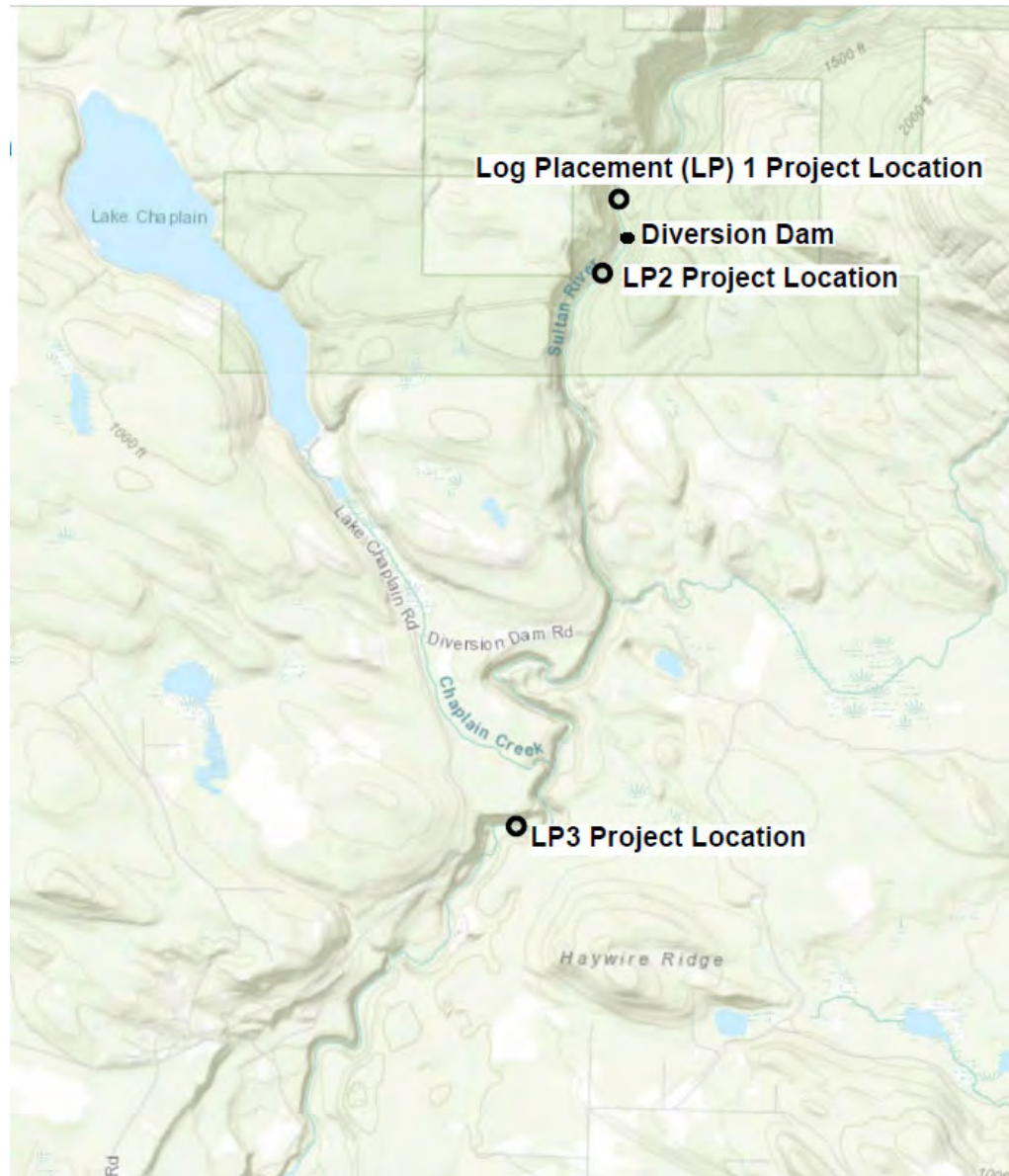
- ▶ 34 pieces with root wads attached
- ▶ Locally sourced from Diversion Dam Road



Helicopter



Locations



Configurations

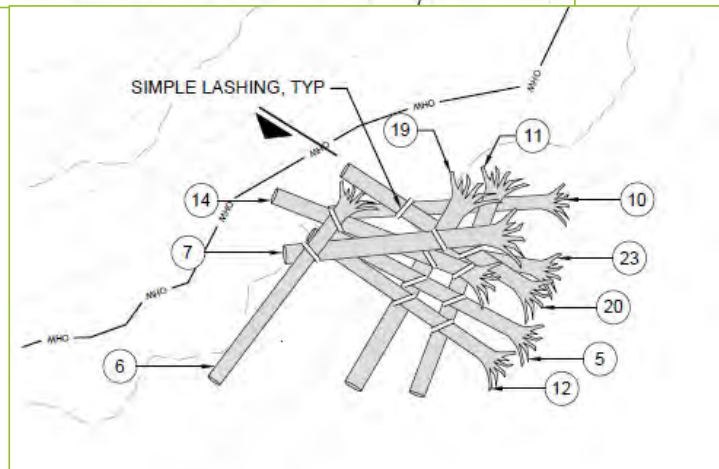
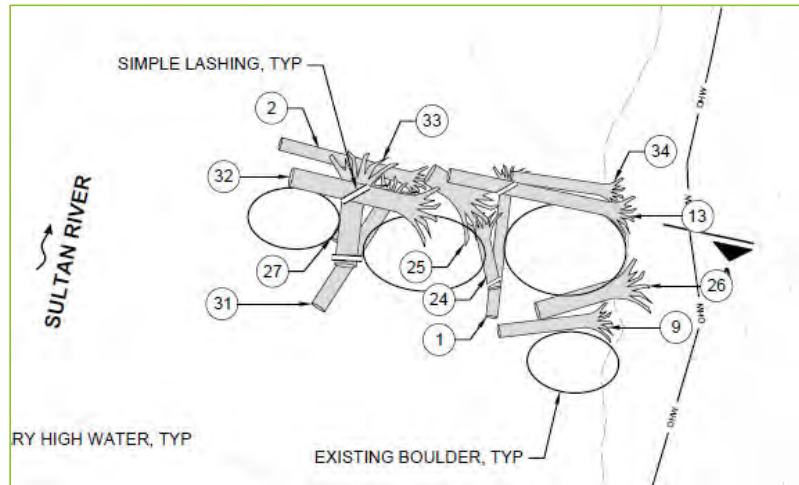
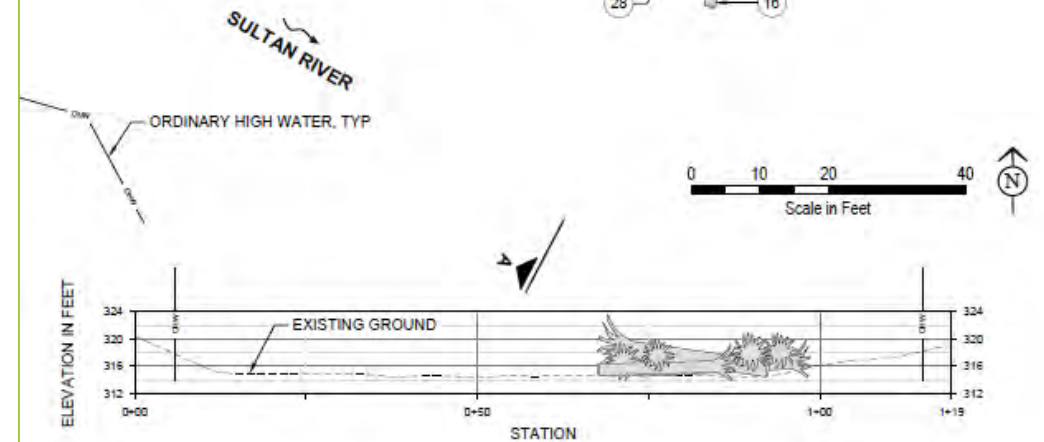
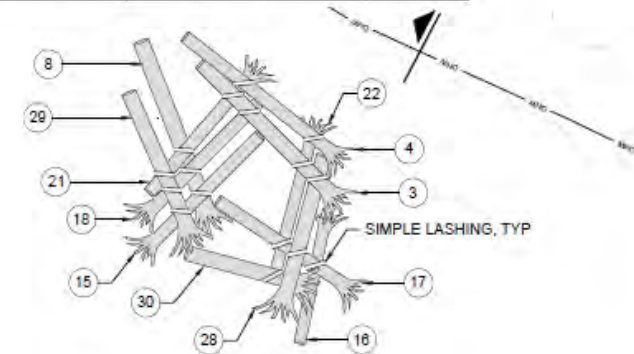


TABLE: LOG ID LIST

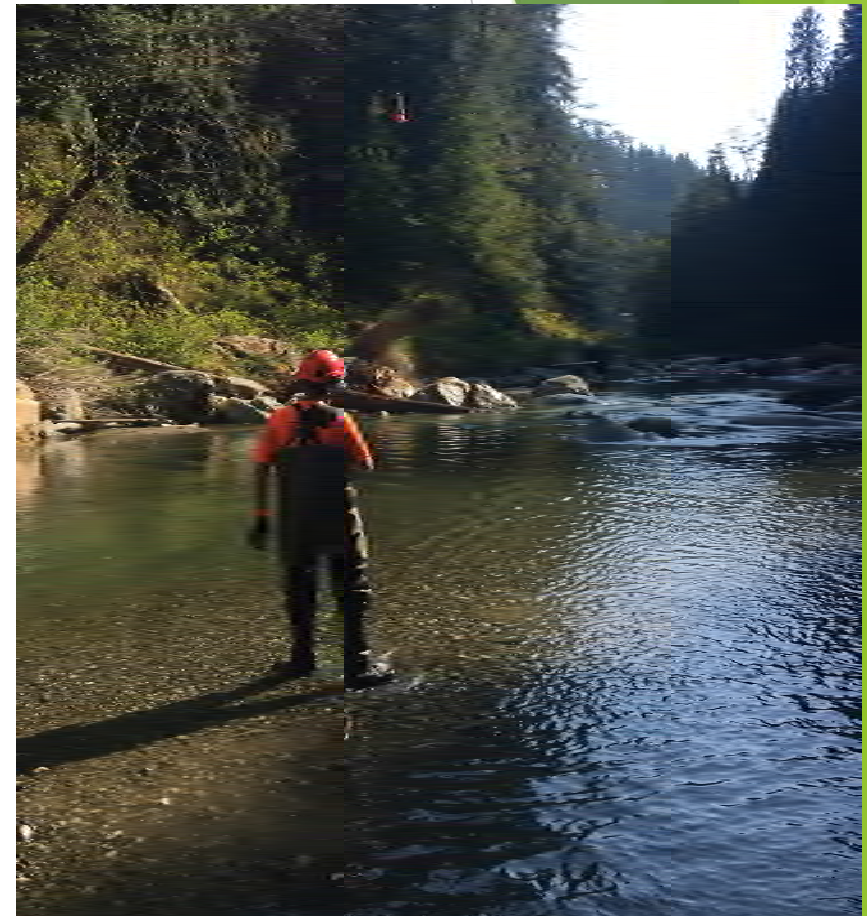
Log #	Species	Dia. @ Base (in.)	Dia. @ Top (in.)	Length (ft)	Weight (lbs)
(3)	DF	28	23.3	28	5239.3
(4)	DF	24.5	18.3	29	3793.0
(8)	DF	33.3	23	30	6817.5
(15)	DF	24	19.1	26	3439.3
(16)	DF	21.5	18.5	21	2386.8
(17)	DF	23.5	18.6	26	3282.2
(18)	DF	23.3	18.1	27	3298.5
(21)	DF	23	22	24	3448.5
(22)	DF	21	20.2	25	3009.3
(28)	DF	30	23	25	5008.2
(29)	DF	40	29	25	8510.8
(30)	DF	28	22	22	3918.4



Airlifting Video



R3 - Log Placement Site #1



R2 - Log Placement Site #2



R2 - Log Placement Site #3



Sultan River Aerial Log Placements

Permittee: Snohomish County Public Utility District

Permit Number: 2020-4-679+01

Log Placement (LP) Locations:

Identifying Name	River Mile (RM)	River Reach (operational)	Bank	Number of Logs
LP-3	RM 5.5	Lower Reach 2	Right	12
LP-2	RM 9.4	Upper Reach 2	Right	10
LP-1	RM 10.0	Reach 3	Left	12

LP-3

Pre Installation

Project Start Date: October 3, 2020



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0000







LP-3

Post Installation

Project Start Date: October 3, 2020

00000001
00000002
00000003
00000004



00000001
00000001
00000001
00000001



00000001
00000001
00000001
00000001





LP-2

Pre Installation

Project Start Date: October 3, 2020

00000001
00000001
00000001
00000001











LP-2

Post Installation

Project Start Date: October 3, 2020

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00000003
00000004



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LP-1

Pre Installation

Project Start Date: October 3, 2020

















LP-1

Post Installation

Project Start Date: October 3, 2020









Appendix 2

Consultation Documentation Regarding Draft Report

Presler, Dawn

From: Presler, Dawn
Sent: Tuesday, May 18, 2021 11:40 AM
To: Anne Savery; Brock Applegate; Janet Curran; Jeff Garnett; Jen Ford; Jim Pacheco; Mike Rustay; Nate Morgan; snasr@everettwa.gov; Tom O'Keefe
Cc: Andrew McDonnell; Keith Binkley; Tim Romanski
Subject: JHP (FERC No. 2157) - draft FHE Annual Rpt for your 30-day review and comment
Attachments: DRAFT 2020 FHEP Annual Report_reduced.pdf

Dear ARC,

Attached is the very brief Fish Habitat Enhancement Plan Draft 2020 Annual Report for your 30-day review and comment. Please provide any comments, if any, back to me by June 18. As you can see there is just over \$1.3M of unallocated funds for us to spend, with the additional annual \$200K starting this September!

Cheers,

Dawn Presler

Sr. Environmental Coordinator
Generation – Natural Resources
Snohomish County PUD No. 1
Everett, WA

(425) 783-1709 (work)