

Lostine Wetland and Side Channel Complex Project

Date: 3/3/21 – 3/9/21

Observer(s): Montana Pagano & Katie Frenyea

Contracting Officer(s): Katie Frenyea

**Nez Perce Tribe Fisheries – Watershed Division
DAILY OBSERVATION REPORT**

SITE(S): Lostine Wetland/Wolfe Wetland

LOCATION: Lostine River, Wallowa, Oregon

CONTRACT NO: BPA 1992-026-01

CONTRACTOR: Northwest Watershed Restoration (NWWR)

CONTRACTOR SUPERINTENDENT: Tom Moore

EQUIPMENT: 325 F CAT Excavator (1); 279D CAT Skid Steer (2); CD150M Dri Prime Godwin 6” Pump (1)

TEMPERATURE: 8/1/22: 90° F; 8/2/22: 90° F; 8/3/22: 94° F; 8/4/22: 85° F; 8/5/22: 79° F

WEATHER: 8/1/22 – 8/5/22: mostly sunny; 10/27/22:

SHIFT HOURS (NPT Staff): 8/1/22: 0700 - 1500; 8/2/22: 0700 - 1900; 8/3/22: 0750 - 1900; 8/4/22: 0715 - 1900; 8/5/22: 0740 - 1600

DESCRIPTION OF WORK AS PER-BID ITEM:

- 1 Mobilization and Demobilization
- 2 Erosion and Sediment Control
- 3 Environmental Protections
- 4 Clearing and Grubbing
- 5 General Excavation (Pilot Channel 1)
- 6 General Excavation (Pilot Channel 2)
- 7 General Excavation (Alcove 1)
- 8 Temporary Stream Diversion
- 9 Large Woody Material - Type A (Large Apex Jam)
- 10 Large Woody Material - Type B (Small Apex Jam)
- 11 Large Woody Material - Type C (Vertical Post Array)

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- 12 Large Woody Material - Type E (Habitat Wood)
- 13 Permanent Seeding, Fertilizing and Mulching
- 14 Place Excavated Material
- 15 Planting
- 16 Construction Staking

7/28/22 – 7/31/22 – Equipment and material staging by contractor. Trees/large wood was inspected by NPT project staff outside of Elgin, OR where trees were sourced on 6/9/22.

8/1/22 – staff on site – NPT: Katie Frenyea, Montana Pagano; GeoEngineers: Jason Scott; NWWR: Tom Moore, Chuck Avery, Grant, Daniel

Contractor not able to find hub as data in “northing and easting”, survey equipment cannot locate. Hub found late afternoon with the assistance of Jason with Geo and crew began to survey in to begin construction at the Pilot Channel 1 (PC1) Outlet; Isolation at structure Large Apex Jam (A-1) completed and removed isolation. Installed Vertical Post Arrays (VPA) C2, C3, C5, C23 & C24.

NPT harvested ~60 willow cuttings for installation in large wood structures by contractor.

Relevant discussions – access to apex structures, adjustment of structure placement due to naturally occurring habitat features; vibratory plate for structures not on site, but could be obtained. JS works with TM, etc. to discuss how to build without one.; Willow cuttings and quantities around each structure.; KF, JS, TM walked site and flagged structures, inlets, outlets, access to assist contractor in lieu of having project surveyed in; crossings were discussed regarding how to build 2 large apex structures (A2 & A3) and any associated tracking and isolation.

8/2/2022 – staff on site – NPT: Katie Frenyea, Montana Pagano, Lydell Mitchell - intern; GeoEngineers: Jason Scott, Alex Morton; NWWR: Tom Moore, Chuck Avery, Grant, Daniel

Conducted fish salvage at structure A-1; Constructed Small Apex Jam (B8) in PC1 Outlet – used 6’ pump for BMP/aid in dewatering; Constructed A1. In full isolation, using large super sacks of alluvium and plastic sheeting. No turbidity seepage was observed.

Moved up river and began installing piles (4 of 6) in A2 in gravel bar.

8/3/2022 – staff on site – NPT: Montana Pagano; GeoEngineers: Alex Morton; NWWR: Tom Moore, Chuck Avery, Grant, Daniel

Contractor finished installing A2 & A3 in gravel bar.

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Completed Alcove 1 excavation and installation of B9, in alcove inlet. Began installing piles for B2 in alcove outlet.

Placed isolation (super sacks and plastic sheeting) in preparation for excavation of PC2 Inlet.

8/4/2022 – staff on site – NPT: Montana Pagano, Cameron Albee, Neal Espinosa, Lydell Mitchell; GeoEngineers: Alex Morton; NWWR: Tom Moore, Chuck Avery, Grant, Daniel

NPT staff conducted second fish salvage in PC2 Inlet isolation area and harvested 125 willow cuttings for contractor installation in large wood structures.

Contractor finished installation of B2 and VPAs (C22, C27, C28 & C29) in Alcove 1.

Alex and Jason with GeoEngineers, along with the project sponsor's consent, deleted PC3 Inlet due to extent of disturbance to existing mature vegetation and lack of apparent benefit (e.g., flow plath connectivity) – determined to not be worth disturbance. PC3 would have had minimal excavation and a net 0 removal/fill quantity.

Dewatered PC2 Inlet isolation area. Installed B1 and installed VPA C25 as field fit, utilizing only 2 piles vs. 4 to avoid excessive damming in PC2 Inlet. Placed Habitat Wood (E6 & E7). Removed isolation at PC2.

Per the engineer's approval, NPT staff and contractor scouted and flagged field fit locations for remaining VPAs to minimize disturbance to mature vegetation and wetland/swales.

The contractor installed VPAs (C9-C12), then seeded and mulched the alcove and A2 & A3 adjacent ground. Saw cut top off B9 piles in Alcove 1 Inlet to lower profile, per the engineer.

8/5/2022 – staff on site – NPT: Montana Pagano; NWWR: Tom Moore, Chuck Avery, Grant, Daniel

Contractor graded PC1 Inlet and placed Habitat Wood (E1-E4), 2 whole trees with rootwads, and 2 whole trees w/o rootwads.

Contractor installed VPAs (C1, C4, C6, C7 & C8).

Contractor placed additional whole tree w/ rootwad between C4 & C6. Placed whole tree w/ rootwad, additional vertical posts, and racking in VPA C7. Placed 2 additional whole trees between VPAs in PC1 Outlet to provide added cover. Installed all remaining willow cuttings in large wood structures and Alcove 1.

Contractor began demobilization: equipment removal, straw wattle staging, finished remaining seeding and mulching of access roads, and various other punch list items.

10/26/22 – NPT staff harvested 525 willow stakes and staged them in PC1 Outlet for the contractor.

10/27/22 – Contractor returned to site and installed willow cuttings (cutting many of them in half to equal ~1,000 stakes) into alcove banks, PC1 Outlet banks, and in large wood structures. The contractor crew also planted > 200 10 C.I. slough sedge wetland plugs within the alcove and PC1 Outlet. The crew

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also reseeded the remainder of the upland and riparian seed and mulch, which completed their contract obligations.



Figure 1. Installation of Large Apex Jam A1 adjacent to Pilot Channel 1 Inlet, taken on 8/2/22.

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Figure 2. Installation of Large Apex Jam A2, taken on 8/3/22.

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Figure 3. Completed Alcove 1 including two Small Apex Jams and four Vertical Post Arrays, taken 8/4/22.

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Figure 4. Finishing up grading behind completed Small Apex Jam in Pilot Channel Inlet 2, taken 8/4/22.

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Figure 5. Completed Vertical Post Array in floodplain swale, taken 8/4/22.

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Figure 7. In-progress willow stake and wetland plug planting, taken 10/27/22.