Attachment 1. Construction Activities Conducted	
Date	Activity Description
- 07/10/2020	Equipment mobilized to site.
07/15/2020	Center bedload berm in Puyallup river upstream of intake created via excavator.
07/17/2020	Center berm extended; right bank dewatered. Wooden spillway crest removed. Plywood laid on top of wooden apron.
07/18/2020	Center bedload berm extended; conexes placed along center berm and filled with bedload material, right bank dewatered. Began placement of HDPE liner. Excess water routed through fish ladder. Equipment used includes two excavators, a telehandler forklift, and lattice-boom crane.
07/20/2020	River completely diverted to left bank; pumps assist with dewatering
07/21/2020	Work on bypass channel continues. Astroturf and HDPE placed along channel by hand and forklift.
07/22-24/2020	Cofferdam work continues.
07/27/2020	Cofferdam bypass channel completed
07/28/2020	Water diverted into the right bank bypass channel, flume dewatered
07/30/2020	Begin removal of eco blocks and wood apron on left bank. Four excavators, a haul truck, and a crane doing work below OHWM.
07/31/2020	Retention and bolstering of conexes, hauling away wood apron debris via haul truck
08/01/2020	Removal of wood apron debris continues, retention of construction runoff. Removal of I-beams and plates from across flume intake.
08/03/2020	Removal of bedload slurry and wood debris from dewatered work area continues.
08/05/2020	Grading and bedload removal from dewatered worksite. Manhole placement in de-watered work area. Stop Work Order issued by Pierce County.
08/06/2020	Grading and bedload slurry materials removal. Manhole placement continues. Groundwater collecting pool upland of the intake partially filled in. Drainage/settling ditch constructed in dry riverbed area downstream of construction area.
08/07/2020	Construction halted. Mobilization to Forebay.
08/08/2020	Work site maintenance from road with excavator removing bedload slurry to maintain work site drainage. No equipment below OHWM.
08/09/2020	Sand and apron wood placed in lower area of de-watered work zone.
08/10/2020	Construction work is halted at intake. Forebay sediment removal begins.
09/23/2020	Construction recommenced @ 14:00. Cofferdam stabilized, pumps replaced at site per WQMP.
09/24/2020	Construction site de-watered. Preparation for excavation. Work halted from 10:00 – 10:45 to allow turbidity in conveyance channel to decrease
09/25/2020	Excavation continued on concrete footing area. Sheetpile driving commences. Excavator with vibratory compactor and crane utilized.

	Pumps remain active for site dewatering. Fish oil spill of approx. 1-2 gallons promptly addressed.
09/26/2020	Sheet pile driving continues.
09/27/2020	Excavation and removal of material continues. Sheet pile driving and dewatering continues. A pool formed upstream of the worksite with rain event on 9/26. Fish recovery undertaken. No fish observed; pool cleared.
09/28/2020	Excavation continues. Concrete pour prep continues.
09/29/2020	Excavation continues. Rebar sections for concrete footing staged and put into place. Concrete prep continues.
09/30/2020	Excavator placing rock upstream of cofferdam next to fish ladder outlet. Continued installing rebar and excavating for footing. Crew noticed large leak into worksite, probable cause shifting of gravel upstream as excavator entered and exited river along with gravel excavated near work site. .;. Delay of approx. 4-6 hours to address leak and dewater. Concrete plant readying.
10/01/2020	Rebar tying finished. Concrete pouring begins
10/02/2020	Concrete pouring of the cutoff wall for footing continued, regraded crane platform.
10/03/2020	Concrete pouring of cutoff wall continues. Rocks placed at outflow of fish ladder to attempt to fix passage issues.
10/04/2020	Pouring concrete center abutment.
10/05/2020	Layout and installation of wood wall forms for concrete wall. Fish ladder revisited and passage remedied with creation of two rock step pools constructed by excavator.
10/06/2020	Access road maintenance, wall rebar installation. Dewatering with pumps continues.
10/07/2020	Rebar and form installation for center abutment. Access road maintenance. Fill excavation and removal from downstream side of existing wall.
10/08/2020	Install forms, rebar, and embeds for bladder. Concrete plant and pour prep. Backfilling material around concrete footing.
10/09/2020	Finished form embedding. Concrete poured into center abutment.
10/10/2020	Finished pour in center abutment. Crews removed equipment from in-river work area.
10/11/2020	No in-river work. Concrete curing.
10/12/2020	Concrete forms removed from abutment. Site cleaned and equipment removed.
10/13/2020	No in-river work. Weather postponement.
10/14/2020	Excavation for river re-diversion and cofferdam removal begins. Forms and rebar prepped for pouring concrete tie-in platform between new wall and existing spillway.
10/15/2020	Pouring concrete for wood apron tie-in. Pumping/dewatering of construction area. Excavation for downstream road access.
10/16/2020	Woodwork between existing spillway and abutment wall. Concrete pour prep.

10/17/2020	Concrete pouring to join spillway to abutment. Upland oil spill addressed promptly.
10/18/2020	Sheetpile, and rock sorting and installation for temporary spillway.
10/19/2020	Spillway sheetpiling installation continues. Capping tie-in between abutment and spillway. Hauling rock for spillway fill begins.
10/20/2020	Center abutment cleanup. Sheetpile welding continues. Rock hauling and placement continues.
10/21/2020	Sheetpile welding finished. Large rock and smaller riprap installed on downstream side of sheetpile spillway.
10/22/2020	Rock placed on upstream side of sheetpile spillway. Abutment wall holes grouted.
10/23/2020	Left bank channel filled in and graded. All pumps removed from below OHWM
10/24/2020	Graded upstream dry riverbed and prepped upstream for final diversion of river to left bank
10/25/2020	Excavators diverted river to left bank. Cofferdam berm built up. Right bank dewatered, right bank and fish ladder cleared of fish. Water flow through ladder suspended.
10/26/2020	Field turf, felt fabric, and HDPE liner removal from dewatered right bank begins. Liner partially removed from fish ladder. Water flow through ladder suspended.
10/27/2020	Turf, fabric, and liner removal from right bank continues. Foreign material removed by hand, via industrial vacuum, and via heavy equipment. Water flow through ladder suspended.
10/28/2020	All foreign material in riverbed removed. Wooden spillway crest reinstalled. Conex containers emptied and removed from river. Bedload and berms upstream of spillway regraded. Lower entrance to fish ladder re-rocked and graded. Fish ladder flow restored. River grade and flow restored.
10/29/2020 -	Equipment demobilization and winterization.