

WASHINGTON STATE



Joint Aquatic Resources Permit Application (JARPA) Form^{1,2} [help]

USE BLACK OR BLUE INK TO ENTER ANSWERS IN THE WHITE SPACES BELOW.

A	GENCY U	ISE ONLY		
eived:				
eferenc	ce#:			
eel #(s):				
ei #(s):				
	eived: referenc		reference #:	eived: reference #:

Part 1-Project Identification

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [help]	
Port of Kalama T-Barge Dock	

Part 2-Applicant

The person and/or organization responsible for the project. [help]

2a. Name (Last, Firs	t, Middle)		
Reeder, Tabitha			
2b. Organization (I	f applicable)		
Port of Kalama	3		
2c. Mailing Address	S (Street or PO Box)		
110 West Marine D)rive		
2d. City, State, Zip			
Kalama, WA 9862	5		
2e. Phone (1)	2f. Phone (2)	2g. Fax	2h. E-mail
(360) 673-2325			treeder@portofkalama.com

For other help, contact the Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.

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¹Additional forms may be required for the following permits:

If your project may qualify for Department of the Army authorization through a Regional General Permit (RGP), contact the U.S. Army Corps of Engineers for application information (206) 764-3495.

If your project might affect species listed under the Endangered Species Act, you will need to fill out a Specific Project Information Form (SPIF) or prepare a Biological Evaluation. Forms can be found at http://www.nws.usace.army.mil/Missions/CivilWorks/Regulatory/PermitGuidebook/EndangeredSpecies.aspx.

Not all cities and counties accept the JARPA for their local Shoreline permits. If you need a Shoreline permit, contact the appropriate city or county government to make sure they accept the JARPA.

²To access an online JARPA form with [help] screens, go to http://www.epermitting.wa.gov/site/alias resourcecenter/jarpa jarpa form/9984/jarpa form.aspx.

Part 3-Authorized Agent or Contact

Person authorized to represent the applicant about the project. (Note: Authorized agent(s) must sign 11b of this application.) [help]

3a. Name (Last, First, M	iddle)		
White, Nicole			
3b. Organization (If ap	plicable)		
PND Engineers, Inc.			
3c. Mailing Address (S	Street or PO Box)		
1736 Fourth Avenue S	S, Suite A,		
3d. City, State, Zip			
Seattle, WA 98134			
3e. Phone (1)	3f. Phone (2)	3g. Fax	3h. E-mail
(360) 624-1387		(360) 624-1388	NWhite@PNDEngineers.com
☐ There are multiple ueach additional pro☐ Your project is on ☐ the DNR at (360) 9	nce activities on existing upland property owners. perty owner. Department of Natural Resolution to determine actic Use Authorization.	Complete the section esources (DNR)-mana	ements. (Skip to Part 5.) below and fill out <u>JARPA Attachment A</u> for aged aquatic lands. If you don't know, contact If yes, complete <u>JARPA Attachment E</u> to
			akset 1,70, de 1 m. (10 o. 1 m. st. lan at 1,90 de 10 . 1 m. (20 de 10 o. 1 de 10 o. 1 de 10 de 10 de 10 de 10
4b. Organization (If app	plicable)		
Port of Kalama		-	
4c. Mailing Address (S	street or PO Box)		
110 West Marine Drive	9		
4d. City, State, Zip			
Kalama, WA 98625			
4e. Phone (1)	4f. Phone (2)	4g. Fax	4h. E-mail
(360) 673-2325			

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Part 5-Project Location(s)

	ect locations (e.g. linear pr additional project location	ojects). Complete the section.	on below and use <u>JARPA</u>
5a. Indicate the type of ov	wnership of the property. (Check all that apply.) [help]	
☐ Tribal	ounty, city, special districts like s Resources (DNR) – mana	chools, ports, etc.) ged aquatic lands (Complet	re <u>JARPA Attachment E</u>)
5b. Street Address (Canno	ot be a PO Box. If there is no add	dress, provide other location inform	nation in 5p.) [help]
Directly across from 380 \	West Marine Drive		
5c. City, State, Zip (If the p	roject is not in a city or town, pro	vide the name of the nearest city	or town.) [help]
Kalama, WA 98625			
5d. County [help]			
Cowlitz			¥
5e. Provide the section, to	ownship, and range for the	project location. [help]	
1/4 Section	Section	Township	Range
SW	17	6 North	1 West, W.M.
• Example: 47.03922 N	nd longitude of the project I lat. / -122.89142 W long. (Use o		
46.0097 N. / -122.8484 W			
	mber(s) for the project loca ssor's office can provide this info		
41071			
5h. Contact information for	or all adjoining property ow	ners. (If you need more space, u	use <u>JARPA Attachment C</u> .) [help]
Name	N	lailing Address	Tax Parcel # (if known)
DNR Aquatic Lands			
	adjacent to the project loca	ation. [help]	
None.			
5j. List all waterbodies (of	her than wetlands) on or a	djacent to the project locati	on. [help]
Columbia River			

Identifying information about the property or properties where the project will occur. [help]

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5k. Is any part of the project area within a 100-year floodplain? [help]
⊠ Yes □ No □ Don't know
51. Briefly describe the vegetation and habitat conditions on the property. [help]
The riverbank on the project site is at a 1:1 slope or steeper with riprap 2 to 3 feet in diameter. There are scattered California indigo trees growing along the bank between the riprap. This species is considered a non-native species that is common along the riverbanks in the lower Columbia River.
5m. Describe how the property is currently used. [help]
The terrestrial portion of the project area includes the 0.03-acre parcel that is currently not in use. This parcel is currently above the 100-year floodplain and is covered with compacted gravel.
5n. Describe how the adjacent properties are currently used. [help]
The project site is on the east bank of the Columbia River in the central portion of the Port of Kalama and adjacent to the marina. East of the project site are a port access road and internal railroad tracks, Interstate 5, the busiest railway line on the west coast, and the City of Kalama. The project area and surrounding properties are zoned for heavy industrial activities. Nearby industries include a lumber mill with log storage yards, a chemical manufacturer, and warehouses.
5o. Describe the structures (above and below ground) on the property, including their purpose(s) and current condition. [help]
There are currently no structures on the property.
5p. Provide driving directions from the closest highway to the project location, and attach a map. [help]
From Interstate 5, take Exit 30 and travel west on Oak Street. Take the first right and travel in a circle past the gas station. This becomes Hendrickson Drive. Continue south for approximately one mile. Just past the lumber yard and at the north end of the marina, pull off on the right into the gravel parking lot in front of the pedestrian walkway along the marina.

Part 6-Project Description

6a. Briefly summarize the overall project. You can provide more detail in 6b. [help]

The T-Barge Dock Project proposed at the Port of Kalama is intended to provide berthing and cargo loading and unloading for three to five commercial boats in the range of 40 to 65 feet long. A short pier and gangway will provide access to the dock for forklifts and crews.

After project construction, the Port will lease the dock to the local commercial company that delivers ship stores and transports crew members. Ship stores include inventory carried on-board a ship to meet its daily requirements, such as food, water, general supplies, medical supplies, safety supplies, spare parts, etc. Pedestrians and forklifts will use the pier and gangway for crew access and to safely and efficiently move ship supplies between the land and the moored vessels.

There will be no additional barge or ship traffic produced as a result of this project. This project will reduce fuel consumption and will reduce river miles travelled by the delivery boats.

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6b. Describe the purpose of the project and why you want or need to perform it. [help]

The Port of Kalama is installing a dock to support water-dependent commerce. Currently, a local commercial company serves the shipping industry by delivering ship stores and transporting crew members with small vessels between land and the ships. The small vessels are temporarily moored at the Port of Kalama marina; however, there are not enough slips, so they cannot fully operate their business. Additionally, the Port has determined that their marina will serve recreational, not commercial uses. For these reasons, the Port proposes to provide separate mooring facilities.

Most shipments come from trucks delivering cargo from Seattle to Portland or Astoria and then they are delivered to ships by boat from Portland or Astoria to the ship's location somewhere between Portland and Astoria (102 river miles apart). Boats sometimes pick up cargo in Portland and have to deliver it to Astoria, and vice versa. There is currently no certainty where the cargo will be trucked and where the boat will have to travel from to pick up and deliver their cargo.

By having their truck deliveries and boat operations in Kalama, the tenant will have one definite, central location for truck deliveries between Portland and Astoria. If this project is constructed, truck cargo from Seattle will be delivered to Kalama, saving truck mileage. The Kalama dock and location will also save fuel, river miles, and crew time to deliver cargo to the ships. The following trips are common under existing conditions, and examples of boat distances and running times are as follows: Portland to Kalama is 54 river miles round trip and takes 5 hours, Longview to Kalama is 12 river miles round trip and takes 1 hour, Astoria to Kalama is 150 river miles round trip and takes 8 hours, and Portland to Astoria is 204 river miles round trip and takes 13 hours. It is common for boats to make the trip from Portland to Astoria to pick-up truck deliveries and deliver them to ships.

6c. Indicate the project category. (Check all that apply) [help]						
	esidential 🗆 Instituti	onal □ Transportatio	on ☐ Recreational			
☐ Maintenance ☐ E	nvironmental Enhancement					
6d. Indicate the major element	ents of your project. (Check all	that apply) [help]				
☐ Aquaculture	☐ Culvert	□ Float	☐ Retaining Wall			
☐ Bank Stabilization	☐ Dam / Weir	☐ Floating Home	(upland)			
☐ Boat House	☐ Dike / Levee / Jetty	☐ Geotechnical Survey	☐ Road☐ ScientificMeasurement Device☐ Stairs			
☐ Boat Launch	□ Ditch	☐ Land Clearing				
☐ Boat Lift	⊠ Dock / Pier	☐ Marina / Moorage				
□ Bridge	☐ Dredging ☐ Mining		☐ Stormwater facility			
☐ Bulkhead	□ Fence□ Outfall Structure□ Ferry Terminal□ Piling/Dolphin		☐ Swimming Pool			
□ Buoy			☐ ☑ Utility Line			
☐ Channel Modification	□ Fishway	Fishway Raft				
☐ Other:						

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6e. Describe how you plan to construct each project element checked in 6d. Include specific construction methods and equipment to be used. [help]

- Identify where each element will occur in relation to the nearest waterbody.
- Indicate which activities are within the 100-year floodplain.

ABOVE THE 100-YEAR FLOODPLAIN

Upland Area

Approximately 0.03 acres of the upland parcel adjacent to the dock will be used for staff vehicle parking and a truck loading/unloading area for cargo. This area is currently graveled and will be maintained as a graveled surface. Stormwater currently drains away from the river and toward the roadway, and the proposed project will maintain this flow direction.

WITHIN THE 100-YEAR FLOODPLAIN

Pier

The proposed cast-in-place concrete wall abutment and concrete deck (90 square feet) will support the landward portion of the pier. Construction will require equipment such as excavators, dump trucks, concrete trucks, compaction machines, delivery trucks, and forklifts. The river level is lower than the work area, and BMPs will be in place so that uncured concrete will not be allowed to enter the water.

Access to the barge dock will be from a 12-foot wide, 49.5-foot long, stationary pier supported by seven, 18-inch-diameter steel pipe piles. Four of the piles will be located above OHW and three will be located below OHW. Pier framing will consist of steel beam stringers and a fully grated deck of about 516 square feet. The decking material will be specified during a later design phase and will have at least 25 percent functional grating. Pier components will likely be manufactured offsite, and assembled on site. A steel-beam pile cap will be welded to the top of the piles.

Gangway Ramp

The 11 feet, 4-inches-wide by 100-foot-long gangway with a through-truss frame, hand rails, and deck grating made of aluminum. The decking material will be specified during a later design phase and will have at least 25 percent functional grating.

T-Barge Dock

The floating structure is a "T" shaped pontoon that the Port will re-purpose. It is constructed entirely of steel with overall dimensions of about 171 feet by 67 feet with a depth of 12 feet. Its draft is between 6 and 9 feet, with a freeboard of between 3 and 6 feet. The main section's length is 151 by 20 feet, and the end tee is 67 by 20 feet for a total surface area of 4,360 square feet.

The pontoon is painted and is similar to a barge in appearance. It was originally built to transport floating sections for the new SR-520 Bridge from Grays Harbor to Lake Washington. Three 24-inch-diameter steel pipe spud piles will be used to anchor the T-barge. When the barge arrives, the spud piles will be lowered to sink into the substrate under their own weight, so they will not be driven into place. A steel-frame hoist structure and various small mechanical and electrical equipment will be mounted to the existing deck. The barge dock will be ballasted with either City water or sand to achieve the desired draft and freeboard. Water for ballast will not be taken from or released into the Columbia River.

When water levels are at MLLW, the depth from the bottom of the barge dock to the riverbed is estimated at a minimum of 4 feet at the northeast corner. Commercial boats using the dock will be approximately 44, 55, or 63 feet long with a 4.5-foot draft, so they have drafts that are shallower than the T-barge dock. Dredging will not be necessary to maintain water depths at this time. The Port has an existing permit for maintenance dredging in this area.

Utilities

Lighting will be installed on the pier, gangway, and T-barge that will automatically turn on at night and will be directed at areas necessary for safe working conditions. There are existing street lights in the vicinity from Hendrickson Drive and from marina lighting.

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A new 3-inch waterline and new electrical service will be extended from the south end of the marina and along Hendrickson Drive. Water and electrical services will extend along the pier and gangway and onto the barge dock. Electrical service will originate from a pole across the street. Potable water will originate from a water main located near the Port offices, southwest of the existing marina.

Pier, Gangway, and Piling Installation

The pier will be constructed onsite, and the gangway will be prefabricated, delivered and installed. A barge-mounted derrick crane will install the piles and will set the prefabricated gangway onto the pier and T-barge. An additional storage barge, tug boat, and small tender boat will likely be on the water during construction. It is anticipated that all seven pier piles will be installed with a vibratory hammer and then driven to depth and proofed for bearing capacity with an impact hammer. The three log-boom piles will be extracted and relocated 50 feet to the north using a vibratory hammer.

Orphan Piles

Approximately 61 orphan piles near the shoreline will be removed to construct the project.

Log Boom and Log Storage Area

Three, existing, 24-inch hollow steel piles and log boom on the south side of the existing log storage area will be moved 50 feet northward to create a space for the new T-barge, gangway, and pier. This will reduce the log storage area by about 11,000 square feet.

The Port estimates that the log storage area is used by the tenant at least 50 percent of the time. The log storage area will not be expanded in this location as long as the T-barge remains in place.

PROJECT SUMMARY

Structure	Dimensions (feet)	Area (square feet)	Decking Material
Waterward of OHW			***************************************
Barge Dock	(20' x 67') + (20' x 151')	4,360	Solid
Portion of Pier	12' wide (diagonal to shoreline)	300	100% Grated
Gangway	11'4" x 100' (12 ft overlap w/dock)	994	100% Grated
Move 3 Existing Piles	24" diameter	(9.4 - no net gain)	Not Applicable
Install 3 New Pier Piles	18" diameter	5.3	Not Applicable
Lower 3 Non-Driven New Spud Piles	24" diameter	9.4	Not Applicable
Reduce Log Storage Area	P 77	- 11,000	Not Applicable
Remove Approx. 61 Orphan Piles	1' diameter	- 61	Not Applicable
		Net Area Waterward of OHW = - 5,340.1 sf	
Landward of OHW			
Concrete Landing and Decking		90 sf	Solid
Portion of Pier		294 sf	100 % Grated
Install 4 New Piles	18" diameter	(7.1 sf beneath pier)	Solid
		Net Area Landward of OHW = + 391 sf	
Net Area of Entire Project	= - 4,949 sf		

Notes: () = Not included in net area sum.

There will be 100% grating on the pier and gangway decks. Functional-grating area for the will be at least 25%.

Waterward of OHW

The project has proposed new overwater impact areas from the pier, gangway, and T-barge and new piling of 5,668.7 square feet. Overwater area in the log-storage area will be reduced by -11,000 square feet and proposed piling removal by -8.8 square feet for a net reduction of -11,008.8 square feet. The net reduction of on-water and in-water habitat impacts waterward of OHW is -5,648.1 square feet.

Landward of OHW

The project has proposed new impact areas for the concrete landing and a portion of the pier of 384 square feet. Proposed new piles equal 7.1 square feet. The net difference of the proposed project waterward of OHW is +391 square feet.

Total Project

The proposed project will reduce the net in-water and overwater impacts by 4,601 square feet.

Construction Sequencing

All construction will most likely be done in one continuous phase over 10 to 12 weeks. Pier piles will be driven before the pier is constructed, and the gangway cannot be installed until pier and T-barge float are in place. The contractor will determine the rest of the construction sequencing.

Concrete Details

All concrete work will comply with the 2012 International Building Code and the 2013 Washington State Amendments (IBC). Formwork and falsework will be designed by professional engineer licensed in the state of Washington and approved by the Port of Kalama's project engineer of record. The formwork will be mortar-tight. Concrete forms will be pre-fabricated to the extent possible to minimize onsite construction.

The concrete abutment and wall will be above OHW and will be constructed when river levels are below the work area. Reinforcing steel will be placed inside the forms, and the forms and reinforcing steel will be inspected prior to placing concrete. Concrete will be delivered to the site, placed, and vibrated using hand-held vibration wands to ensure a homogeneous finish. Finishing, curing and form removal will be completed per the relevant codes and specifications.

Concrete and construction materials will not enter the water because BMPs will be implemented. A boom will be placed around the work area and near the shore surrounding the abutment structure to avoid impacts to the aquatic environment.

Pile Installation Details

This project requires three existing 24-inch-diameter steel log-boom piles to be relocated, ten wooden orphan piles to be removed, and seven 18-inch-diameter hollow-steel piles to be installed to support the pier; three pier piles will be installed between OHW and MLLW, and four pier piles will be installed above OHW. Installing the 7 pier piles is estimated to occur over a period of seven days. Additionally, three 24-inch-diameter steel pipe spud piles will be used to anchor the T-barge. When the barge arrives, it will be moved into the plan location and anchored into place with the spud piles. The spud piles will not be driven, but will be lowered to sink into the substrate under their own weight.

It is anticipated that all seven pier piles will be installed with a vibratory hammer to tip elevations of about 20 feet below the mudline, then they will be driven for another 10 to 20 feet with an impact hammer to obtain bearing-capacity data (pile proofing). The designer estimates this will require an estimated 1,000 blows per pile. Each pile will also require impact-hammer proofing for about 60 minutes. A bubble curtain will be deployed when using the impact hammer to attenuate underwater sound-pressure levels (see Appendix B). No noise attenuation will be used during vibratory pile driving, because it does not generate enough noise to cause injury to listed fish or marine mammals.

A soft-start technique will be used for both vibratory and impact-hammer pile driving to allow aquatic species to leave the work area before full energy is used to drive piling. For vibratory pile driving, the contractor will initiate noise for 15 seconds at 40 to 60 percent reduced energy, followed by a 1-minute waiting period. This procedure will be repeated two additional times before full energy is applied. The soft-start procedure will be conducted prior to driving each pile if vibratory installation stops for more than 30 minutes. For impact driving, the contractor will be required to use an initial set of three strikes at 40 percent energy, followed by a 1-minute

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waiting period, then two subsequent three-strike sets (NMFS 2012).
Orphan Pile Removal Orphan piles will be removed by vibrating the pile as it is extracted. If the pile breaks, the remaining portion will be removed if it is less than 2 feet below the sediment surface. Orphan piles will be taken to an approved disposal site because they may contain creosote.
Secondary Project Features Construction activities associated with this project include material staging, storage, and a temporary soil storage area for soils excavated from pier abutment construction. Construction materials and supplies will be stored either on the work barge or on the upland parcel.
Excavated soil from abutment construction will be stockpiled on the upland parcel until the area around the concrete wall abutment is backfilled. The estimated 60 to 70 cubic yards of excess soils will be covered with plastic to avoid erosion during precipitation events and will eventually be removed from the site to be placed on Port property. No traffic detours will be necessary.
PROJECT TIMING All construction will most likely be done in one continuous phase over 10 to 12 weeks. Pile driving and removal is the only proposed in-water work, which will take approximately 3 to 4 weeks. Most of the pile driving and all of the piling removal will be completed using the vibratory method, which does not cause injury to aquatic life. For this reason, all project work may occur during any time of the year.
6f. What are the anticipated start and end dates for project construction? (Month/Year) [help]
If the project will be constructed in phases or stages, use <u>JARPA Attachment D</u> to list the start and end dates of each phase or stage.
Start Date: Fall 2018 End Date: Spring 2019 ☐ See JARPA Attachment D
6g. Fair market value of the project, including materials, labor, machine rentals, etc. [help]
\$1,000,000
6h. Will any portion of the project receive federal funding? [help]If yes, list each agency providing funds.
☐ Yes ☒ No ☐ Don't know
Part 7–Wetlands: Impacts and Mitigation ☐ Check here if there are wetlands or wetland buffers on or adjacent to the project area. (If there are none, skip to Part 8.) [help]
7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [help]
□ Not applicable
7b. Will the project impact wetlands? [help]
☐ Yes ☐ No ☐ Don't know
7c. Will the project impact wetland buffers? [help]
☐ Yes ☐ No ☐ Don't know

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7d. Has a wetland d • If Yes. submit the	elineation report e report, including d			e.		
☐ Yes ☐ No						
7e. Have the wetland System? [help] • If Yes, submit the	ds been rated us				ashington Wetl	and Rating
□ Yes □ No	☐ Don't know					
	ed a mitigation p e plan with the JARI plicable, explain be	PA package and an	swer 7g.		to wetlands?	[help]
□ Yes □ No	☐ Don't know					
7g. Summarize wha used to design t7h. Use the table be impact, and the	he plan. [help] low to list the typ	pe and rating of to find the first t	each wetland oposed. Or if	impacted, the you are submi	extent and du itting a mitigati	ration of the
similar table, you Activity (fill, drain, excavate, flood, etc.)	u can state (belo Wetland Name ¹	w) where we ca Wetland type and rating category ²	Impact area (sq. ft. or Acres)	Duration of impact ³	Proposed mitigation type ⁴	Wetland mitigation area (sq. ft. or acres)
¹ If no official name for the was a wetland delineation re ² Ecology wetland category to the JARPA package. ³ Indicate the days, months of a Creation (C), Re-establishmen Page number(s) for second and the seco	port. pased on current Westo or years the wetland wi nent/Rehabilitation (R),	ern Washington or Eas Il be measurably impa Enhancement (E), Pr	stern Washington Nated by the activity reservation (P), Mil	Wetland Rating Sysi /. Enter "permanent' tigation Bank/In-lieu	tem. Provide the we	
7i. For all filling active yards that will be7j. For all excavating cubic yards you were active active.	used, and how a	and where it will	be placed into	o the wetland.	[help]	

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Part 8-Waterbodies (other than wetlands): Impacts and Mitigation

In Part 8, "waterbodies" refers to non-wetland waterbodies. (See Part 7 for information related to wetlands.) [help]

\[
\textsup \text{Check here if there are waterbodies on or adjacent to the project area. (If there are none, skip to Part 9.)}
\]

8a	. Describe how the project is designed to avoid and minimize adverse impacts to the aquatic environment. [help]
	□ Not applicable
	The project footprint is designed to be as small as possible to fulfill the project purpose of mooring up to five service boats. The dock and pier will be placed within a shoreline environment that is already developed for

IMPACT AVOIDANCE AND MINIMIZATION MEASURES

The project will be constructed to avoid and minimize impacts to habitats and species that may potentially occur in the vicinity of the project area. This will be accomplished by using the following measures:

recreational and industrial uses so that habitat impacts are not extended into undisturbed areas.

General

- Stormwater runoff from the upland project area will continue to be directed away from the river where it
 will infiltrate.
- Conditions in local, state, and federal permits will be followed.
- Any stockpiled soils from concrete abutment excavation will either be hauled away the same day or covered with plastic until it is removed from the site.
- Disturbed soils from around the abutment will be stabilized by grading and compaction to avoid impacts to the river from erosion.

In-Water

- The T-barge dock, work boats, and the derrick barge, will not "ground out" at any time. Commercial boats moored at the barge dock have drafts are shallower than the T-barge dock.
- Contractors will have a spill containment and pollution control plan, and employees will be trained in its implementation.
- The contractor will maintain an oil-absorbing floating boom around in-water and overwater work areas.
- No debris will be allowed to enter the river from the barge, boats associated with construction, or moored boats.
- Pile driving with an impact hammer to proof piles will take place within a confined bubble curtain.
- A soft-start technique will be used for vibratory and impact-hammer pile driving to allow any aquatic species to leave the work area before full energy is used to drive the pile. The technique was explained previously in this section.
- Pile caps will be installed on all piling associated with this project to prevent perching by birds that feed on iuvenile salmon.

8b. Will your project impact a waterbody or the area around a waterbody? [help]	
⊠ Yes □ No	
8c. Have you prepared a mitigation plan to compensate for the project's adverse impacts to non-wetland waterbodies? [help]	
If Yes, submit the plan with the JARPA package and answer 8d.	
If No, or Not applicable, explain below why a mitigation plan should not be required.	
☐ Yes ☑ No ☐ Don't know	

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Beneficial effects of the project are primarily from reducing the log storage area by 11,000 square feet. This is a larger area than the overwater and on-water areas of the proposed project. A Habitat Equivalency Analysis was conducted according to the National Marine Fisheries Service guidelines, which quantifies habitat impacts and benefits for the project. The detailed results of the analysis are presented in the project's biological evaluation; however in summary, project benefits more than compensate for project impacts. These results were confirmed by NMFS representative, Shandra O'Haleck, during a conference call in March 2018. Therefore, the project is self-mitigating.

The project removes 10 orphan piles to create adequate space for the gangway and T-barge dock. There will also be fewer boat miles traveled on the river with a dock centrally located between Portland and Astoria, resulting in reduced water-quality impacts. Truck mileage will also be reduced because deliveries originate in Seattle and do not have to make the longer trips to Portland or Astoria docks.

- **8d.** Summarize what the mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.
 - If you already completed 7g you do not need to restate your answer here. [help]

8e. Summarize impact(s) to each waterbody in the table below. [help]

Activity (clear, dredge, fill, pile drive, etc.)	Waterbody name ¹	Impact location ²	Duration of impact ³	Amount of material (cubic yards) to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
New Piles	Columbia River	Waterward of OHW	Permanent		14.7
Relocated Piles	Columbia River	Waterward of OHW	Permanent		0
Upland Piles	(riverbank)	Landward of OHW	Permanent		7.1
Underwater Noise from Pile Driving	Columbia River	Underwater	Vibratory: 7 days Impact: 2 days		1.1 square miles
Pier	Columbia River	Overwater	Permanent		300
Pier	(riverbank)	Landward of OHW	Permanent		294
Gangway	Columbia River	Overwater	Permanent		994
T-Barge Dock	Columbia River	On-water	Permanent		4,360

¹ If no official name for the waterbody exists, create a unique name (such as "Stream 1") The name should be consistent with other documents provided. ² Indicate whether the impact will occur in or adjacent to the waterbody. If adjacent, provide the distance between the impact and the waterbody and indicate whether the impact will occur within the 100-year flood plain.

³ Indicate the days, months or years the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

8f. For all activities identified in 8e, describe the source and nature of the fill material, amount (in cubic yards) you will use, and how and where it will be placed into the waterbody. [help]

No fill is proposed.

8g. For all excavating or dredging activities identified in 8e, describe the method for excavating or dredging, type and amount of material you will remove, and where the material will be disposed. [help]

No dredging is proposed for this project

Part 9-Additional Information

Any additional information you can provide helps the reviewer(s) understand your project. Complete as much of this section as you can. It is ok if you cannot answer a question.

Agency Name	Contact Name	Phone	Most Recent Date of Contact
NMFS	Shandra O'Haleck	(360) 753-9533	March 1, 2018
Corps – Portland District	Melody White	(503) 808-4041	January 20, 2016
Corps – Portland District	Margaret Chang	(503) 808-4041	January 20, 2016
USFWS	Terry Fredrick	(503) 231-6120	March 1, 2018
WDFW	Steve West	(360) 906-6720	March 1, 2018
Mark Person	City of Kalama	(360) 673-4561	March 1, 2018
Adam Smee	City of Kalama	(360) 673-3265	March 1, 2018
	ream (north) past Longview MDL]) for high water tempe	pairments within the Columb w is an area listed as Cat erature and dissolved oxygo	pia River near the project. At the egory 5 (waters needing a tot en. Existing water quality in the no effect on these water-quali
	al Survey Hydrological Unit (.gov/surf/locate/index.cfm to help		n? [help]
	ce Inventory Area Number (\ wa.gov/Water-Shorelines/Water-s		
WRIA 27 (Kalama/Lev	wis watersheds)		
	struction work comply with t	he State of Washington wat	er quality standards for turbidity

9f. If the project is within the jurisdiction of the Shoreline Management Act, what is the local shoreline environment designation? [help]
If you don't know, contact the local planning department.
 For more information, go to: <a forest-practices-water-typing"="" href="https://ecology.wa.gov/Water-Shorelines/Shoreline-coastal-management/Shoreline-co</td></tr><tr><td></td></tr><tr><td>⊠ Urban □ Natural □ Aquatic □ Conservancy □ Other:</td></tr><tr><td>9g. What is the Washington Department of Natural Resources Water Type? [help]</td></tr><tr><td>Go to http://www.dnr.wa.gov/forest-practices-water-typing for the Forest Practices Water Typing System.
⊠ Shoreline □ Fish □ Non-Fish Perennial □ Non-Fish Seasonal
 9h. Will this project be designed to meet the Washington Department of Ecology's most current stormwater manual? [help] If No, provide the name of the manual your project is designed to meet.
☐ Yes ☐ No Not Applicable. There are no impervious surfaces or changes to stormwater conveyance proposed for this project.
Name of manual:
9i. Does the project site have known contaminated sediment? [help] • If Yes, please describe below.
☐ Yes ☒ No
The most recent 303(d) website search showed no sediment-quality impairments in the vicinity.
9j. If you know what the property was used for in the past, describe below. [help]
Wood exports and fish canning have occurred in this general area, but the exact location is unknown.
 9k. Has a cultural resource (archaeological) survey been performed on the project area? [help] If Yes, attach it to your JARPA package.
⊠ Yes □ No A cultural resource assessment was conducted and is attached.

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9I. Name each species listed under the federal Endangered Species Act that occurs in the vicinity of the project area or might be affected by the proposed work. [help]

State Priority Habitats and Federal and State Endangered, Threatened, Candidate, and Sensitive Species that have Primary Association with Habitat on or Adjacent to the Project Area.

Species or State Priority Habitat	State Status	Federal Status
et a		
Fish Chinook Salmon (Onchorhynchus tshawytscha)		
Lower Columbia River Chinook ESU	Candidate	Threatened
Upper Willamette River Chinook ESU	Candidate	Threatened
	Candidate	Endangered
Upper Columbia River Spring-run Chinook ESU	Candidate	Threatened
Snake River Spring-run Chinook ESU	Candidate	Threatened
Snake River Fall-run Chinook ESU	Candidate	Tilleateried
Chum Salmon (Onchorhynchus keta)	Candidate	Threatened
Columbia River Chum Salmon ESU	Candidate	Tilleateried
Coho Salmon (Onchorhynchus kisutch)	Candidate	Threatened
Lower Columbia River Coho Salmon ESU	Candidate	Tilleatened
Sockeye Salmon (Onchorhynchus nerka)	Condidata	Endangered
Snake River Sockeye DPS	Candidate	Endangered
Steelhead (Onchorhynchus mykiss)	Thurstoned	Threatened
Lower Columbia River Steelhead DPS	Threatened Threatened	Threatened
Upper Willamette River Steelhead DPS	Threatened	Threatened
Middle Columbia River Steelhead DPS		Threatened
Upper Columbia River Steelhead DPS	Threatened	
Snake River Basin Steelhead DPS	Threatened	Endangered
North American Green Sturgeon	Nama	Threatened
Southern DPS (Acipenser medirostris)	None Candidate	Threatened Threatened
Eulachon (Columbia River Smelt)	Candidate	Threatened
Southern DPS (Thaleichthys pacificus)	Candidate	Threatened
Bull Trout – Columbia River DPS	Candidate	Threatened
(Salvelinus confluentus)	Candidate	Candidate
River Lamprey (Lampetra ayresi)	Candidate	Candidate
Birds	S	
Western Grebe (Aechmophorus occidentalis)	Candidate	None
Bald Eagle (Haliaeetus leucocephalus)	Sensitive	Species of Concern
Purple Martin (Progne subis)	Candidate	None
Priority Habitats		
Instream	Priority Habitat	Not applicable
Riparian	Priority Habitat	Not applicable

9m. Name each species or habitat on the Washington Department of Fish and Wildlife's Priority Habitats and Species List that might be affected by the proposed work. [help]

See table above.

Part 10-SEPA Compliance and Permits

Use the resources and checklist below to identify the permits you are applying for.

- Online Project Questionnaire at http://apps.oria.wa.gov/opas/.
- Governor's Office for Regulatory Innovation and Assistance at (800) 917-0043 or help@oria.wa.gov.
- For a list of addresses to send your JARPA to, click on agency addresses for completed JARPA.

 10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [help] For more information about SEPA, go to https://ecology.wa.gov/regulations-permits/SEPA-environmental-review. 			
☐ A copy of the SEPA determination or letter of exemption is included with this application.			
☑ A SEPA determination is pending with the Port of Kalama (lead agency). The expected decision date is TBD			
☐ I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) [help]			
 ☐ This project is exempt (choose type of exemption below). ☐ Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt? 			
□ Other:			
☐ SEPA is pre-empted by federal law.			
10b. Indicate the permits you are applying for. (Check all that apply.) [help]			
LOCAL GOVERNMENT			
Local Government Shoreline permits:			
⊠ Substantial Development ⊠ Conditional Use □ Variance			
☐ Shoreline Exemption Type (explain):			
Other City/County permits:			
☐ Floodplain Development Permit			
STATE GOVERNMENT			
Washington Department of Fish and Wildlife:			
Washington Department of Natural Resources:			
 □ Aquatic Use Authorization Complete <u>JARPA Attachment E</u> and submit a check for \$25 payable to the Washington Department of Natural Resources. <u>Do not send cash.</u> 			
Washington Department of Ecology:			
☐ Section 401 Water Quality Certification			
FEDERAL GOVERNMENT			
United States Department of the Army permits (U.S. Army Corps of Engineers):			
☑ Section 404 (discharges into waters of the U.S.) ☑ Section 10 (work in navigable waters)			
United States Coast Guard permits:			
☐ General Bridge Act Permit ⊠ Private Aids to Navigation (for non-bridge projects)			

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Part 11–Authorizing	Signatures
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Signatures are required before submitting the JARPA package. The JARPA package includes the JARPA form, project plans, photos, etc. [help]

11a. Applicant Signature (required) [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities, and I agree to start work only after I have received all necessary permits.

I hereby authorize the agent named in Part 3 of this application to act on my behalf in matters related to this application. (initial)

By initialing here, I state that I have the authority to grant access to the property. I also give my consent to the permitting agencies entering the property where the project is located to inspect the project site or any work related to the project. _____ (initial)

Applicant Printed Name

5-10-18 Date

11b. Authorized Agent Signature [help]

I certify that to the best of my knowledge and belief, the information provided in this application is true, complete, and accurate. I also certify that I have the authority to carry out the proposed activities and I agree to start work only after all necessary permits have been issued.

Nicole L. White

Nicole L. White
Authorized Agent Signature

Authorized Agent Printed Name

11c. Property Owner Signature (if not applicant) [help]

Not required if project is on existing rights-of-way or easements (provide copy of easement with JARPA).

I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

Property Owner Printed Name

Property Owner Signature

Date

18 U.S.C §1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

If you require this document in another format, contact the Governor's Office for Regulatory Innovation and Assistance (ORIA) at (800) 917-0043. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341. ORIA publication number: ORIA-16-011 rev. 07/2017