



2009
WASHINGTON STATE
Joint Aquatic Resources Permit
Application (JARPA) Form [\[help\]](#)



US Army Corps
of Engineers
Seattle District

AGENCY USE ONLY

Date received: _____

Agency reference #: _____

Tax Parcel #(s): _____

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

Part 1—Project Identification

Unique project information that makes it easy to identify. [\[help\]](#)

1a. Unique Project Identifier Number (UPI #) [help]	
<ul style="list-style-type: none"> Don't have one yet? Get one at http://www.epermitting.wa.gov or call the Washington Governor's Office of Regulatory Assistance at (800) 917-0043. 	
155150-09-01	
1b. Project Name (Examples: Smith's Dock or Seabrook Lane Development) [help]	
Shoalwater Bay Flood and Coastal Storm Damage Reduction Project	

Part 2—Applicant

The person or organization responsible for the project. [\[help\]](#)

2a. Name (Last, First, Middle) and Organization (if applicable)			
U.S. Army Corps of Engineers			
2b. Mailing Address (Street or PO Box)			
P O Box 3755			
2c. City, State, Zip			
Seattle, WA, 98124-3755			
2d. Phone (1)	2e. Phone (2)	2f. Fax	2g. E-mail
(206) 764-3512	(206) 764-6922	(209) 764-4467	rhonda.s.lucas@usace.army.mil

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, Middle) and Organization (if applicable)			
Rhonda Lucas, PM-PL-ER			
3b. Mailing Address (Street or PO Box)			
P O Box 3755			
3c. City, State, Zip			
Seattle, WA, 98124-3755			
3d. Phone (1)	3e. Phone (2)	3f. Fax	3g. E-mail
(206) 764-3512	(206) 764-6922	(209) 764-4467	rhonda.s.lucas@usace.army.mil

Part 4–Property Owner(s) [\[help\]](#)

Contact information for people or organizations owning the property(ies) where the project will occur. [\[help\]](#)

- Same as applicant. (Skip to Part 5.)
- Repair or maintenance activities on existing rights-of-way or easements. (Skip to Part 5.)
- There are multiple property owners. Complete the section below and use [JARPA Attachment A](#) for each additional property owner.

4a. Name (Last, First, Middle) and Organization (if applicable)			
4b. Mailing Address (Street or PO Box)			
4c. City, State, Zip			
4d. Phone (1)	4e. Phone (2)	4f. Fax	4g. E-mail
()	()	()	

Part 5–Project Location(s)

Identifying information about the property or properties where the project will occur. [\[help\]](#)

- There are multiple properties or project locations (e.g., linear projects). Complete the section below and use [JARPA Attachment B](#) for each additional property.

5a. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5n.) [help]			
Barrier Dune restoration along Empire Spit and Willapa Channel. See 5n below for details.			
5b. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [help]			
Shoalwater Bay Tribal Reservation, Willapa Bay, near Tokeland, Washington			
5c. County [help]			
Pacific County			
5d. Provide the section, township, and range for the project location. [help]			
¼ Section	Section	Township	Range
Unsurveyed aquatic	South of Sections 2,3,4	T14N	R11W
5e. Provide the latitude and longitude of the project location. [help]			
<ul style="list-style-type: none"> Example: 47.03922 N lat. / -122.89142 W long 			
46.720152 N lat / -124.029808 W long See attached project vicinity and location maps in Figure 1.			
5f. List the tax parcel number(s) for the project location. [help]			
<ul style="list-style-type: none"> The local county assessor’s office can provide this information. 			
See attached Figure 2 for tideland parcels on the draft survey map			
5g. Indicate the type of ownership of the property. (Check all that apply.) [help]			
<input checked="" type="checkbox"/> State Owned Aquatic Land <input checked="" type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private <input type="checkbox"/> Other publicly owned (federal, state, county, city, special districts like schools, ports, etc.)			

5h. Contact information for all adjoining property owners, lessees, etc. (If you need more space, use [JARPA Attachment C.](#)) [\[help\]](#)

Name	Mailing Address	Tax Parcel # (if known)

5i. Is any part of the project area within a 100-year flood plain? [\[help\]](#)

Yes No Don't know

5j. Briefly describe the vegetation and habitat conditions on the property. [\[help\]](#)

The project area consists of an eroding barrier dune on Empire Spit that fronts the Tokeland Peninsula. The existing barrier dune has breached in several places. Portions of the dune are covered by both native vegetation (dune grass) and invasive species (such as Scots broom), interspaced with open sand areas. Habitat conditions are undeveloped, although degraded due to the repeated storm surges that flow through the dune breaches and inundate the North Cove estuarine wetlands with sand. Please refer to the attached 2010 wetland delineation report for more information.

5k. Describe how the property is currently used. [\[help\]](#)

The Graveyard Spit and Empire Spit dune system front the degraded North Cove estuarine area and protect the Shoalwater Reservation uplands from shoreline wave attack during extreme high tide storms. The site is used minimally for recreation by the tribe and local public (hikers, dog walkers, and fisherman). Please refer to the Draft EA for more information.

5l. Describe how the adjacent properties are currently used. [\[help\]](#)

The Shoalwater Reservation is slightly greater than one-square mile in area and consists of 440 acres of uplands and 700 acres of important estuarine, intertidal and interdunal habitat in North Cove. All Reservation land is tribally owned, and is bounded by steep natural hillsides to the east and north and by Willapa Bay to the south. Landward from the dune system and the North Cove wetlands, State Route 105 parallels the coast. The Tribe is acquiring easements for all project work outside of the Tribal boundary.

5m. Describe the structures (above and below ground) on the property, including their purpose(s). [\[help\]](#)

No structures are present within the project area.

5n. Provide driving directions from the closest highway to the project location, and attach a map. [\[help\]](#)

The Project area occurs immediately west of State Route 105 and Tokeland Road. The existing coastal barrier dune (Empire Spit) extends for approximately 4 miles along the coast, from Tokeland to the south, towards Cape Shoalwater to the north. Barrier dune restoration is planned to occur along an approximately 11,400-foot length of the dune. Of this length 4,100 feet are within the Shoalwater Reservation boundary and 7,300 linear feet are outside of tribal lands. Please refer to attached Table 1 for fill lengths and areas. Location maps are attached for reference in Figure 1.

Part 6–Project Description

6a. Summarize the overall project. You can provide more detail in 6d. [\[help\]](#)

Historically, the Graveyard Spit and Empire Spit dune system protected the Shoalwater Reservation uplands from shoreline wave attack during extreme high tide storms. However, the barrier dune system fronting North Cove has eroded significantly and two breaches have developed through the barrier dune that comprises Empire Spit. Erosion of the barrier dune exposes the Shoalwater Reservation uplands to increasing levels of flooding. This flooding has been exacerbated by the degradation of estuarine wetlands within North Cove that have been impacted by breach fragmentation and increased sand encroachment and have continued to degrade as erosion of the barrier dune has increased. What has until recently been only nuisance flooding is now predicted to be serious flooding with damage to tribal facilities and potential for loss of life.

The primary purpose of this project is to reduce coastal erosion and the resulting flooding and coastal storm damage to the Shoalwater Reservation and to the Shoalwater Bay Indian Tribe through dune restoration. Secondly, the project will help naturally restore North Cove wetland functions to their historic levels by returning the barrier dune to its previous topography and maintaining its condition. This will enhance estuarine and interdunal vegetation by halting further degradation and allowing wetlands to reestablish in areas filled by sand and impacted by flood events.

The dune restoration is intended to rebuild, and maintain the now deteriorated dune system with sand dredged from the adjacent Willapa Bay entrance and channel. For both construction and maintenance, the sand will be dredged from a borrow area located southwest of the project, on either side of the northern Willapa Bay channel. The dune restoration would be constructed along the crest of the now deteriorated dune. The dune footprint would be about 57 total acres, 15 acres of which are within the Tribal boundary and approximately 42 of which are outside tribal lands (see attached Table 1). The initial dune restoration would require the placement of approximately 700,000 cubic yards of sand. The proposed alignment of the restored barrier dune will be based on updated topography data acquired by survey just prior to construction.

Erosion by storm waves and currents will continue, and the restored barrier dune will require maintenance on a regular basis. The Corps would maintain the barrier dune approximately every five years by dredging approximately 250,000 cy from the Willapa Bay channel and placing the dredged material on the restored dune. Each time maintenance is required, the dredged material would be placed along the general alignment of the first placement footprint to prevent the gradual roll-back of the barrier dune towards the shore. The program of grading and planting for the initial sand placement would be repeated with each periodic nourishment cycle for the barrier dune.

Herein, the Corps is requesting a 401 WQC from EPA for tribal lands and Ecology for non-tribal lands, respectively, for a period to cover the initial construction through the first maintenance event.

6b. Indicate the project category. (Check all that apply.) [\[help\]](#)

- Commercial
 Residential
 Institutional
 Transportation
 Recreational
 Maintenance
 Environmental Enhancement

6c. Indicate the major elements of your project. (Check all that apply.) [\[help\]](#)

<input type="checkbox"/> Aquaculture	<input type="checkbox"/> Culvert	<input type="checkbox"/> Float	<input type="checkbox"/> Road
<input type="checkbox"/> Bank Stabilization	<input type="checkbox"/> Dam / Weir	<input type="checkbox"/> Geotechnical Survey	<input type="checkbox"/> Scientific Measurement Device
<input type="checkbox"/> Boat House	<input type="checkbox"/> Dike / Levee / Jetty	<input type="checkbox"/> Land Clearing	<input type="checkbox"/> Stairs
<input type="checkbox"/> Boat Launch	<input type="checkbox"/> Ditch	<input type="checkbox"/> Marina / Moorage	<input type="checkbox"/> Stormwater facility
<input type="checkbox"/> Boat Lift	<input type="checkbox"/> Dock / Pier	<input type="checkbox"/> Mining	<input type="checkbox"/> Swimming Pool
<input type="checkbox"/> Bridge	<input checked="" type="checkbox"/> Dredging	<input type="checkbox"/> Outfall Structure	<input type="checkbox"/> Utility Line
<input type="checkbox"/> Bulkhead	<input type="checkbox"/> Fence	<input type="checkbox"/> Piling	
<input type="checkbox"/> Buoy	<input type="checkbox"/> Ferry Terminal	<input type="checkbox"/> Retaining Wall (upland)	
<input type="checkbox"/> Channel Modification	<input type="checkbox"/> Fishway		

<input checked="" type="checkbox"/> Other: <u>Barrier Dune restoration and stabilization utilizing dredged sand</u>			

6d. Describe how you plan to construct each project element checked in 6c. 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 flood plain.

700,000 cubic yards of material to be dredged with pipeline dredge from offshore borrow area and placed on severely eroded barrier dune located immediately waterward of the Shoalwater Bay Tribal Reservation. Approximately 24 acres waterward of OHWM will be covered with dredged material (sand). All activities occur within the 100-year flood plain.

The dune restoration would be constructed along the crest of the now deteriorated dune, extending approximately 12,000-feet-long, with a top elevation of +25 feet MLLW, a top width of 20 feet, and a side slope of 1V on 5H. The dune footprint would be approximately 57 total acres. A construction design overview is provided in attached Figure 3.

Adjustments to the dune alignment have been done so as to avoid impacts to estuarine marsh and minimize impacts to interdunal wetlands. The dredged sand closing the breaches will be graded during construction and, on the dune crest and North Cove (landward) side, planted with native dune grass. A 20-foot wide bench will be built into the ocean side of the dune to provide nesting habitat for Western snowy plover; the ocean side of the restored dune would remain unplanted. Following construction, the top and landward slope restored barrier dune will be fully revegetated with native species and stockpiled large woody debris. This project has been designed to provide flood protection while resulting in a net gain in wetland acreage and function within North Cove.

6e. What are the start and end dates for project construction? (month/year) [\[help\]](#)

- If the project will be constructed in phases or stages, use [JARPA Attachment D](#) to list the start and end dates of each phase or stage.

Start date: __estimated July 2011__ End date: __Estimated Oct 2062 (incl. supplemental nourishment) __
 See JARPA Attachment D

Herein, the Corps is requesting a 401 WQC from for a period to cover the initial construction through the first maintenance event.

6f. Describe the purpose of the work and why you want or need to perform it. [\[help\]](#)

Winter storms in 1998-1999 caused two breaches to form in the barrier dune, resulting in storm wave run-up and flooding of shoreline areas where tribal development is concentrated. Coastal storms that coincided with extreme water levels in March 1999, December 2001, February 2006, and December 2007 resulted in significant erosion and storm wave overtopping of the barrier dune, some erosion of the shoreline, and flooding of tribal uplands. These events have created a growing sense of urgency on the part of the Shoalwater Tribe for implementation of long-term coastal erosion protection and storm damage reduction measures. Additionally, there is a need to retard the ongoing degradation of North Cove wetlands habitats that have been attributed to barrier dune breaches and sand encroachment.

Barrier dune restoration will significantly reduce flooding and coastal storm damage to Tribal uplands, as well as prevent further habitat degradation in the 700-acre North Cove area. Overall, the project will result in a net gain in acreage and a functional lift to wetland habitats through reestablishment and enhancement efforts. Implementation of the project will improve the quality of life for present and future generations of Shoalwater Bay Tribal members. This is a vitally important project to a remotely located Native American community in a highly vulnerable location along the Washington coast.

6g. Fair market value of the project, including materials, labor, machine rentals, etc. [\[help\]](#)

Estimated total first cost for initial construction of \$9,827,000; periodic nourishment/monitoring every five years

at a cost of \$4,512,000; a total present value of \$25,882,000; and a total average annual cost of \$1,336,000.

6h. Will any portion of the project receive federal funding? [\[help\]](#)

- **If yes**, list each agency providing funds.

Yes No Don't know

U.S. Army Corps of Engineers in accordance with Section 545 of the Water Resources Development Act (WRDA) of 2000, Public Law 106-541, as amended by Section 5153 of WRDA 2007 (Public Law 110-114)

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.)

7a. Describe how the project has been designed to avoid and minimize adverse impacts to wetlands. [\[help\]](#)

Not applicable

When the project was originally authorized, it was designed to be constructed solely for flood protection using riprap placed within the landward boundary of North Cove along State Route 105. After reassessing habitats and hydraulic conditions in the vicinity, the project was redesigned in an effort to avoid and minimize impacts. The currently proposed project was developed to meet the purpose of providing protection from coastal flooding and erosion through restoration of the coastal barrier dune.

Graveyard Spit (the project area) consists of a highly dynamic coastal beach environment. Within the Tribal boundary, the existing eroded dune is interspersed with a mosaic of interdunal wetlands in the extreme northwestern portions of the project area. A wetland delineation was conducted in June 2010 to assess the current configuration of the wetland mosaic boundary. In July 2010 the proposed dune footprint was modified to minimize wetland impacts; the alignment was redesigned to move the dune prism ocean ward to reduce the quantity of sand that would cover and spill into interdunal wetland margins. The dune alignment modification is shown in Figure 4. The original site design called for the impact of 1.15 acres of wetlands to be filled by the dune; through redesign, the wetland impact has been minimized to 0.31 acres. See attached modified footprint figure. **All wetlands within or adjacent to the dune footprint occur within the Shoalwater Reservation boundary; there are no wetland impacts within State waters.**

This project is expected to eventually result in a net gain of both wetland acres and functional lift so that the total environmental benefits outweigh the impacts. Within the Willapa Bay watershed context, estuarine, intertidal and interdunal habitats were a prominent feature historically. These habitats in North Cove represent a limited resource that has continued to diminish substantially over time. The change in North Cove geomorphology between 1994 and 2003 is illustrated on Figure 5. As a result of restoring the barrier dune to its historic condition, it is anticipated habitats within North Cove will be restored and enhanced due to increased protection from sand inundation and flood surges. Additionally, repairing the breaches that have fragmented the existing habitats and revegetating with native species should increase habitat connectivity.

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

7d. Has a wetland delineation report been prepared? [\[help\]](#)

- **If yes**, submit the report, including data sheets, with the JARPA package.

Yes No

7e. Have the wetlands been rated using the Western Washington or Eastern Washington Wetland Rating System? [\[help\]](#)

- **If yes**, submit the wetland rating forms and figures with the JARPA package.

Yes No Don't know = Category II interdunal wetlands

7f. Have you prepared a mitigation plan to compensate for any adverse impacts to wetlands? [\[help\]](#)

- **If yes**, submit the plan with the JARPA package.

Yes No Not applicable (refer to project EA)

7g. Use the table below to list the type and rating of each wetland that will be impacted; the extent and duration of the impact; and the type and amount of compensatory mitigation proposed. If you are submitting a compensatory mitigation plan with a similar table, you may simply state (below) where we can find this information in the mitigation plan. [\[help\]](#)

Activity causing impact (fill, drain, excavate, flood, etc.)	Wetland type and rating category ¹	Impact area (sq. ft. or acres)	Duration of impact ²	Proposed mitigation type ³	Wetland mitigation area (sq. ft. or acres)
Fill with sand	II	0.31 acres within Tribal lands	permanent	R, E	~14 acres

¹ Ecology wetland category based on current Western Washington or Eastern Washington Wetland Rating System. Provide the wetland rating forms with the JARPA package.

² Indicate the time (in months or years, as appropriate) the wetland will be measurably impacted by the activity. Enter "permanent" if applicable.

³ Creation (C), Re-establishment/Rehabilitation (R), Enhancement (E), Preservation (P), Mitigation Bank/In-lieu fee (B)

Page number(s) for similar information in the mitigation plan, if available: _____

7h. For all filling activities identified in 7g., describe the source and nature of the fill material, the amount in cubic yards that will be used, and how and where it will be placed into the wetland. [\[help\]](#)

A total of 700,000 cubic yards of sand dredged from an offshore borrow site will be placed along 11,400 linear feet within a 57-acre total footprint. After placement, the sand will be piled and shaped into the barrier dune configuration using loader and bulldozer equipment.

Within the Shoalwater Reservation boundary, 175,000 cubic yards of fill will be placed. However, the 950 linear feet of the barrier dune alignment where 0.31 acres of interspersed wetlands occur, represents only a small proportion of the total project area footprint where fill will be placed (approximately 0.5%). It can be extrapolated that approximately 3,800 cubic yards of sand will be placed within this 0.31-acre wetland area of the barrier dune.

No wetland fill will occur outside of the tribal boundary within State lands.

7i. For all excavating activities identified in 7g., describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [\[help\]](#)

n/a

7j. Summarize what the compensatory mitigation plan is meant to accomplish, and describe how a watershed approach was used to design the plan. [[help](#)]

Re-establishment: Restoration of the barrier dune will help return natural and historic functions to the existing North Cove wetlands that have become severely degraded and fragmented due to breaches in the eroded dune. Re-establishment of the historic dune topography will result in reducing wave and tidal surge activity and substantially reduce the encroachment of sand drift into the North Cove wetlands. Over time this will result in a gain in both wetland acres and functions as the wetlands reestablish over breached areas and settle back into equilibrium in the absence of disturbance from storm surges.

Enhancement: The vegetative composition of the landward slope of the 12,000-foot barrier site will be enhanced by planting of native dune grass along approximately 600,000 square feet (~13.8 acres). Large woody debris will be placed along the crest and landward slope of the barrier dune to provide anchoring support for establishing plants and add additional nutrients into the North Cove while providing microhabitats beneficial to invertebrate species.

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](#)]

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

Distribution of eel grass in the Project Area vicinity is likely to be patchy due to dredging area water depths. Substantial impacts to eel grass beds are not anticipated.

Short-term, temporary and localized increases in noise and turbidity are anticipated; short-term disruption of benthic community at borrow area will result in potential impacts to Dungeness Crabs. Impacts on salmonids will be reduced and/or avoided through implementation of timing restrictions: No work waterward of MHHW will occur during the juvenile outmigration period, March 1 through June 14. For the protection of bull trout, no work waterward of MHHW will occur between February 16 and July 15.

Other Impact minimization and mitigation measures include: (1) construction timing (season) and duration will occur when fish and aquatic mammal species are less likely utilizing borrow and disposal areas or migrating in vicinity; (2) the borrow site was selected that was demonstrated to have the fewest occurrences of Dungeness crab during trawl sampling; (3) a Dungeness Crab Impact Minimization Plan had been prepared (see attached) that identifies ways to minimize the net impacts to crabs by adaptively managing dredging and construction methods and, where appropriate, rectifying the impact by repairing, rehabilitating, or restoring habitat to increase crab production in the project vicinity; (4) dredging techniques will be utilized that holds the cutter head in a single location for a relatively long duration and minimizes movement along benthic surface, thus reducing benthic fauna entrainment; (5) the project will support and follow 2008 State of Washington Management Recommendations for Washington’s Priority Habitats and Species, Dungeness Crab; (6) all provisions of the Washington Department of Ecology’s and EPA’s Section 401 Water Quality Certifications will be implemented to minimize turbidity and dissolved oxygen impacts, as well as impacts to commercially important species; (7) dredged sediments will remain within the coastal environment, which will allow coastal processes to continue to form habitat for aquatic species and their food sources; (8) existing large woody debris will be stockpiled during construction and placed on the top and landward slope of the restored barrier dune to provide habitat and nutrients for establishing plants and invertebrate species; (9) planting of the barrier dune will occur with native vegetation, but only on the backside of the dune to allow approximately 12 acres of the barren nesting conditions preferred by Western snowy plovers on the front slopes of the dunes; a 20-foot wide bench will be built into the ocean side of the barrier dune to support nesting plovers.

Due to these measures, impacts to these important resources are not anticipated to be significant neither individually, nor cumulatively.

8b. Will your project impact a waterbody or the area around a waterbody? [\[help\]](#)

Yes No

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

Activity causing impact (clear, dredge, fill, pile drive, etc.)	Waterbody name	Impact location ¹	Duration of impact ²	Amount of material to be placed in or removed from waterbody	Area (sq. ft. or linear ft.) of waterbody directly affected
dredging	Pacific Ocean	In waterbody adjacent to shoreline	2 to 3 months	700,000 cubic yards	Approximately 185 acres. Exact dredging footprint to be confirmed prior to construction

¹ 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.

² Indicate the time (in months or years, as appropriate) the waterbody will be measurably impacted by the work. Enter "permanent" if applicable.

8d. 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.

Yes No Not applicable

8e. Summarize what the compensatory mitigation plan is meant to accomplish. Describe how a watershed approach was used to design the plan.

- If you already completed 7j, you do not need to restate your answer here. [\[help\]](#)

Mitigation for initial construction will occur via oyster shell placement on WDFW lands in Willapa Bay to compensate for any loss to Dungeness Crab fishery. The mitigation is planned to be adaptive to best suit the needs of the species and allow for the best available scientific approaches to mitigation to apply, such as estuarine habitat mitigation during subsequent nourishment activities. Please refer to the attached Dungeness Crab Impact Minimization Plan for more information.

8f. For all activities identified in 8c., 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. [\[help\]](#)

The proposed sand borrow site is located in a dynamic benthic sand accretion area approximately 5,000 feet from the project site on the north side of the Willapa Bay North Channel. Construction will require dredging approximately 700,000 cubic yards of sand that will be placed along the crest of the existing eroded barrier dune. No dredged material will be placed within the water.

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

Dredged material will consist of sand pumped from the aquatic borrow site by a large pipeline dredge with a cutter head. Dredge will be operated via barge ship approximately 5,000 feet directly offshore of the disposal site. Benthic sand will be placed along the crest of the existing barrier dune. Once placed on top of the eroding dune, the dredged sand will be graded and planted with native dune grass along the landward side to extend the periodic nourishment interval by stabilizing the sand from wind erosion.

Part 9—Additional Information

Any additional information you can provide helps the reviewer(s) understand your project.

9a. If you have already worked with any government agencies on this project, list them below. [\[help\]](#)

Agency Name	Contact Name	Phone	Most Recent Date of Contact
WA Dept. of Ecology	Lori Ochoa	(360) 407-6926	3 November 2010
EPA	Linda Storm	(206) 553-6384	16 December 2010

9b. Are any of the wetlands or waterbodies identified in Part 7 or Part 8 on the Washington Department of Ecology's 303(d) List? [\[help\]](#)

- **If yes**, list the parameter(s) below.
- If you don't know, use Washington Department of Ecology's Water Quality Assessment tools at: <http://www.ecy.wa.gov/programs/wq/303d/>.

Yes No

Exotic Species (*Spartina alterniflora*) – class 4; Carbaryl – class 2

9c. What U.S. Geological Survey Hydrological Unit Code (HUC) is the project in? [\[help\]](#)

- Go to <http://cfpub.epa.gov/surf/locate/index.cfm> to help identify the HUC.

17100106

9d. What Water Resource Inventory Area Number (WRIA #) is the project in? [\[help\]](#)

- Go to <http://www.ecy.wa.gov/services/gis/maps/wria/wria.htm> to find the WRIA #.

WRIA 24

9e. Will the in-water construction work comply with the State of Washington water quality standards for turbidity? [\[help\]](#)

- Go to <http://www.ecy.wa.gov/programs/wq/swqs/criteria.html> for the standards.

Yes No Not applicable

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: http://www.ecy.wa.gov/programs/sea/sma/laws_rules/173-26/211_designations.html.

Rural Urban Natural Aquatic Conservancy Other _____

9g. What is the Washington Department of Natural Resources Water Type? [\[help\]](#)

- Go to http://www.dnr.wa.gov/BusinessPermits/Topics/ForestPracticesApplications/Pages/fp_watertyping.aspx for the Forest Practices Water Typing System.

S F Np Ns

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

Name of manual:

9i. If you know what the property was used for in the past, describe below. [\[help\]](#)

Estuarine open space

9j. Has a cultural resource (archaeological) survey been performed on the project area? [\[help\]](#)

- If yes, attach it to your JARPA package.

Yes No

9k. 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. [\[help\]](#)

Species	Listing Status	Critical Habitat
Bald Eagle <i>Haliaeetus leucocephalus</i>	Threatened	None
Brown Pelican <i>Pelecanus occidentalis</i>	Endangered	None
Marbled Murrelet <i>Brachyramphus marmoratus</i>	Threatened	Designated (none in project area)
Western Snowy Plover <i>Charadrius alexandrinus nivosus</i>	Threatened	Designated—project area included
Northern Spotted Owl <i>Strix occidentalis caurina</i>	Threatened	Designated (none in project area)
Short-tailed Albatross <i>Phoebastria albatrus</i>	Endangered	None
Coastal-Puget Sound Bull Trout <i>Salvelinus confluentus</i>	Threatened	Designated
Southern Green Sturgeon <i>Acipenser medirostris</i>	Threatened	None
Leatherback Sea Turtle <i>Dermochelys coriacea</i>	Endangered	Designated (none in project area)
Loggerhead Sea Turtle <i>Caretta caretta</i>	Threatened	None
Green Sea Turtle <i>Chelonia mydas</i>	Threatened	Designated (none in project area)
Olive Ridley Sea Turtle <i>Lepidochelys olivacea</i>	Threatened	None
Oregon Silverspot Butterfly <i>Speyeria zerene hippolyta</i>	Endangered	Designated (none in project area)
Steller Sea Lion <i>Eumetopias jubatus</i>	Threatened	Designated (none in project area)
Humpback Whale <i>Megoptera novaeangliae</i>	Endangered	None
Sperm Whale <i>Physeter catodon</i>	Endangered	None
Sei Whale <i>Balaenoptera borealis</i>	Endangered	None
Fin Whale <i>Balaenoptera physalus</i>	Endangered	None
Blue Whale <i>Balaenoptera musculus</i>	Endangered	None
Southern Resident Killer Whale <i>Orcinus orca</i>	Endangered	Designated (none in project area)

91. 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. [\[help\]](#)

Dungeness Crab

Part 10—Identify the Permits You Are Applying For

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

- Online Project Questionnaire at <http://apps.ecy.wa.gov/opas/>.
- Governor’s Office of Regulatory Assistance at (800) 917-0043 or help@ora.wa.gov.

10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [help] <ul style="list-style-type: none">• For more information about SEPA, go to www.ecy.wa.gov/programs/sea/sepa/e-review.html.
<input type="checkbox"/> A copy of the SEPA determination or letter of exemption is included with this application.
<input type="checkbox"/> A SEPA determination is pending with _____ (lead agency). The expected decision date is _____.
<input type="checkbox"/> I am applying for a Fish Habitat Enhancement Exemption. (Check the box below in 10b.) <ul style="list-style-type: none">• Submit the Fish Habitat Enhancement Project form with this application. The form can be found at: http://www.epermitting.wa.gov/site/alias_resourcenter/jarpa_jarpa_form/9984/jarpa_form.aspx.
<input type="checkbox"/> This project is exempt (choose type of exemption below). <ul style="list-style-type: none"><input type="checkbox"/> Categorical Exemption. Under what section of the SEPA administrative code (WAC) is it exempt? _____<input type="checkbox"/> Other: _____
<input type="checkbox"/> SEPA is pre-empted by federal law. [help]
10b. Indicate the permits you are applying for. (Check all that apply.) [help]
STATE/FEDERAL GOVERNMENT
Washington Department of Fish and Wildlife: <input type="checkbox"/> Hydraulic Project Approval (HPA) <input type="checkbox"/> Fish Habitat Enhancement Exemption
Washington Department of Ecology: <input checked="" type="checkbox"/> Section 401 Water Quality Certification
Environmental Protection Agency for work by the Corps on Tribal Lands: <input checked="" type="checkbox"/> Section 401 Water Quality Certification
Washington Department of Natural Resources: <input type="checkbox"/> Aquatic Resources Use Authorization
United States Department of the Army permits (U.S. Army Corps of Engineers): <input type="checkbox"/> Section 404 (discharges into waters of the U.S.) <input type="checkbox"/> Section 10 (work in navigable waters)
United States Coast Guard permits: <input type="checkbox"/> General Bridge Act Permit <input type="checkbox"/> Private Aids to Navigation (for non-bridge projects)

Part 11—Authorizing Signatures

Signatures required before submitting the JARPA package.

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

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.

Authorized Agent

Date

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

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

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 of Regulatory Assistance (ORA). People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call (877) 833-6341.

ORA publication number: ENV-019-09