WASHINGTON STATE
Joint Aquatic Resources Permit Application (JARPA) Form

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

1. Project Name (A name for your project that you create. Examples: Smith's Dock or Seabrook Lane Development) [help][1]
Geotechnical Investigation Access Clearing

Part 2–Applicant

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

2a. Name (Last, First, Middle) and Organization (if applicable)			
Pacific International Terminals, Inc., attn: Skip Sahlin, VP			
2b. Mailing Address (Street or PO Box)			
1131 SW Klickitat Way			
2c. City, State, Zip			
Seattle, Washington 98134			
2d. Phone (1)	**2e.** Phone (2)	**2f.** Fax	**2g.** E-mail
(206) 654-3510	(206) 623-0304	(206) 623-0179	Skip.Sahlin@ssamarine.com

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)			
Mr. Skip Sahlin			
3b. Mailing Address (Street or PO Box)			
1131 SW Klickitat Way			
3c. City, State, Zip			
Seattle, Washington 98134			
3d. Phone (1)	**3e.** Phone (2)	**3f.** Fax	**3g.** E-mail

[1] To 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 .

For other help, contact the Governor's Office of Regulatory Assistance at 1-800-917-0043 or help@ora.wa.gov.

(206) 654-3510	206) 623-0304	(206) 623-0179	Skip.Sahlin@ssamarine.com

Part 4–Property Owner(s)

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 fill out JARPA Attachment A for each additional property owner.

4a. Name (Last, First, Middle) and Organization (if applicable)			
Pacific International Terminals, Inc. , attn: Skip Sahlin, VP			
4b. Mailing Address (Street or PO Box)			
1131 SW Klickitat Way			
4c. City, State, Zip			
Seattle, Washington 98134			
4d. Phone (1)	**4e.** Phone (2)	**4f.** Fax	**4g.** E-mail
(206) 654-3510	(206) 623-0304	(206) 623-0179	skip.sahlin@SSAMarine.com

Part 5–Project Location(s)

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

☐ There are multiple project locations (e.g., linear projects). Complete the section below and use JARPA Attachment B for each additional project location.

5a. Indicate the type of ownership of the property. (Check all that apply.) [help]

☐ State Owned Aquatic Land (If yes or maybe, contact the Department of Natural Resources (DNR) at (360) 902-1100)
☐ Federal
☐ Other publicly owned (state, county, city, special districts like schools, ports, etc.)
☐ Tribal
☒ Private

5b. Street Address (Cannot be a PO Box. If there is no address, provide other location information in 5p.) [help]

4750 Gulf Road - In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Roads. (See **Sheet 1** - Vicinity and **Sheet 2** - Project Area).

5c. City, State, Zip (If the project is not in a city or town, provide the name of the nearest city or town.) [help]

Ferndale, Washington, 98248

5d. County [help]

Whatcom County

5e. Provide the section, township, and range for the project location. [help]

¼ Section	Section	Township	Range
	17, 18, 19	39 North	01 East

5f. Provide the latitude and longitude of the project location. [help]

- Example: 47.03922 N lat. / -122.89142 W long. (NAD 83)

48.52618 N. lat. / -122.434192 W. long. (NAD83)

5g. List the tax parcel number(s) for the project location. [help]

- The local county assessor's office can provide this information.

See **Sheet 3** for locations

Upland Parcels

039011-7473110
039011-7067334
039011-7205467
030911-7067334
030911-7065466
039011-8117050
039011-9424335
039011-9198377
039011-7278062
039011-7278062

Tax parcels contiguous to DNR open water:

039512-4546546
039011-9092500
039011-9172456
039011-9199451
039011-9214451
039011-9252449
039011-9298423
039011-9327425
039011-9349425
039011-9388424
039011-9438360
039011-9454299
039011-9469346

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

Name	Mailing Address	Tax Parcel # (if known)
See **Attachment C** and **Sheet 4**		

5i. List all wetlands on or adjacent to the project location. [help]

A Jurisdictional Determination from the USACE, issued on March 5, 2009, confirmed approximately 530.6 acres of wetlands on the Pacific International Terminals property (see **Sheet 5** – Wetlands, Streams, and Drainages for locations).

Characteristics and Ratings of Wetlands on the Pacific International Terminals Property

		Area by Cowardin[1] Classification				
Wetland Name	Hydrogeomorphic Class	Palustrine Scrub-Shrub (acres)	Palustrine Emergent (acres)	Palustrine Forested (acres)	Rating[2]	Total Area (acres)
1	Flats/Depressional	1.3	5.1	37.8	III	44.2
2	Slope	5.0	11.3	37.0	III	53.2
3	Slope	15.1	72.3	63.2	III	150.7
4A	Slope	2.2	5.0	19.5	III	26.6
4B	Depressional	0.7	0	3.7	III	4.4
4C	Depressional	0.1	0	0.1	III	0.2
4D	Slope	0	0	1.3	III	1.3
4E	Slope	0	0.2	0	III	0.2
4F	Slope	0.3	0.8	0	IV	1.1
5A	Slope	8.6	3.2	83.4	III	95.2
5B	Depressional	0	0	0.1	III	0.1
5C	Slope	0	0	0.2	III	0.2
6	Slope	0	0	36.9	III	36.9
7A	Slope	2.1	3.5	34.5	III	40.1
7B	Depressional	0	0	0.6	III	0.6
8A	Slope	9.8	5.9	9.1	III	24.8
8B	Depressional	0.1	0	0	III	0.1

9A	Slope	6.9	8.6	12.7	III	28.2
10A	Slope	0.5	0.2	3.1	III	3.7
10B	Depressional	0.6	0.3	0.3	III	1.1
11A	Riverine	0	0	3.5	I	3.5
11B	Depressional	<0.1	0	0	III	<0.1
12	Depressional[3]	4.7	0.7	5.8	I	11.2
13A	Riverine	0	0	0.6	I	0.6
13C	Depressional	0	0	<0.1	III	<0.1
13D	Slope	0	0	0.4	III	0.4
13E	Riverine	0	0	0.1	I	0.1
13F	Depressional	0	0	0.6	III	0.6
13G	Depressional	0	0	0.4	III	0.4
14	Depressional	0	0	0.7	III	0.7
Total Wetland		57.9	117.1	355.6		530.6

[1] Cowardin et al. (1979), [2] Hruby (2004), [3] Estuarine, not palustrine wetland

Wetlands on Parcel 14 were delineated in July 2011. A request for a Jurisdictional Determination from the USACE is anticipated to be submitted in September 2011. The delineation indicates that the wetlands on Parcel 14 are a continuation of Wetland 5A from the adjacent parcel. No new wetlands were identified on Parcel 14. As currently delineated, the previous and proposed geotechnical investigation activities occur within the wetland boundary on Parcel 14.

5j. List all waterbodies (other than wetlands) on or adjacent to the project location. [help]

The property is adjacent to the Strait of Georgia.

Stream 1 (WRIA 1 # 01-0100), Stream 2 (WRIA 1 # 01.0101) and unnamed streams (Stream 3 – 7) have been identified in the project area. Streams 1 and 2 flow for the most part in natural watercourses; all others flow in roadside drainages. Other roadside drainages (Numbered 1 through 9) and approximately 6 other agricultural ditches occur throughout the property (see **Sheet 5**).

Streams and their Characteristics in the Gateway Pacific Terminal Watershed

Stream ID	State of Washington Stream Type[1]	Whatcom County Stream Type[2]	Water Flow Characteristic[3]	Location
Stream 1	F (Reach 1) Ns (Reaches 2-5)	HCA 1b	Relatively Permanent Water	First-order stream. Flows mainly south through the project area.
Stream 2	Ns	HCA 1b	Relatively Permanent Water	First-order stream. Flows southwest in the southernmost portion of the project area. Most of stream on adjacent property. Has several small tributaries (not mapped).
Stream 4	Ns	HCA 1c	Relatively Permanent Water	Drainage ditch on the north side of Lonseth Road
Stream 5	Ns	HCA 1c	Relatively Permanent Water	Drainage ditch on the north side of Henry Road
Stream 6	Ns	HCA 1c	Relatively Permanent Water	Drainage ditch on the east side of Gulf Road
Stream 7	Ns	HCA 1c	Relatively Permanent Water	Drainage ditch located between Henry Road and Lonseth Road along the west side of the Custer Spur rail embankment in the Elliot Yard

[1] WAC 222-16-030
[2] Habitat Conservation Area (HCA) HCA 1b - Other fish bearing streams that do not meet the definition of shorelines of the state but have

known or potential use by anadromous or resident fish species. HCA 1c - Non-fish bearing streams are those streams that have no known or potential use by anadromous or resident fish.
[3] All Streams drain to the Strait of Georgia, a Traditional Navigable Water

5k. Is any part of the project area within a 100-year floodplain? [help]

☐ Yes ☒ No ☐ Don't know

5l. Briefly describe the vegetation and habitat conditions on the property. [help]

The project area is comprised of a mixture of pastures, hayfields, mowed utility corridors, red alder forest, and areas of shrubs. Pastures in the project area are grazed seasonally, while hayfields are annually harvested. Areas of both upland and wetland are vegetated with red alder forest with a thick shrub understory. Whatcom County roads cross through the project area. Streams and drainages occur in association with all of the vegetation types and are often in roadside drainages (see **Sheet 5**).

Roads and land uses prohibit undisturbed wildlife corridors and connections to other habitats. However, large forested wetlands with multiple vegetation layers provide numerous habitat niches for a variety of species. Wetland 12, a coastal lagoon, provides the highest habitat functions and coincides with Washington Department of Fish and Wildlife (WDFW) and Whatcom County priority riparian habitats along Stream 1. Particularly in the reaches south of Lonseth Road on Stream 1, riparian vegetation provides a variety of habitat functions.

5m. Describe how the property is currently used. [help]

About 100 acres of the proposed development area is used for agriculture - including pastures and hayfields. The remaining portions are undeveloped. An underground oil pipeline and a Bonneville Power Administration (BPA) transmission line cross the project area approximately north to south. BNSF Railway's Custer Spur line transects the eastern edge of the project area.

5n. Describe how the adjacent properties are currently used. [help]

The project area lies within Whatcom County's Heavy Impact Industrial zone and Urban Growth Area (UGA). BP's Cherry Point Refinery and associated industries lie north and west of the property. The ALCOA-Intalco Works (aluminum plant) lies less than 1 mile to the southeast. Large-lot single-family residences lie to the east. Pasture areas and the Strait of Georgia border the southern property area (see **Sheet 4** - Adjacent Property Owners).

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

There are no functioning buildings or structures on the property at this time. There is an abandoned conveyor trestle-in-ruin at the shoreline and four known foundations-in-ruin in other locations. Existing development within the project area includes County two-lane roadways; ditching, fencing, and short dirt lane access for agriculture; rail gas, and electric utility corridors.

Part 6–Project Description

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

Proposed and completed geotechnical investigation activities were conducted to provide information regarding subsurface conditions that will be critical for design of future development on the property. The geotechnical investigation entails approximately 50 boreholes and approximately 20 cone penetration tests (CPT) to evaluate subsurface soil and groundwater conditions. The locations of the geotechnical testing sites are shown on **Sheets 6 through 10** (Geotechnical Investigation Site Access As-Built Plan).

Completed Work

Fieldwork was initiated on July 7, 2011, and halted on July 22, 2011.

Geotechnical Work

Nineteen (of the 50 planned) boreholes and 19 (of the 20 planned) CPT explorations were completed. Two test pit explorations were also completed.

Access Paths

Access to all borehole locations was completed on July 22, 2011. Land clearing was required to access the borehole and CPT locations. Approximately 7,360 lineal feet of access paths have been cleared in wetland forest and shrub areas. A total of 4.0 acres of impacts have occurred to forest and shrub wetlands, of which 1.1 acres are considered temporary fill from side-casting. The other 2.9 acres of wetland impacts resulted from the access pathways for the geotechnical investigation. As of September 2, 2011, these disturbed upland and wetland areas have been stabilized with soil erosion and sediment control measures.

To prepare access paths in forest and shrub areas, a tracked excavator was used to push over trees, pick up smaller vegetation, and push it to the perimeter of the access path. These access paths are temporary and no improvements were made to create roadways. To allow equipment to access test locations in forested and shrub vegetated areas, access paths approximately 17 feet wide are required to accommodate the equipment and provide safe working clearance.

Work Remaining to be Completed

Access Paths

No additional land clearing activities are necessary to complete the geotechnical investigation.

Geotechnical Work

To conclude the geotechnical investigation, 31 boreholes and one CPT exploration are still required. Several boreholes were in progress at the time work was halted and would need to be completed. At the conclusion of the geotechnical investigation, disturbed wetland and forested areas will be re-planted and restored to pre-investigation conditions. All fill and wetland vegetation disturbance is temporary.

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]

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

☐ Other:

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.

Geotechnical Work

The boreholes and CPT explorations would be advanced with track-mounted equipment, which is approximately 8 feet wide by 25 feet long. Geotechnical boreholes are generally about 8 inches in diameter and extend to depths of 80 to 130 feet. The CPT explorations require pushing a 1.4-inch-diameter rod into the ground to depths up to about 100 feet. There is no 100-year floodplain on the site.

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: July 7, 2011

End date: estimated 8 weeks following receipt of required permits

☐ See JARPA Attachment D

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

The purpose of the geotechnical investigation and associated land clearing is to collect important subsurface data in support of the design of facilities proposed to be constructed in the project area. The subsurface geotechnical data is standard engineering data required to design foundation, structures and site civil works.

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

$250,000

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

The geotechnical investigation plan was designed to avoid and minimize impacts to wetlands, streams, and associated buffers as described below. Areas with unavoidable impacts to wetlands and wetland buffers will be restored to pre-project conditions following the conclusion of the geotechnical investigation.

AVOIDANCE

To avoid wetlands, streams, and buffers and minimize clearing disturbance, access routes were drawn onto base maps and evaluated. It is not practicable to locate the proposed geotechnical boreholes with complete avoidance of wetlands because much of the project area is wetland and geotechnical data is needed for subsurface conditions in those locations. However, to the extent feasible, proposed geotechnical boreholes were located outside of wetland and heavily vegetated areas in order to avoid direct vegetation impacts. When a borehole was located within a wetland, existing roads, pastures and hay fields were used as access routes to the extent possible to minimize vegetation disturbance throughout the property. When a borehole was located in a wetland area, the borehole was placed as close to the wetland edge as feasible. Only when no other alternative could be identified were access routes placed through forested or shrub vegetated wetland areas.

IMPACT MINIMIZATION

To reduce the risk of erosion or sedimentation in the access paths (cleared areas), best management practices (BMPs), including stabilized construction entrances and covering bare soils, have been implemented. Bare soil areas have been covered by hydroseeding. Seed mixes included fast germinating grasses suitable for forest or shrub wetlands. Entrance areas have been stabilized with chipped wood and bark, and check dams have been placed in ditches to capture any potential sediment in stormwater runoff. These erosion control activities were conducted under a Temporary Erosion and Sediment Control (TESC) plan approved by Whatcom County. In addition, a Stormwater Pollution Prevention Plan (SWPPP) was prepared in accordance with Washington Department of Ecology (Ecology) requirements that utilizes the 12 major construction stormwater BMP elements, including: marking the clearing limits, establishing access points, controlling flow rates, installing sediment controls, stabilizing soils, protecting slopes and drain inlets, stabilizing channels and outlets, controlling pollutants and dewatering areas, and maintaining these BMP elements.

7b. Will the project impact wetlands? [help]

☒ Yes ☐ No ☐ Don't know

A total of 4.0 acres of temporary wetland impacts resulted from clearing access paths for the geotechnical investigation and are of two types of impacts: 1) disturbed vegetation, and 2) fill (i.e., root wads and dirt placed in wetlands). No additional land clearing activities are anticipated in order to conclude the geotechnical investigation. **Sheets 6 through 9** show the 25 locations of affected wetland areas. **Sheet 10** presents the total impacts by impact area.

Disturbed Vegetation

The average width of the cleared access paths was 17 feet. The clearing associated with access paths and boreholes resulted in a total of 7,360 linear feet and 125,120 square feet (2.9 acres) of temporary wetland impacts.

Fill

Wetland fill resulted from soil disturbance and side-casted rootwads associated with the clearing activity. These activities resulted in an additional 1.1 acres of temporary wetland fill outside of the cleared access paths. The 1.1 acres is considered temporary fill, as the rootwads will be removed and replaced in the access paths.

The table below shows total wetland impacts by activity.

Details of Wetland Impacts by Activity

Activity	Length (LF)	Average Width (ft)	Area (SF)	Acres
Vegetation Disturbance	7,360	17	125,120	2.9
Fill		Variable	50,107	1.2
Total Wetland Impact Area			**175,227**	**4.0**[1]

[1]Total acres calculated from total area of impacts.

See Section 7h for a listing of the amount of temporary impacts by wetland area.

7c. Will the project impact wetland buffers? [help]

☒ Yes ☐ No ☐ Don't know

Wetland buffers are regulated by local governments in Washington State. Impacts to wetlands buffers are being assessed by Whatcom County, in application for a Critical Areas Permit.

7d. Has a wetland delineation report been prepared? [help]

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

☒ Yes ☐ No

Wetlands on the Pacific International Terminals, Inc. property were delineated and a Jurisdictional Determination from the USACE, issued on March 5, 2009, confirmed approximately 530.6 acres of wetlands on the Pacific International Terminals property (see **Sheet 5** – for locations of wetlands, streams, and drainages in the project area).

A Jurisdictional Determination from the USACE has not been issued for wetland boundaries on Parcel 14. Wetland boundaries were delineated in July 2011, and a request for a Jurisdictional Determination will be submitted in September 2011. The wetlands on Parcel 14 are continuations of wetland boundaries that were previously documented in the 2008 wetland delineation report.

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

Wetlands were rated using the Western Washington Rating System, and forms were submitted as part of the *Wetland Delineation and Determination, Gateway Pacific Terminal,* AMEC, 2008. This report was submitted previously to the USACE.

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 and answer 7g.
- **If No, or Not applicable,** explain below why a mitigation plan should not be required.

☒ Yes ☐ No ☐ Not applicable

The *Critical Areas Study and Mitigation Plan, Geotechnical Investigation Access Clearing, Gateway Pacific Terminal, AMEC, 2011* was submitted to Whatcom County Planning and Development Services on August 23, 2011. This plan is included with the JARPA package, and details the restoration activities to be implemented following the conclusion of the geotechnical investigation.

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

The goal of the proposed mitigation/restoration plan is to restore the temporarily disturbed areas to pre-investigation conditions. Restoration activities will occur onsite in the same watershed in which the impacts occurred.

Restoration Goals

The goal of the restoration plan is to restore the functions of on-site wetlands and wetland buffers to their pre-disturbance condition. 4.0 acres of wetlands will be restored by revegetating 2.9 acres of cleared wetlands, and removing rootwads and soil mounds from 1.1 acres of wetlands that were side-casted during the geotechnical investigation activities.

The specific goals of the proposed restoration are to:

- Restore pre-disturbance wetland hydrologic conditions to all wetland areas by removing fill;
- Re-establish wetland vegetation communities within all wetlands; and
- Re-establish wetland buffer vegetation in disturbed areas.

Restoration Design

The general approach for the restoration design is to remove soil mounds and side-casted root wads from existing wetlands and restore the wetlands and wetland/stream buffers to their pre-existing conditions. The soil mounds will be dispersed within the access paths to restore pre-existing grades, and the rootwads will be sawn from the trunks and placed in divots that were created when the rootwads were removed. Vegetation debris piles will be removed or dispersed to allow those areas to restore naturally. Additional restoration activities include remediating compacted soils, stabilizing soils to reduce erosion, replanting temporarily impacted areas to restore wildlife and water quality functions, and managing invasive plant species. Restoring pre-existing hydrologic and drainage patterns in the wetlands will be closely monitored during restoration activities.

7h. Use the table below to list the type and rating of each wetland impacted; the extent and duration of the impact; and the type and amount of mitigation proposed. Or if you are submitting a mitigation plan with a similar table, you can state (below) where we can find this information in the plan. [help]

Wetlands already impacted by the land clearing activities for the geotechnical investigation are shown in the table below. No additional land clearing activities are required to complete the geotechnical investigation. The amount of impacts to each wetland unit were calculated by different wetland impact areas as shown on **Sheets 6-9**, and presented in the table on **Sheet 10**.

All 4.0 acres of wetland impacts will be restored to pre-project conditions as described in the *Critical Areas Study and Mitigation Plan, Geotechnical Investigation Access Clearing, Gateway Pacific Terminal, AMEC, 2011*. Providing that this application is approved by September 22, 2011, the 1.1 acres of temporary fill will not be left in place for more than 90 days starting from July 22, 2011.

Details of Wetland Impacts by Wetland Unit

Wetland Unit Number	Hydrogeomorphic Class	Cowardin Class	Wetland Rating	Area (SF)	Acres
1	Flats/Depressional	PFO	III	29,533	0.7
2	Slope	PFO	III	696	0.1
3	Slope	PFO	III	14,167	0.3
5B/5C	Depressional/Slope	PFO	III	37,200	0.8
6	Slope	PFO	III	64,766	1.5
7A	Slope	PFO	III	12,521	0.3
8A	Slope	PFO/PSS	III	2,877	0.1
9A	Slope	PFO/PSS	III	13,197	0.3
10A	Slope	PFO	III	270	<0.1
Total Wetland Impact Area				**175,227**	**4.0[1]**

[1]Of the 4.0 acres, 1.1 acres are considered temporary fill.

Sheets 6 through 9 detail the location of wetland impacts.

7i. For all filling activities identified in 7h., 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]

No permanent filling activities are proposed or have been conducted in association with the geotechnical investigation land clearing. Temporary fill has been placed in 1.1 acres of wetlands due to side cast rootwads and root mats with soil attached. These areas will be restored to pre-project conditions following the conclusion of the geotechnical investigation.

7j. For all excavating activities identified in 7h., describe the excavation method, type and amount of material in cubic yards you will remove, and where the material will be disposed. [help]

No permanent excavation activities are proposed in wetland areas. Two test pits were dug to depths of approximately 15 feet for quality control purposes to verify near surface soil profiles, and have been backfilled to pre-existing surface elevations. These tests pits occurred within the cleared paths for the geotechnical investigation activities to minimize project impacts.

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

No direct impacts to waterbodies on the project site resulted from the land clearing or geotechnical investigation activities and no impacts are proposed to complete the investigation. Stormwater BMPs have been implemented at access points that cross roadside ditches as proactive measures to protect the aquatic environment downstream.

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

☒ Yes ☐ No

No direct or permanent impacts to waterbodies have been conducted or are proposed to complete the geotechnical investigation. Land clearing activities have occurred within stream buffers regulated by Whatcom

County, and the soils stabilized via hydroseeding. These areas will be revegetated following the conclusion of the geotechnical investigation.

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 ☐ Not applicable

The *Critical Areas Study and Mitigation Plan, Geotechnical Investigation Access Clearing, Gateway Pacific Terminal, AMEC, 2011* was submitted to Whatcom County Planning and Development Services on August 23, 2011. This plan addresses the restoration of stream buffer areas in accordance with WCC 16.16, which dictates the mitigation standards for the restoration of these areas.

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]

See 7g

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

No direct impacts to waterbodies within the project area are anticipated as a result of the completed and proposed activities.

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 material is proposed to be discharged into any waterbodies on the project site.

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 excavating or dredging activities are proposed for waterbodies on the project site for the geotechnical investigation.

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.

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
Whatcom County	Tyler Schroeder	360) 676-6907	September 2011
Whatcom County	Bryan Sehmel	(360) 676-6907	August 2011
USACE	Randel Perry	(360) 734-3119	September 2011
WDFW	Brian Williams	(360) 466-4345	July 2011
DNR	Dave Klingbeil	(360) 856-3500	August 2011
Dept. of Ecology	Kurt Baumgarten	(360) 715-5210	August 2011
Dept. of Ecology	Susan Meyer	(425) 649-7168	August 2011

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

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.

17110002

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 #01

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 – *Cherry Point Management Unit*

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.

☒ 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

Name of manual: *Stormwater Management Manual for Western Washington*, Ecology, 2005

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

The property had been used by native Americans and by homesteaders of European descent. Archaeological studies indicate that portions of the property have been used by a group of Salish Indians, known by the post-reservation name of Lummi, for at least 3,000 years. Beginning in the late 1800s, the site was logged and homesteaded. Farming activities continued through the mid-1940s, when large portions of land locally, including this property, were acquired for industrial use. Foundations-in-ruin are mainly old home sites. Near Gulf Road, a trestle-in-ruin is apparently from a historic gravel loading operation. The present condition of the property, with open fields and wooded areas, appears to have been stable for at least the last 50 years.

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

- **If yes**, attach it to your JARPA package.

☒ Yes ☐ No

The *Gateway Pacific Terminal Archaeological Findings Report*, AMEC, 2010 was submitted in February 2011 to the USACE for Section 106 coordination.

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]

Common Name:	Scientific Name:
Bull trout	*Salvelinus confluentus*
Marbled murrelet	*Brachyramphus marmoratus*
Chinook salmon	*Oncorhynchus tshawytscha*
Steelhead trout	*Oncorhynchus mykiss*
Coho Salmon	*Oncorhynchus kisutch*
Humpback whale	*Megaptera novaeangliae*
Killer whale	*Orcinus orca*
Steller sea lion	*Eumetopias jubatus*
Leatherback sea turtle	*Dermochelys coriacea*
Bocaccio	*Sebastes paucispinis*
Canary rockfish	*Sebastes pinniger*
Yelloweye rockfish	*Sebastes ruberrimus*

9l. 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]

Wetlands, Streams, Shoreline bluff, and Riparian areas are considered Priority Habitats by WDFW on the property.

Common Name:	Scientific Name:
Pacific herring	*Clupea pallasi*
Surfsmelt/longfin smelt	*Hypomesus pretiosus*
Pacific sand lance	*Ammodytes hexapterus*
Bull trout	*Salvelinus confluentus*
Chinook salmon	*Oncorhynchus tshawytscha*
Chum salmon	*Oncorhynchus keta*
Coastal Res./Searun cutthroat	*Oncorhynchus clarki clarki*
Coho salmon	*Oncorhynchus kisutch*
Kokanee/sockeye salmon	*Oncorhynchus nerka*
Pink salmon	*Oncorhynchus gorbuscha*
Rainbow trout/steelhead	*Onchorhynchus mykiss*
Pacific cod	*Gadus macrocephalus*
Pacific hake	*Merluccius productus*
Walleye pollock	*Theragra chalcogramma*
Black rockfish	*Sebastes melanops*
Bocaccio rockfish	*Sebastes paucispinis*
Brown rockfish	*Sebastes auriculatus*
Canary rockfish	*Sebastes pinniger*
Copper rockfish	*Sebastes caurinus*
Greenstriped rockfish	*Sebastes elongates*
Quillback rockfish	*Sebastes maliger*
Redstripe rockfish	*Sebastes prioriger*
Yelloweye rockfish	*Sebastes reuberrimus*
Yellowtail rockfish	*Sebastes flavidus*
Lingcod	*Ophiodon elongatus*
English sole	*Parophrys vetulus*
Rock sole	*Lepidopsetta bilineata*
Pinto abalone	*Haliotis kamtschatkana*
Butter clam	*Saxidomus giganteus*
Native littleneck clam	*Protothaca abrupt*

Dungeness crab	*Cancer magister*
Pandalid shrimp	*Pandalus* spp.
Red urchin	*Strongylocentrotus franciscanus*
Dall's porpoise	*Phocoenoides dalli*
Gray whale	*Eschrichtius robustus*
Harbor seal	*Phoca vitulina*
Orca (Southern Resident killer whale)	*Orcinus orca*
Pacific harbor porpoise	*Phocoena phocoena*
Common loon	*Gavia immer*
Western grebe	*Aechmophorus occidentalis*
Great blue heron	*Ardea herodiax*
Harlequin duck	*Histrionicus histrionicus*
Bald eagle	*Haliaeetus leucocephalus*
Merlin	*Falco columbarius*
Pileated woodpecker	*Dryocopus pileatus*

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.ecy.wa.gov/opas/.
- Governor's Office of Regulatory Assistance at (800) 917-0043 or help@ora.wa.gov.
- For a list of agency addresses to send your application, click on the "where to send your completed JARPA" at http://www.epermitting.wa.gov.

10a. Compliance with the State Environmental Policy Act (SEPA). (Check all that apply.) [help]

- For more information about SEPA, go to www.ecy.wa.gov/programs/sea/sepa/e-review.html.

☒ A copy of the SEPA determination or letter of exemption is included with this application.

☐ A SEPA determination is pending with _____ (lead agency). The expected decision date is _____.

☐ 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 ☐ Critical Areas Ordinance ☐ Major Project Permit

☒ Land Disturbance

STATE GOVERNMENT

Washington Department of Fish and Wildlife:

☐ Hydraulic Project Approval (HPA) ☐ Fish Habitat Enhancement Exemption

Washington Department of Ecology:

☐ Section 401 Water Quality Certification

Washington Department of Natural Resources:

☐ Aquatic Resources Use Authorization

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)

Part 11–Authorizing Signatures

Signatures are required before submitting the JARPA package. The JARPA package includes the JARPA form, project plans, photos, etc.

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)

Skip Sahlin		13 September 2011
Applicant Printed Name	Applicant Signature	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 Printed Name	Authorized Agent Signature	Date

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

Not required if project is on existing rights-of-way or easements.

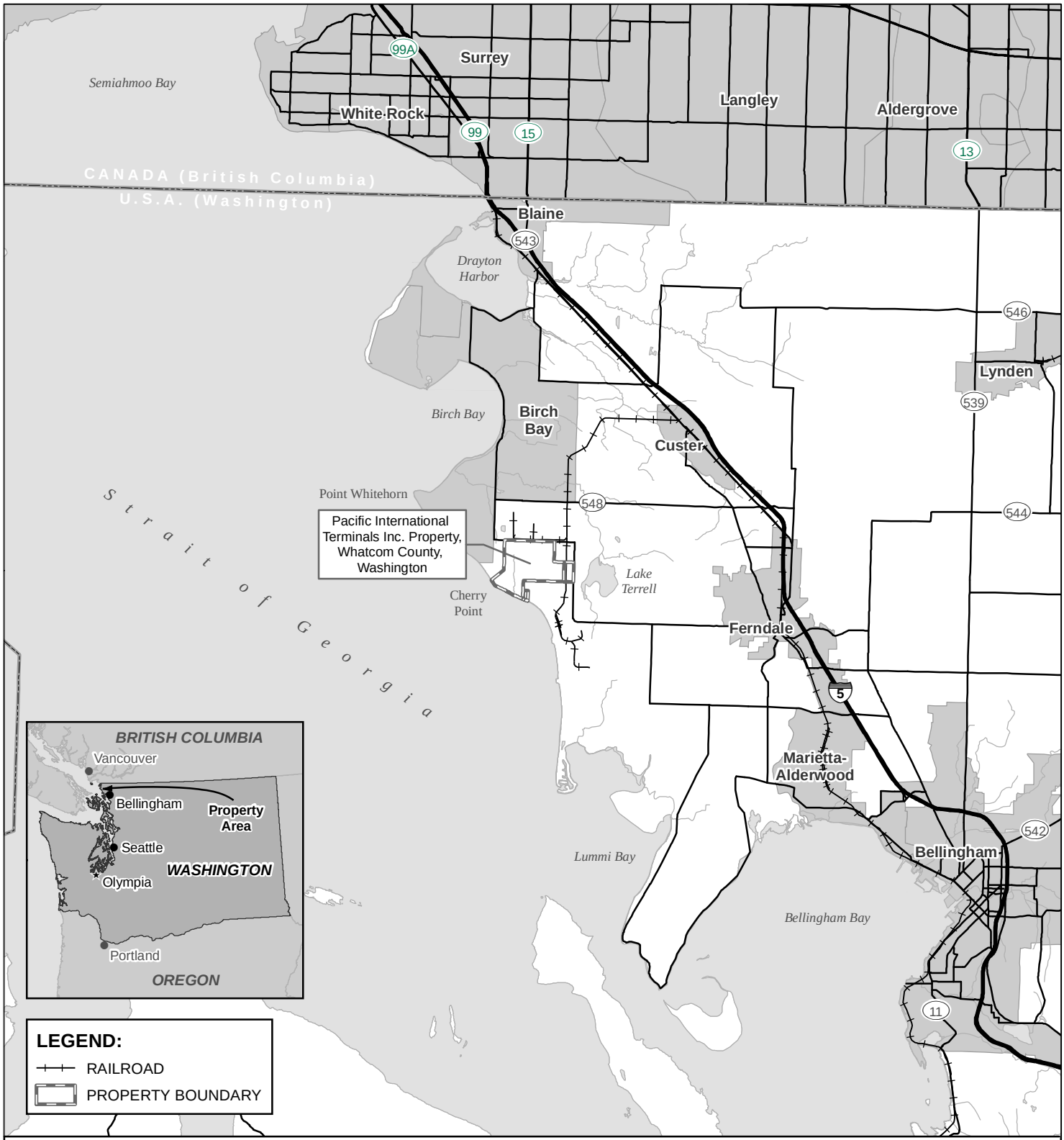
I consent to the permitting agencies entering the property where the project is located to inspect the project site or any work. These inspections shall occur at reasonable times and, if practical, with prior notice to the landowner.

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 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



NOTE: Not for construction, for agency review only. No existing structures on site currently.

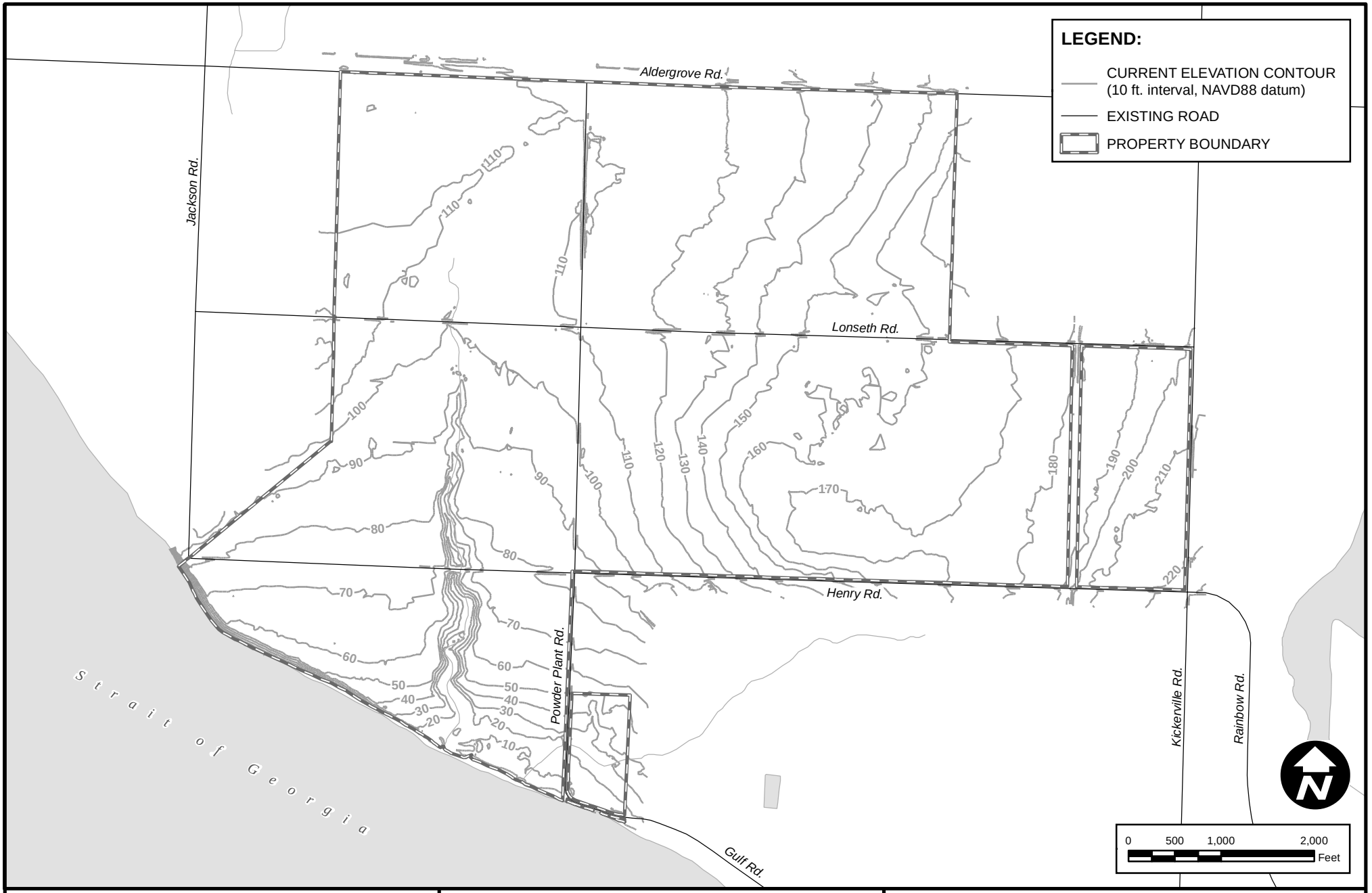
PROJECT AREA:
48° 52' 6.18 N
122° 43' 41.92 W

0 1 2 4 Miles

N

PURPOSE: Subsurface data collection.	APPLICANT REFERENCE: NWS-2008-260	PROPOSED: Geotechnical investigation of property.
DATUM: NAD83	LOCATION: In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington	IN: Eastern Shore of Strait of Georgia NEAR/AT: Ferndale COUNTY: Whatcom STATE: WA APPLICATION BY: Pacific International Terminals, Inc. SHEET: 1 of 10
ADJACENT PROPERTY OWNERS: See JARPA Attachment C		DATE: September 2011

K:\AMEC US OFFICES\KIRKLAND\15338-0\15338C\T-07-03 - Geotechnical Investigation\JARPA\Figure 1 - Vicinity Map.mxd - stephane.descombes - 9/12/2011 - 11:15:23 AM



PURPOSE: Subsurface data collection.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See JARPA Attachment C

APPLICANT REFERENCE: NWS-2008-260

LOCATION:
In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington

NOTE: Not for construction, for agency review only. No existing structures on site currently.

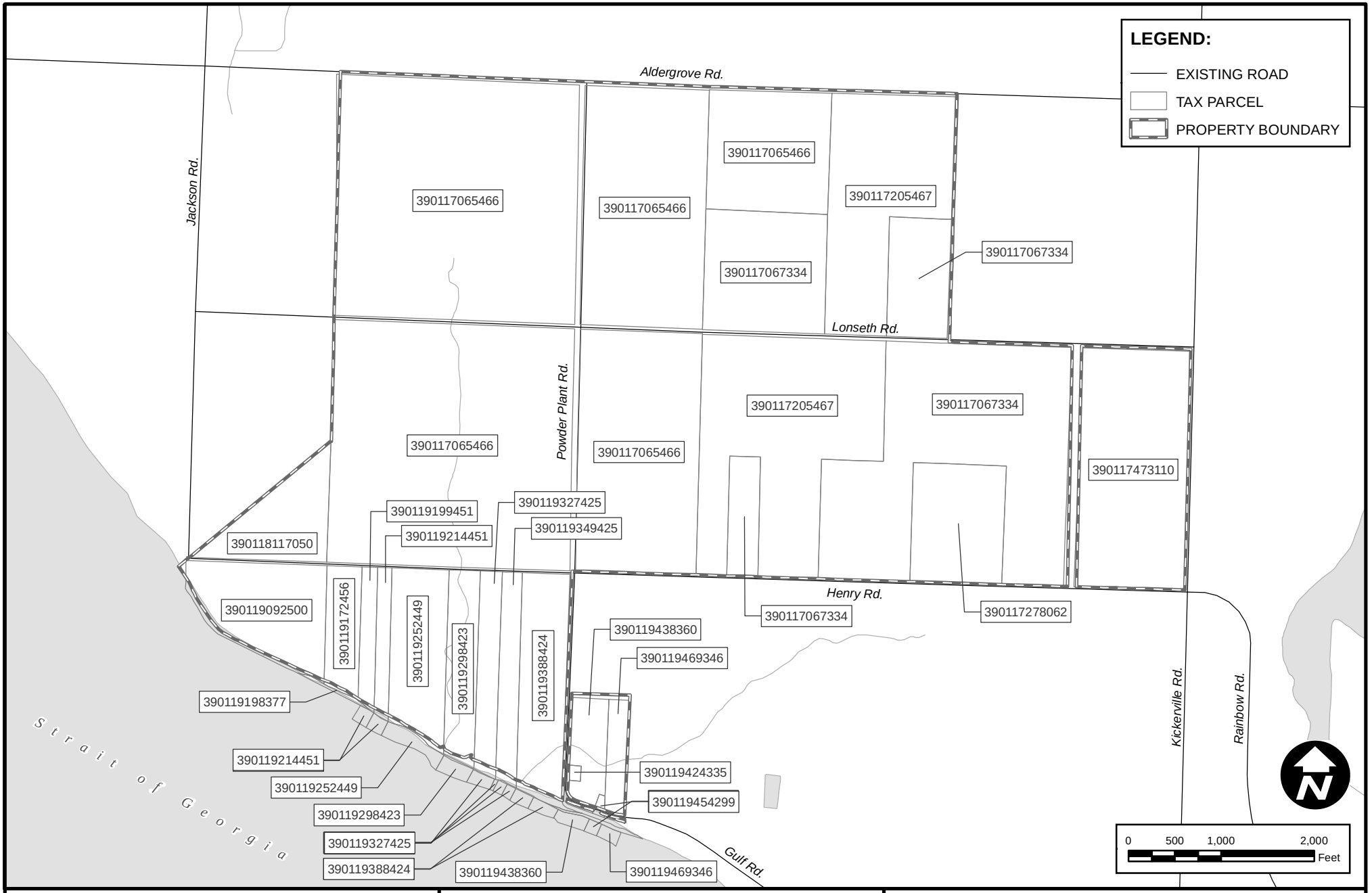
PROJECT AREA:
48° 52' 6.18 N
122° 43' 41.92 W

PROPOSED: Geotechnical investigation of property.

IN: Eastern Shore of Strait of Georgia
NEAR/AT: Ferndale
COUNTY: Whatcom STATE: WA
APPLICATION BY: Pacific International Terminals, Inc.
SHEET: 2 of 10

DATE: September 2011

K:\AMEC US OFFICES\KIRKLAND\15338-0\15338C\T-07-03 - Geotechnical Investigation\JARPA\Figure 2 - Project Site.mxd - stephane.descombes - 9/12/2011 - 11:19:23 AM



PURPOSE: Subsurface data collection.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See JARPA Attachment C

Source: Tax Parcel data obtained from Whatcom County Assessor's Office and is current as of 02/09/2011.

APPLICANT REFERENCE: NWS-2008-260

LOCATION:
In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington

NOTE: Not for construction, for agency review only. No existing structures on site currently.

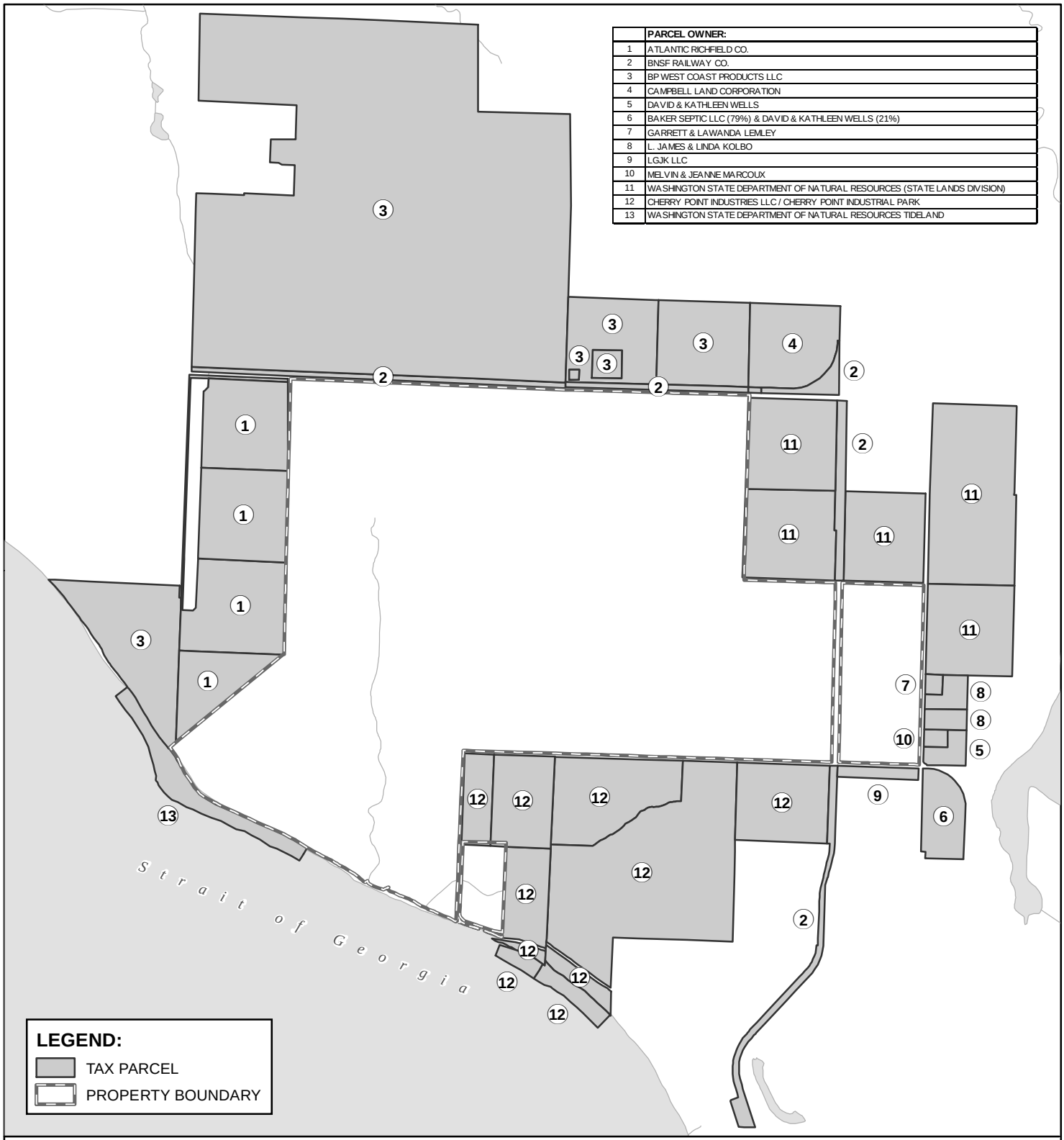
PROJECT AREA:
48° 52' 6.18 N
122° 43' 41.92 W

PROPOSED: Geotechnical investigation of property.

IN: Eastern Shore of Strait of Georgia
NEAR/AT: Ferndale
COUNTY: Whatcom STATE: WA
APPLICATION BY: Pacific International Terminals, Inc.
SHEET: 3 of 10

DATE: September 2011

K:\AMEC US OFFICES\KIRKLAND\15338-0\15338C\T-07-03 - Geotechnical Investigation\JARPA\Figure 3 - Tax Parcels.mxd - stephane.descombes - 9/12/2011 - 11:20:32 AM



	PARCEL OWNER:
1	ATLANTIC RICHFIELD CO.
2	BNSF RAILWAY CO.
3	BP WEST COAST PRODUCTS LLC
4	CAMPBELL LAND CORPORATION
5	DAVID & KATHLEEN WELLS
6	BAKER SEPTIC LLC (79%) & DAVID & KATHLEEN WELLS (21%)
7	GARRETT & LAWANDA LEMLEY
8	L. JAMES & LINDA KOLBO
9	LGJK LLC
10	MELVIN & JEANNE MARCOUX
11	WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES (STATE LANDS DIVISION)
12	CHERRY POINT INDUSTRIES LLC / CHERRY POINT INDUSTRIAL PARK
13	WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES TIDELAND

NOTE: Not for construction, for agency review only. No existing structures on site currently.

PROJECT AREA:
48° 52' 6.18 N
122° 43' 41.92 W

0 1,000 2,000 4,000 Feet

PURPOSE: Subsurface data collection.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See above

Source: Tax Parcel data obtained from Whatcom County Assessor's Office and is current as of 02/09/2011.
Tideland data obtained from Washington Department of Natural Resources on 11/03/2010: **http://fortress.wa.gov/dnr/app1/dataweb/dmmatrix.html**

APPLICANT REFERENCE: NWS-2008-260

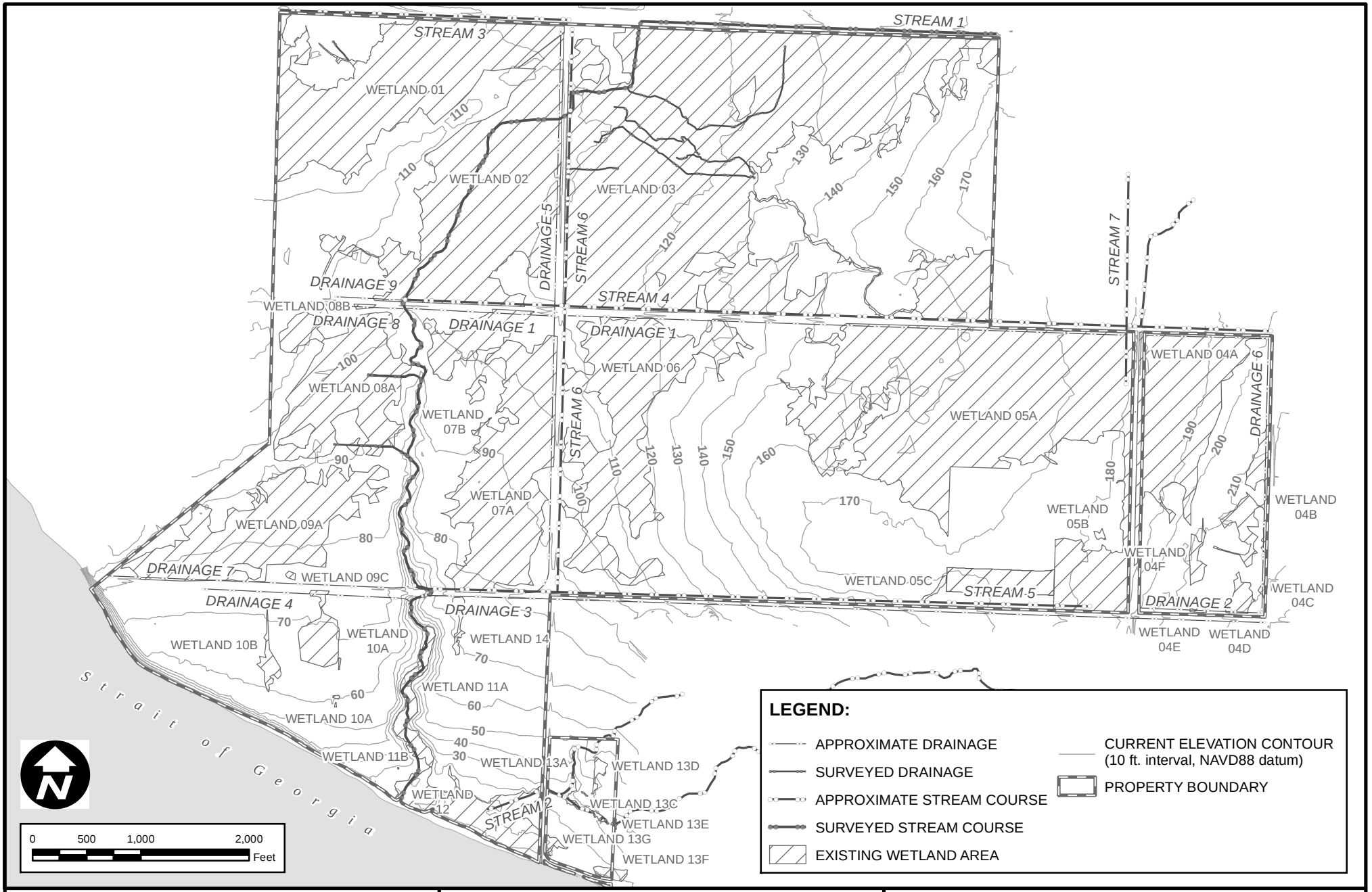
LOCATION:
In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington

PROPOSED: Geotechnical investigation of property.

IN: Eastern Shore of Strait of Georgia
NEAR/AT: Ferndale
COUNTY: Whatcom STATE: WA
APPLICATION BY: Pacific International Terminals, Inc.
SHEET: 4 of 10

DATE: September 2011

K:\AMEC US OFFICES\KIRKLAND\15338-0\15338C\T-07-03 - Geotechnical Investigation\JARPA\Figure 4 - Adjacent Land Owners.mxd - stephane.descombes - 9/12/2011 - 11:22:18 AM



PURPOSE: Subsurface data collection.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See JARPA Attachment C

APPLICANT REFERENCE: NWS-2008-260

LOCATION:
In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington

NOTE: Not for construction, for agency review only. No existing structures on site currently.

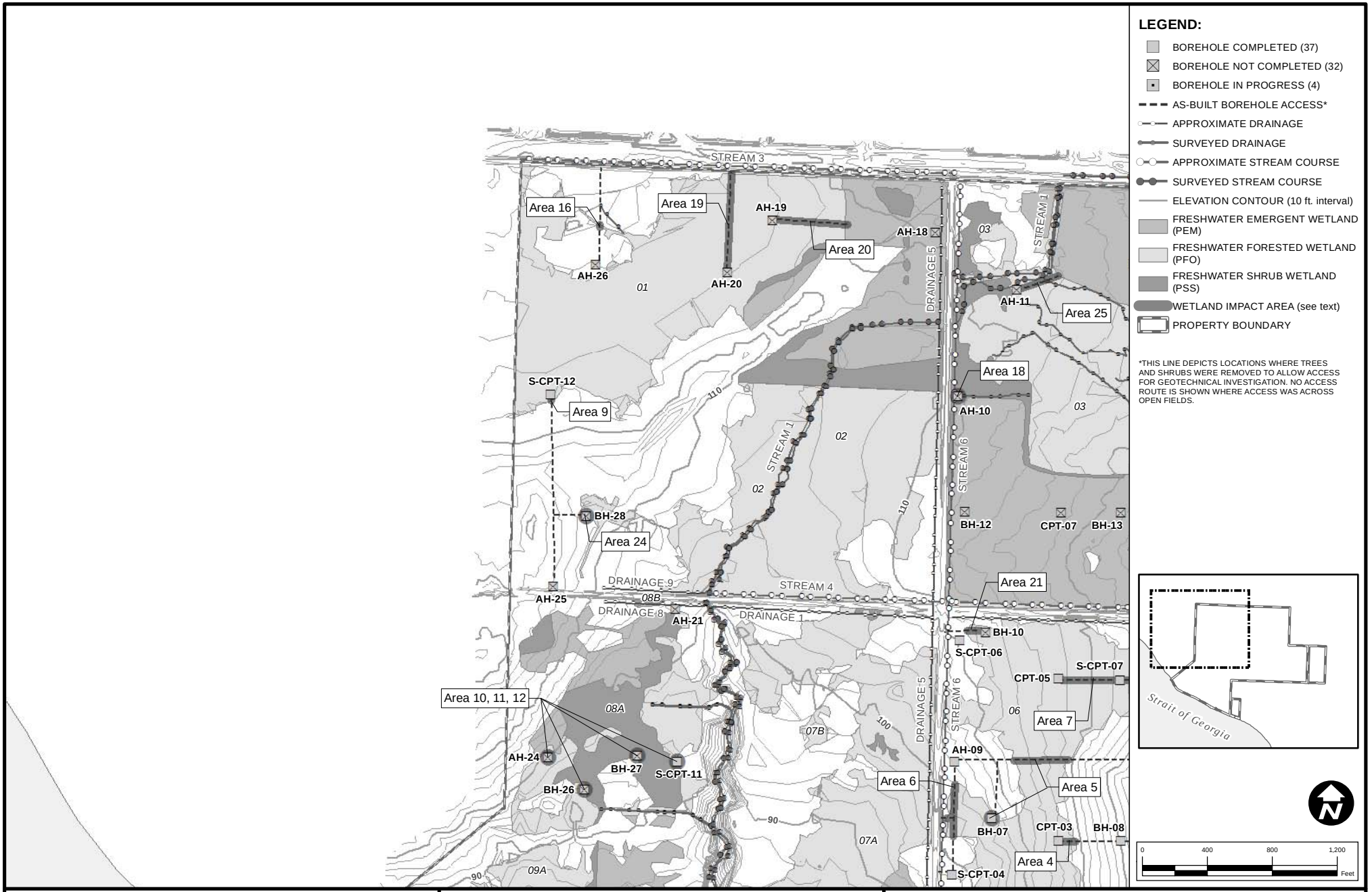
PROJECT AREA:
48° 52' 6.18 N
122° 43' 41.92 W

PROPOSED: Geotechnical investigation of property.

IN: Eastern Shore of Strait of Georgia
NEAR/AT: Ferndale
COUNTY: Whatcom STATE: WA
APPLICATION BY: Pacific International Terminals, Inc.
SHEET: 5 of 10

DATE: September 2011

K:\AMEC US OFFICES\KIRKLAND\15338-0\15338C\T-07-03 - Geotechnical Investigation\JARPA\Figure 5 - Wetlands.mxd - stephane.descombes - 9/12/2011 - 11:24:01 AM



PURPOSE: Subsurface data collection.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See JARPA Attachment C

APPLICANT REFERENCE: NWS-2008-260

LOCATION:
In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington

NOTE: Not for construction, for agency review only. No existing structures on site currently.

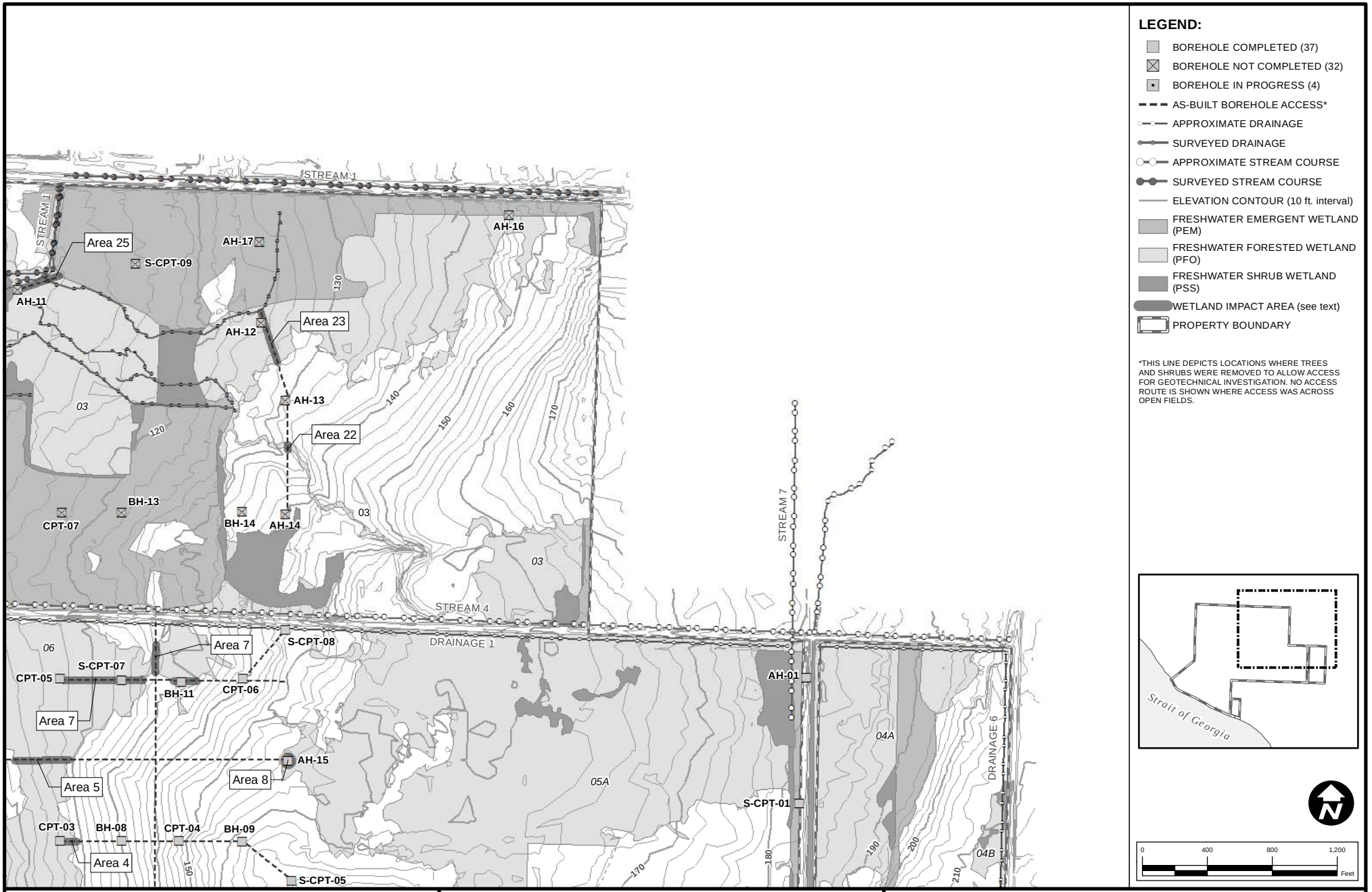
PROJECT AREA:
48° 52' 6.18 N
122° 43' 41.92 W

PROPOSED: Geotechnical investigation of property.

IN: Eastern Shore of Strait of Georgia
NEAR/AT: Ferndale
COUNTY: Whatcom STATE: WA
APPLICATION BY: Pacific International Terminals, Inc.
SHEET: 6 of 10

DATE: September 2011

K:\AMEC US OFFICES\KIRKLAND\15338-0\15338C\T-07-03 - Geotechnical Investigation\JARPA\Figure 6 - Site Access Impact Areas.mxd - stephane.descombes - 9/12/2011 - 11:25:41 AM



PURPOSE: Subsurface data collection.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See JARPA Attachment C

APPLICANT REFERENCE: NWS-2008-260

LOCATION:
In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington

NOTE: Not for construction, for agency review only. No existing structures on site currently.

PROJECT AREA:
48° 52' 6.18 N
122° 43' 41.92 W

PROPOSED: Geotechnical investigation of property.

IN: Eastern Shore of Strait of Georgia
NEAR/AT: Ferndale
COUNTY: Whatcom STATE: WA
APPLICATION BY: Pacific International Terminals, Inc.
SHEET: 7 of 10

DATE: September 2011

K:\AMEC US OFFICES\KIRKLAND\15338-0\15338C\T-07-03 - Geotechnical Investigation\JARPA\Figure 7 - Site Access Impact Areas.mxd - stephane.descombes - 9/12/2011 - 11:27:05 AM

LEGEND:

- BOREHOLE COMPLETED (37)
- BOREHOLE NOT COMPLETED (32)
- BOREHOLE IN PROGRESS (4)
- AS-BUILT BOREHOLE ACCESS*
- APPROXIMATE DRAINAGE
- SURVEYED DRAINAGE
- APPROXIMATE STREAM COURSE
- SURVEYED STREAM COURSE
- ELEVATION CONTOUR (10 ft. interval)
- FRESHWATER EMERGENT WETLAND (PEM)
- FRESHWATER FORESTED WETLAND (PFO)
- FRESHWATER SHRUB WETLAND (PSS)
- WETLAND IMPACT AREA (see text)
- PROPERTY BOUNDARY

*THIS LINE DEPICTS LOCATIONS WHERE TREES AND SHRUBS WERE REMOVED TO ALLOW ACCESS FOR GEOTECHNICAL INVESTIGATION. NO ACCESS ROUTE IS SHOWN WHERE ACCESS WAS ACROSS OPEN FIELDS.

PURPOSE: Subsurface data collection.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See JARPA Attachment C

APPLICANT REFERENCE: NWS-2008-260

LOCATION:
In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington

NOTE: Not for construction, for agency review only. No existing structures on site currently.

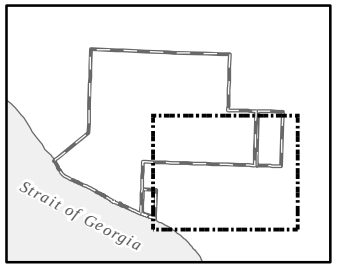
PROJECT AREA:
48° 52' 6.18 N
122° 43' 41.92 W

PROPOSED: Geotechnical investigation of property.

IN: Eastern Shore of Strait of Georgia
NEAR/AT: Ferndale
COUNTY: Whatcom STATE: WA
APPLICATION BY: Pacific International Terminals, Inc.
SHEET: 8 of 10

DATE: September 2011

K:\AMEC US OFFICES\KIRKLAND\15338-0\15338C\T-07-03 - Geotechnical Investigation\JARPA\Figure 8 - Site Access Impact Areas.mxd - stephane.descombes - 9/12/2011 - 11:29:20 AM



LEGEND:

- BOREHOLE COMPLETED (37)
- BOREHOLE NOT COMPLETED (32)
- BOREHOLE IN PROGRESS (4)
- AS-BUILT BOREHOLE ACCESS*
- APPROXIMATE DRAINAGE
- SURVEYED DRAINAGE
- APPROXIMATE STREAM COURSE
- SURVEYED STREAM COURSE
- ELEVATION CONTOUR (10 ft. interval)
- FRESHWATER EMERGENT WETLAND (PEM)
- FRESHWATER FORESTED WETLAND (PFO)
- FRESHWATER SHRUB WETLAND (PSS)
- WETLAND IMPACT AREA (see text)
- PROPERTY BOUNDARY

*THIS LINE DEPICTS LOCATIONS WHERE TREES AND SHRUBS WERE REMOVED TO ALLOW ACCESS FOR GEOTECHNICAL INVESTIGATION. NO ACCESS ROUTE IS SHOWN WHERE ACCESS WAS ACROSS OPEN FIELDS.

0 400 800 1,200 Feet

PURPOSE: Subsurface data collection.

DATUM: NAD83

ADJACENT PROPERTY OWNERS: See JARPA Attachment C

APPLICANT REFERENCE: NWS-2008-260

LOCATION:
In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington
NOTE: Not for construction, for agency review only. No existing structures on site currently.

PROJECT AREA:
48° 52' 6.18 N
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PROPOSED: Geotechnical investigation of property.

IN: Eastern Shore of Strait of Georgia
NEAR/AT: Ferndale
COUNTY: Whatcom STATE: WA
APPLICATION BY: Pacific International Terminals, Inc.
SHEET: 9 of 10

DATE: September 2011

K:\AMEC US OFFICES\KIRKLAND\15338-0\15338C\T-07-03 - Geotechnical Investigation\JARPA\Figure 9 - Site Access Impact Areas.mxd - stephane.descombes - 9/12/2011 - 11:31:34 AM

Table 1 Details of Forested Wetland and Shrub Clearing and Debris Piles

Wetland Impact Area	Wetland Unit	Length (LF)	Miles	Average Width	Area (SF)	Acres
Wetland Impact Area 1	5B/5C	1,488	0.3	25	37,200	0.9
Wetland Impact Area 2	6	251	<0.1	24	6,024	0.1
Wetland Impact Area 3	6	809	0.2	25	20,225	0.5
Wetland Impact Area 4	6	82	<0.1	25	2,050	<0.1
Wetland Impact Area 5	6	339	0.1	23	7,797	0.2
Wetland Impact Area 6	6	367	0.1	18	6,606	0.2
Wetland Impact Area 7	6	812	0.2	22	17,864	0.4
Wetland Impact Area 8	6	48	<0.1	42	2,016	<0.1
Wetland Impact Area 9	1	33	<0.1	35	1,155	<0.1
Wetland Impact Area 10	8A	45	<0.1	30	1,350	<0.1
Wetland Impact Area 11	8A	*	*	*	150	<0.1
Wetland Impact Area 12	8A	51	<0.1	27	1,377	<0.1
Wetland Impact Area 13	7A	659	0.1	19	12,521	0.3
Wetland Impact Area 14	9A	409	0.1	24	9,816	0.2
Wetland Impact Area 15	9A	161	<0.1	21	3,381	0.1
Wetland Impact Area 16	1	12	<0.1	23	276	<0.1
Wetland Impact Area 17	10A	*	*	*	270	<0.1
Wetland Impact Area 18	3	*	*	*	110	<0.1
Wetland Impact Area 19	1	605	0.1	29	17,545	0.4
Wetland Impact Area 20	1	459	0.1	23	10,557	0.2
Wetland Impact Area 21	6	78	<0.1	28	2,184	0.1
Wetland Impact Area 22	3	32	<0.1	29	928	<0.1
Wetland Impact Area 23	3	333	0.1	26	8,658	0.2
Wetland Impact Area 24	2	24	<0.1	29	696	<0.1
Wetland Impact Area 25	3	263	<0.1	17	4471	0.1
Total Wetland Impact Area		**7,360**	**1.4****		**175,227**	**4.0****

* Divots and uprooted trees were not contiguous impacts, and thus each feature was measured independently and true area calculated.

** Amount of miles and acres calculated from Total Length (LF) and Total Area (SF), respectively.

PURPOSE: Subsurface data collection. DATUM: ADJACENT PROPERTY OWNERS: See JARPA Attachment C	APPLICANT REFERENCE: NWS-2008-260 LOCATION: In the vicinity of Henry Road, Lonseth Road, Aldergrove Road, Powder Plant Road, and Gulf Road, Whatcom County, Washington	PROPOSED: Geotechnical investigation of property. IN: Eastern Shore of Strait of Georgia NEAR/AT: Ferndale COUNTY: Whatcom STATE: WA APPLICATION BY: Pacific International Terminals, Inc. SHEET: 10 of 10 DATE: September 2011

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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): _____

_____

TO BE COMPLETED BY APPLICANT [help]

Project Name: _____

JARPA Attachment A-1:
For additional property owner(s) [help]

Use this attachment only if you have more than one property owner.
Complete one attachment for each additional property owner impacted by the project.
Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

4a. Name (Last, First, Middle) and Organization (if applicable)			
Washington Department of Natural Resources; Contact Terry Carten			
4b. Mailing Address (Street or PO Box)			
919 North Township Street			
4c. City, State, Zip			
Sedro Woolley, Washington 98284-9384			
4d. Phone (1)	**4e.** Phone (2)	**4f.** Fax	**4g.** E-mail
(360) 854-2846	( )	(360) 856-2150	terry.carten@dnr.wa.gov
Address or tax parcel number of property you own:			
Washington Department of Natural Resources – State-owned property			
Signature of Property Owner			
_____ Printed Name		_____ Signature	

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-020-09

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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): _____

_____

TO BE COMPLETED BY APPLICANT [help]

Project Name: _____

JARPA Attachment A-2:
For additional property owner(s) [help]

Use this attachment only if you have more than one property owner.
Complete one attachment for each additional property owner impacted by the project.
Signatures of property owners are not needed for repair or maintenance activities on existing rights-of-way or easements.

Use black or blue ink to enter answers in white spaces below.

4a. Name (Last, First, Middle) and Organization (if applicable)			
Watts Family Partnership			
4b. Mailing Address (Street or PO Box)			
300 Highland Drive			
4c. City, State, Zip			
Bellingham, Washington 98225-5416			
4d. Phone (1)	**4e.** Phone (2)	**4f.** Fax	**4g.** E-mail
	( )		
Address or tax parcel number of property you own:			
390117278062			
Signature of Property Owner			
Printed Name		Signature	

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ORA publication number: ENV-020-09

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US Army Corps of Engineers ®
Seattle District

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

AGENCY USE ONLY

Date received:

Agency reference #: _____

Tax Parcel #(s): _____

_____

TO BE COMPLETED BY APPLICANT [help]

Project Name: _____

Location Name (if applicable):_____

_____

JARPA Attachment C: Contact information for adjoining property owners. [help]

Use this attachment only if you have more than four adjoining property owners.

Use black or blue ink to enter answers in white spaces below.

5h. Contact information for all adjoining property owners. [help]

Name	Mailing Address	Tax Parcel # (if known)
Atlantic Richfield Company (1)	PO Box 512485, Los Angeles, CA 90051-0485	390118084466, 390118086345, 390118088200, 390118052092
Baker Septic (6)	PO Box 2128 Ferndale, WA 98248-2128	390121038472
BNSF Railway Company (2)	PO Box 961089 Fort Worth, TX 76161-0089	390120388243, 390117403017, 390108384026, 390107267010, 390107267010
BP West Coast Products LLC (3)	PO Box 5015, Buena Park, CA 90622-5015	395113488166, 390107317235, 390108071094, 390108018023, 390108059042, 390108204081
Campbell Land Corporation (4)	Attn: Herbert A Davis 6568 Lambert Crest Delta, BC V4E 1R8 Canada	390108326085
David and Kathleen Wells (5)	P.O. Box 3104 Ferndale, WA 98248-3104	390116036016

Garrett and Lawanda Lemley (7)	6188 Kickerville Road Ferndale, WA 98248-9617	390116018121
L. James and Linda Kolbo (8)	4017 Mayne Lane, Ferndale, WA 98248-9578	390116051110, 390116037071
LGJK LLC (9)	1134 37th Street Bellingham, WA 98226-3132	390120478526
Melvin and Jeanne Marcoux (10)	6128 Kickerville Road Ferndale, WA 98248-9617	390116029040
Washington State Department of Natural Resources, State Lands Division (11)	415 East 11th Street, Olympia, WA 98504	390117334462, 390117334328, 390116070420, 390116073206
Cherry Point Industries LLC / Cherry Point Industrial Park (12)	10587 108 Street NW, Edmonton, AB T5H 2Z8 Canada	390119440480, 390119502484, 390120095477, 390120135359, 390120340476, 390119512341, 390119512341, 390120135359, 390119505246

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-022-09