

Summary of Data Point Information Table C1.

		Wetlan Prese	nd Indica nt	itors	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
AL-04- UP9	14- Jun-06	Yes	No	Yes	No	The sampling point is located near the middle of Assessment Area 3, slightly northeast of the open field at the intersection of Lonseth and Gulf Road.
A-L04- WP08	14- Jun-06	Yes	Yes	Yes	Yes	The sampling point is situated in Assessment Area 3, near the middle of the Assessment Area, northwest of the open field at the corner of Lonseth and Gulf Road. The sampling point was not located by surveyors. Location on map is approximate.
A-L05- UP-10	23- Jan-07	No	No	No	No	The sampling point is situated near the wetland at the corner of Lonseth and Gulf in Assessment Area 9B.
A-L05- WP-12	23- Jan-07	Yes	Yes	Yes		The sampling point is situated in the wetland near the corner of Lonseth and Gulf near Assessment Area 2.
A-L06- UP-01	24- Jan-07	Yes	No	No	No	The sampling point is situated in the upland area at the southwest corner of the study area near Assessment Area 9B.
A-L06- UP-02	24- Jan-07	No	Yes	No	No	The sampling point is situated in the upland area at the southwest corner of the study area near Assessment Area 9B.
A-L06- W-02	24- Jan-07	Yes	Yes	No	Yes	The sampling point is situated in the wetland at the southwest corner of the study area near Assessment Area 9B.
A-L06- WP-01	24- Jan-07	Yes	Yes	Yes	Yes	The sampling point is situated in the wetland area at the southwest corner of the study area near Assessment Area 9B.
A-L08- UP-01	26- Jan-07	Yes	No	Yes	No	The sampling point is situated near the edge of a drainage and a wetland near the western property boundary south of Lonseth Road west of Assessment Area 8A. The sample point was not located by surveyors, so the location on the map was approximated from f

		Wetla Prese	nd Indica	ntors	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
A-L08- WP-01	26- Jan-07	Yes	Yes	Yes	Yes	The sampling point is situated south of Henry in the wetland nearest the western property boundary near Assessment Area 10B.
A-L11- UP-01	27- Jan-07	No	No	No	No	The sampling point is situated south of Lonseth Road, slightly west of the creek in an upland field near Assessment Area 8A.
A-L11- WP-01	27- Jan-07	Yes	Yes	No	Yes	The sampling point is situated south of Henry in the wetland nearest the western property boundary in Assessment Areas 8B.
A-L12- UP-01	29- Jan-07	No	No	No	No	The sampling point is located in the northwest corner of Assessment Area 3. The sampling point was not found by surveyors. The location on the map is approximate.
A-L19- UP-01	30- Jan-07	No	No	Yes	No	The sampling point is located near an elevated portion of a field south of Aldergrove, near a small forested area east of Gulf Road in Assessment Area 3.
A-L19- WP-01	29- Jan-07	Yes	Yes	Yes	Yes	The sampling point is located in an elevated portion of a field south of Aldergrove, near a small forested area east of Gulf Road in Assessment Area 3.
A-L20- WP-01	31- Jan-07		Yes	Yes	Yes	Plot is in a grazed pasture near an elevated portion of a field south of Aldergrove, near a small forested area, west of Gulf Road in Assessment Area 3.
A-L24- UP- 001	05- Feb-07	No	No	No	No	The sampling point is situated near the power line corridor, north of Lonseth Road in Grid P-6 of Assessment Unit 4.
A-L24- WP01	05- Feb-07	Yes		Yes		The sampling point is situated near the power line corridor, north of Lonseth Road in Grid P-6 of Assessment Unit 4.
A-L25- UP- 001	06- Feb-07	No	No	No	No	The sampling point is located south of Lonseth Road, west of Gulf, in Assessment Area 8.

		Wetla Prese	nd Indica	ntors	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
A-L25- WP-01	06- Feb-07	Yes	Yes	Yes	Yes	The sampling point is in the wetland south of Lonseth, west of Gulf in Assessment Area 8.
A-L26- UP-01	05- Feb-07	Yes	No	No	No	The sampling point is located in upland near the wetland B-L26. No herbaceous vegetation occurs below the forest canopy. The plot is located north of Henry road, just west of the boundary with the portion of the study area that is excluded from the prope
A-L27- UP-01	06- Feb-07	No	No	No	No	The sampling point is situated near the wetland that begins on the northeast portion of the exclusion area, south of Lonseth Road, just west of the Railroad tracks in Assessment Area 5B.
A-L27- WP-01	06- Feb-07	Yes	Yes	Yes	Yes	The sampling point is located in Assessment Area 5A.
A-L27- WP-02	06- Feb-07	Yes	Yes	Yes	Yes	The sampling point is situated in the wetland that begins on the northeast portion of the exclusion area, south of Lonseth Road, just west of the Railroad tracks in Assessment Area 5A.
A-L7- UP-01	24- Jan-07	No	No	No	No	The sampling point is located near the western boundary of the project area, along the diagonal property boundary north of Henry Road, near Assessment Area 9B.
A-L7- WP-01	24- Jan-07	Yes	Yes	No	Yes	The sampling point is located near the western boundary of the project area, along the diagonal property boundary north of Henry Road, near Assessment Area 9B.
A-L- WP-10	23- Jan-07	Yes	Yes	No	Yes	The sampling point is situated in the wetland, near the corner of Lonseth and Gulf in Assessment Area 9.
A-UP- 07	12- Jun-06	No	No	Yes	No	The sampling point is located west of A-L03-F10. It is situated in the northeast corner of Assessment Area 3, and is representative of wetland communities in that area.

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		Wetland Indicators Present		ators	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
A-UP- P5	12- Jun-06	No	No	No	No	The sampling point is in Assessment area 2, near the eastern boundary of the unit. The sampling point is representative of other upland areas in the Assessment Area.
A-WP- 04	12- Jun-06	Yes	Yes	Yes	Yes	Plot is located close to Lonseth at the northwest corner of Lonseth and Gulf, in Assessment Area 2.
A- WP06	12- Jun-06	Yes	Yes	Yes	Yes	Sampling point is located just east of A-L03-F10 in northeast corner of Assessment Area 3.
B-L02- PU-06	14- Jun-07	Yes	No	No	No	Plot is located east of the wetland in Assessment Area 7A. The data plot was not located by surveyors, so the location of the data plot was estimated on maps.
B-L02- PW-05	14- Jun-06	Yes	No	Yes	Yes	Sampling point is located approximately 150 feet northwest of B-L02-F157 in Assessment Area 7A. The sampling point was not located by surveyors, so the location of the sampling point was estimated on maps.
B-L03- 4U	12- Jun-07	No	No	No	No	Sampling point is located near B-L03-F160 (or F60) in Assessment Area 1. The sampling point was not located by surveyors and is estimated on maps. It is representative of the upland area near the northwestern property boundary.
B-L04- 1W	10- Jun-06	Yes	Yes	Yes	Yes	The sampling point is located between Lonseth and Aldergrove, west of Gulf, and southwest of B-L03-B125 in Assessment Area 1, at the north end of the parcel near the western property boundary.
B-L04- PU-02	10- Jun-06	Yes	No	No	No	Sampling point is located southeast of B- L04-F02, near the western property boundary, in Assessment Area 1.

		Wetla Prese	nd Indica	ators	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
B-L05- PW-07	14- Jun-06	Yes	Yes	Yes	Yes	The sampling point is located between Aldergrove and Loneseth, west of the pipeline, and 25 feet south of B-L05-F23 in Assessment Area 3. The sampling point is near the historic drainage where it opens up into a larger wetland area.
B-L06- PW8	13- Jun-06	Yes	Yes	Yes	Yes	Sampling point is between B-L06-F56 and B-L05-F112 in the historic drainage associated with Assessment Area 3.
B-L- 06-UP- 11	15- Jun-06	Yes	No	No	No	Sampling point is located approximately 15 feet south of A-L06-F4 in Assessment Area 3.
B-N- PW-12	16- Jun-06	Yes	No	Yes	Yes	The sampling point is in the westernmost field in Assessment Area 9A. The sample point was not located by surveyors, so the location was approximated from field notes.
B-PU- 15	17- Jun-06	Yes	No	No	No	Sampling point is located north of the beach, approximately 50 feet north of the treeline and 150 feet from Gulf Road, in Assessment Area 12.
B-PU- 20	30- Jan-07	No	No	No	No	The sampling point is located in Assessment Area 3, slightly west of the historic drainage.
B-PU- 23	01- Feb-07	Yes	No	No	No	Ilex aquifolium and Polystichum munitum, among other species, are present further upland. The ground is covered with dead leaves and little vegetation is present. Soil pit was dug on the bank of the pond, approximately 15 feet from water's edge. Sampling
B-PU- 25	01- Feb-07	Yes	No	NA	No	The sampling point is located within the cluster of small wetlands located along the drainage north of the beach and east of Gulf Road, towards the northern property boundary, in Assessment Area 13D. It is east of sampling point B-PW26.

		Wetla Prese	nd Indica	ators	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
B-PW- 14	17- Jun-06	Yes	Yes	Yes	Yes	The sampling point Is located approximately 25 feet south of the shrub line and 100 feet east of Gulf Road, in the Coastal Lagoon, Assessment Area 12.
B-PW- 16	17- Jun-06	Yes	Yes	Yes	Yes	The sampling point is located approximately 50 feet west of Gulf Road and 150 feet north of the tree line and is flagged from the road in Assessment Area 12.
B-PW- 17	30- Jan-07	Yes	Yes	Yes	Yes	Sampling point connects to creek, loop A L06. The sampling point is in Assessment Area 13.
B-PW- 22	01- Feb-07	Yes	Yes	Yes	Yes	Soil pit was dug approximately 2 feet from a pond. Roots and rocks in soil horizons and the B-horizon had redox features. The sampling point is in Assessment Area 13.
B- PW23	01- Feb-07	Yes	Yes	Yes	Yes	Soil pit was dug at the confluence of two drainage channels in Assessment Area 13A.
PW-18	30- Jan-07	Yes	Yes	Yes	Yes	The sampling point is in Assessment Area 3.
PW-26	01- Feb-07	Yes	Yes			The sampling point is in Assessment Area 13.
WP- AD-01	16-Jul- 07	Yes	No			
WP- AD-02	16-Jul- 07	Yes	No	Yes	Yes	
Z-L01- P-03	09- Jun-06	No	No	No	No	The sampling point is representative of the upland community in the southwest portion of Assessment Aea 2.
Z-L01- PU-01	09- Jun-06	No	No	No	No	Sampling point is located on the west side of the "old road" and just north of Lonseth, on the west side of the creek in Assessment Areas 2.
Z-L01- PW01	13- Jun-06	Yes	No	Yes	Yes	Sampling point is located at the south end of Assessment Area 2.
Z-L02- PW-01	13- Jun-06	Yes	No	Yes	Yes	Sampling point is located on the west side of the "old road" and just north of Lonseth, on the west side of the creek in Assessment Area 2.

		Wetla Prese	nd Indica	ators	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
Z-L02- PW-02	13- Jun-06	Yes	No	Yes	Yes	Sampling point is located on the west side of the "old road" and just north of Lonseth, on the west side of the creek in Assessment Area 2.
Z-L04- WP-01	15- Jun-06	Yes	No	Yes	Yes	The sampling point is in Assessment Area 11, South of Henry Road along the unnamed creek.
Z-L06- WP-01	15- Jun-06	Yes	Yes	Yes	Yes	Sampling point is west of F7 in Assessment Area 11, South of Henry Road along the unnamed creek.
Z-L08- UP-01	16- Jun-06	No	No	No	No	Sampling point is in Assessment Area 11, South of Henry Road on the east side of the unnamed creek.
Z-L13- UP-01	03- Feb-07	Yes	No	No	No	The sampling point is situated in the upland area west of the unnamed creek in Assessment Area 12.
Z-L13- UP02	23- Jan-07		No	No		The sampling point is situated in the upland area west of the unnamed creek in Assessment Area 12.
Z-L13- UP-03	23- Jan-07	No	No	No	No	The sampling point is located just west of the wetland associated with the southernmost portion of the creek in Assessment Area 12.
Z-L14- WP-01	23- Jan-07	Yes	No	No	Yes	The sampling point is located south of the small forested area south of Henry road, near the west end of the study area in Assessment Area 10A.
Z-L15- UP-02	24- Jan-07	No	No	No	No	Area is regularly hayed. Grasses are 6-10 inches tall. The sampling point is located west of the small forested parch south of Henry Road in Assessment Area 10A.
Z-L15- UP-03	24- Jan-07	No	No	No	No	Area is regularly hayed. Grasses were 6-10 inches tall, 2-3 feet tall in May. The sampling point is located west of the small forested parch south of Henry Road in Assessment Area 10A.
Z-L19- UP-01	24- Jan-07	No	No	No	No	Sampling point is located in one of two well-drained fields south of Henry Road in Assessment Area 10A.

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		Wetla Prese	nd Indica	ators	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
Z-L19- UP-02	24- Jan-07	No	No	No	No	Sampling point is located in one of two well-drained fields south of Henry Road in Assessment Area 10A.
Z-L19- UP-03	24- Jan-07	No	No	No	No	Sampling point is located in one of two well-drained fields south of Henry Road in Assessment Area 10A.
Z-L19- WP-01	24- Jan-07	No	Yes	Yes	Yes	Sampling point is located between two well-drained fields south of Henry Road in Assessment Area 10B.
Z-L21- UP-01	06- Feb-07	No	Yes	No	No	Wetland vegetation and hydric soils are not present in the sampling point. Wetland hydrology is present, however, the presence of wetland hydrology is due primarily to recent, heavy rainfall.
Z-L21- WP-01	24- Jan-07	Yes	Yes	Yes	Yes	The presence of hydrophytic vegetation and wetland hydrology indicate that the sampling point is within a wetland.
Z-L22- UP01	06- Feb-07	No	No	No	No	The plot is in the field to the west of the wetland.
Z-L22- UP-01	24- Jan-07	No	No	No	No	The sampling point is situated south of Henry Road in a well drained field in Assessment Aea 10A.
Z-L22- UP-03	24- Jan-07	No	No	No	No	The sampling point is located in a mowed field south of Henry Road in Assessment Area 10A.
Z-L22- UP-04	24- Jan-07	No	No	No	No	The sampling point is situated in the open fields south of Henry Road in Assessment Area 10A.
Z-L22- UP-06	24- Jan-07	No	Yes	No	No	Soils are wet due to recent rain. Plot located in pasture, commonly plowed or tilled, just east of Z-L22-UP-04 in Assessment Area 10A.
Z-L22- WP01	27- Jan-07	Yes	Yes	No	Yes	The sampling point is situated in a drainage ditch at the edge of a gravel road. It appears that there are inclusions of gravel fill in the sampling point.
Z-L25- UP-01	25- Jan-07	No	No	No	No	The sampling point is located in an open field south of Henry Road that as recently been mowed and seeded in Assessment Area 9A.

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		Wetla Prese	nd Indica	itors	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
Z-L25- WP-01	25- Jan-07	No	Yes	Yes	Yes	The sampling point is located in the wetland in the open fields north of Henry Road in Assessment Area 9A.
Z-L26- UP-02	25- Jan-07	No	No	No	No	The sampling point is located in the long field west of the creek, north of Henry Road in Assessment Area 9A.
Z-L26- UP-03	25- Jan-07	Yes	No	No	No	The sampling point is situated in the sloped field south of Henry Road in Assessment Area 9A.
Z-L26- WP-01	25- Jan-07	Yes	Yes	No	Yes	The sampling point is located in the wetland that extends through the two westernmost open fields, north of Henry Road in Assessment Area 9A.
Z-L27- UP-01	26- Jan-07	No	No	No	No	The sampling point is located east of the creek and south of Henry Road in Assessment Area 14.
Z-L27- WP-01	26- Jan-07	Yes	Yes	Yes	Yes	The sampling point is located just east of the creek, south of Henry Road in Assessment Area 14.
Z-L29- UP-01	30- Jan-07	No	?	No	No	The sample plot is located in the forested area near wetland Z-L29, just north of Henry Road near Gulf Road in Assessment Area 6.
Z-L29- UP-02	02- Feb-07	Yes	No	No	No	The sample plot is located in the forested area near wetland Z-L29, just north of Henry Road near Gulf Road in Assessment Area 6.
Z-L29- WP-01	02- Feb-07	Yes	Yes	Yes	Yes	The sample plot is located in the forested area near wetland Z-L29, just north of Henry Road near Gulf Road in Assessment Area 6.
Z-L30- UP-01	30- Jan-07	No	No	No	No	The sample plot is located in Assessment Area 13E
Z-L30- WP-01	31- Jan-07	Yes	Yes	?	Yes	The sample plot is located in Assessment Area 13E
Z-L31- WP-01	03- Feb-07	Yes	Yes	Yes	Yes	The sample plot is located in Assessment Area 4B
Z-L33- UP-01	03- Feb-07	Yes	No	No	No	Plot is located approximately 50 feet west of Kickerville Rd in Assessment Area 4B.

		Wetla Prese	nd Indica nt	itors	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
Z-L34- WP-01	06- Feb-07	Yes	Yes	Yes	Yes	Plot is located in Assessment Area 4D.
Z-L34- WP-02	06- Feb-07	Yes	Yes	Yes	Yes	Plot is located in Assessment Area 4D.
Z-L37- UP-01	06- Feb-07	No	Yes	No	No	Plot is within mowed powerline corridor in Assessment Area 4A.
Z-L37- UP-02	06- Feb-07	No	No	No	No	Plot is within mowed powerline corridor in Assessment Area 4A.
Z-L37- WP-01	06- Feb-07	Yes	Yes	Yes	Yes	Plot is located within a powerline corridor in Assessment Area 4A.
Z-L37- WP-02	06- Feb-07	Yes	Yes		Yes	Plot is located within a powerline corridor in Assessment Area 4A.
Z-L37- WP-03	06- Feb-07	Yes	Yes	Yes	Yes	Plot is located within a powerline corridor in Assessment Area 4A.
Z-L37- WP-04	03- Feb-07	Yes	Yes	Yes	Yes	The sampling point is situated near the corner of Kickerville and Lonseth Road in Assessment Area 4A.
Z-L38- UP-01	06- Feb-07	No	No	Yes	No	Plot is located in pipeline corridor near Assessment Area 4E.
Z-L43- UP-01	07- Feb-07	No	No	No	No	Sampling point located between Gulf Road and plowed field, just north of Henry Road, in Assessment Area 7B.
Z-L43- WP-01	07- Feb-07	Yes	Yes	Yes		The sampling point is located in a plowed field just north of Henry Road, in Assessment Area 7B.
Z-L47- UP-01	20- Mar-07			No		The plot is located in a mowed field.
Z-L47- UP-02	20- Mar-07			No		The plot is located in a mowed field.
Z-L47- UP-05	20- Mar-07	No	Yes	No	No	The sampling point is located in a routinely mowed field.
Z-L47- UP-08	20- Mar-07					The sampling point is located in a routinely mowed field.
Z-L47- UP-09	20- Mar-07			Yes		The sampling point is located in a routinely mowed field.
Z-L4- PU-01	15- Jun-06	No	No	No	No	Sampling point is SE of F38 in Assessment Area 7B.
Z-L5- PW-01	16- Jun-06	Yes	Yes	No	Yes	Sampling point is SE of F38 in Assessment Area 7B.

		Wetlan Prese	nd Indica nt	itors	Wetland Deter-	
Plot ID	Date	Veg	Hydro -logy	Hydric Soils	mination	Additional Comments
Z-L9- UP-01	06- Sep- 06	No	No	No	No	Sampling point is SE of F38 in Assessment Area 2.

Applicant/Owner: Pacific Ir Investigator: E. Hale, M. Villar					Date: 17-Jun-06 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dis Is the area a potential Pro (If needed, explain on	sturbed (Atypoblem Area?	ical Situa	ation)	Yes No	Community ID: Upland Shrub Transect ID: Plot ID: B-PU-15
EGETATION					
Dominant Plant Species	Stratum	Indicator	_ %	Dominant Plant Species	Stratum Indicator %
1. Maianthemum dilatatum	Herb	_ EAC	80	9	
2. Polystichum munitum	Herb	_ FACU	10	10	
3. Oemleria cerasiformis	Herb		20		CHARLES BEREITS CONTROL CONTRO
1. Rubus spectabilis	Shrub	_ FAC+	50	I be the little of the second of the land	
5. Pseudotsuga menziesii	Tree	FACU	10		
3. Acer glabrum	Tree				
7. Alnus rubra	Tree	FAC	20	400411-14-11-11-11-11-11-11-11-11-11-11-11-	
*Indicator prefix = assigned				16,	essigned by delineator, not defined by FWS.
Percent of Dominant Species that a (excluding FAC-).	are OBL, FACW o	r FAC		80%	
(excluding FAC-). Remarks: 80% of the dominant sperpresent at 10%. A lot of	ecies are FAC. Hyd vine maple (Acer c	rophytic vego ircinatum), si	nowberr	s present but one dominant spec y (Symphoricarpos albus), and P.	ties is FACU and two other FACU species are acific bleedingheart (Dicentra formosa) are and just inside the wooded area.
Remarks: 80% of the dominant spe present at 10%. A lot of	ecies are FAC. Hyd vine maple (Acer c	rophytic vego ircinatum), si	nowberr	s present but one dominant spec y (Symphoricarpos albus), and P.	acific bleedingheart (Dicentra formosa) are
(excluding FAC-). Remarks: 80% of the dominant speresent at 10%. A lot of present throughout the understand the control of th	ecies are FAC. Hyd vine maple (Acer c upland area. Thimb Remarks):	rophytic vego ircinatum), si	nowberr	wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines	acific bleedingheart (Dicentra formosa) are and just inside the wooded area. ors:
(excluding FAC-). Remarks: 80% of the dominant speresent at 10%. A lot of present throughout the understand the the unders	ecies are FAC. Hyd vine maple (Acer c upland area. Thimb Remarks):	rophytic vego ircinatum), si	nowberr	wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Condons Indicators (2	acific bleedingheart (Dicentra formosa) are and just inside the wooded area. ors: r 12 Inches s in Wetlands or more required):
(excluding FAC-). Remarks: 80% of the dominant speresent at 10%. A lot of present throughout the understand the control of th	ecies are FAC. Hyd vine maple (Acer c upland area. Thimb Remarks): nuge	rophytic vego ircinatum), si	nowberr us parvi	wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Condons Indicators (2	acific bleedingheart (Dicentra formosa) are and just inside the wooded area. ors: r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves

Series and axonomy (0	Aqualpic hap	olorthods		Fie	d Observations firm Mapped Type?
rofile Desc lepth nches)	eription: Horizon	Matrix Colo		Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-8	Α	10YR 2	2/2	None	/ None	Sandy Silt
8-12	В	7.5YR 3	3/4	None	/ None	Sandy Silt
	(1) <u>11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>					-11 0 -1 0
	K alandana	· 	sn-carena		/	
A0	uic Moisture	Regime		Listed on	Local Hydric Soils List	
∏ Re	educing Cond eyed or Low	Regime litions Chroma Color dicators are n		Listed on Other (Ex	Local Hydric Soils List National Hydric Soils List plain in Remarks)	
emarks: p	educing Concept of Low	Initions Chroma Color dicators are noted that the color of the color o	N	Listed on Other (Ex	National Hydric Soils List	Within a Wetland?
ETLANI lydrophytic Vetland Hydric Soil	D DETER C Vegetation ydrology Press Present?	MINATIO Present?	N	Listed on Other (Ex	National Hydric Soils List plain in Remarks) Is this Sampling Point	Within a Wetland? No his data plot is not in a wetland.

r roject/Site: "Gateway Pacific Applicant/Owner: <u>Pacific</u> Investigator: <u>M. Kinard, N. T</u>	International Termina				Date: 23-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance s the site significantly di s the area a potential P (If needed, explain on	sturbed (Atypi roblem Area?		tion)	Yes No No	Community ID: Upland Meadow Transect ID: A-L05 Plot ID: A-L05-UP-010
Anthoxanthum odoratum Dactylis glomerata ** *Indicator prefix = assign	Shrub Herb Herb ed by delineator, not	FACU FACU FACU defined by FV	_ 4 _ 95 _ 1 - -	9	Stratum Indicator %
(excluding FAC-).			hen th	779.0	nfirm species identification.
Percent of Dominant Species that (excluding FAC-). Remarks: The data plot was visite			hen th	779.0	nfirm species identification.
(excluding FAC-). Remarks: The data plot was visite	Remarks): Bauge	ain in March w	rhen tr	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2	ors: r 12 Inches s in Wetlands t or more required): annels in Upper 12 Inches aves Data

e soil matrix dric.	tions Chroma Colors is relatively low	Organic Listed o Listed o	ganic Content in Surfa Streaking in Sandy S on Local Hydric Soils L on National Hydric Soil Explain in Remarks)	Structure, etc. Sandy Loan	n n
B C dicators: osol c Epipedon dic Odor dic Moisture R ucing Conditi red or Low-C e soil matrix dric.	10YR 3/4 10YR 3/2 Regime tions chroma Colors is relatively low	None None Concret High Org Organic Listed o Listed o Other (E	tions ganic Content in Surfa Streaking in Sandy S n Local Hydric Soils L on National Hydric Soil Explain in Remarks)	ne Sand ne Sandy Loan ne Sandy Soils nce Layer in Sandy Soils oils st s List	n
C dicators: osol c Epipedon dic Odor c Moisture R ucing Condit red or Low-C e soil matrix dric.	Regime tions Chroma Colors	None Concret High Org Organic Listed o Listed o Other (E	tions ganic Content in Surfa Streaking in Sandy S on Local Hydric Soils L on National Hydric Soil Explain in Remarks)	ne Sandy Loan ice Layer in Sandy Soils oils ist s List	
dicators: psol c Epipedon dic Odor c Moisture R ucing Condit red or Low-C e soil matrix dric.	Regime tions Chroma Colors	Concret High Org Organic Listed o Listed o Other (E	tions ganic Content in Surfa Streaking in Sandy S in Local Hydric Soils L on National Hydric Soil Explain in Remarks)	nce Layer in Sandy Soils oils st s List	
osol c Epipedon dic Odor c Moisture R ucing Condit red or Low-C e soil matrix dric.	tions Chroma Colors is relatively low	High Org Organic Listed o Listed o Other (E	ganic Content in Surfa Streaking in Sandy S on Local Hydric Soils L on National Hydric Soil Explain in Remarks)	oils st s List	
osol c Epipedon dic Odor c Moisture R ucing Condit red or Low-C e soil matrix dric.	tions Chroma Colors is relatively low	High Org Organic Listed o Listed o Other (E	ganic Content in Surfa Streaking in Sandy S on Local Hydric Soils L on National Hydric Soil Explain in Remarks)	oils st s List	
	MINATION				
/egetation P rology Prese Present?		No No	ls this Sampling	Point Within a Wetland?	No
etland indica	ators including ve	egetation, hydrology and s	soils are not present i	n the sampling point. Ti	he sampling point is not in
	rology Prese Present? etland indic	rology Present? Present? etland indicators including ve	Present? No No No etland indicators including vegetation, hydrology and s	rology Present? Present? No No Is this Sampling Is the Island Is the Island Isl	Present? No No Is this Sampling Point Within a Wetland? Retland indicators including vegetation, hydrology and soils are not present in the sampling point. T

roject/Site: Gateway Pacific T Applicant/Owner: Pacific I Investigator: M. Kinard, N. Tu	nternational Termin				Date: 23-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atyp oblem Area?	ical Situa	ation)	Yes No No	Community ID: PEM Transect ID: A-L05 Plot ID: A-L05-WP-12
2. Phalaris arundinacea 3. Carex obnupta 4. Juncus effusus 5 6 *Indicator prefix = assigne Percent of Dominant Species that a (excluding FAC-).	Herb Herb Herb Herb Ad by delineator, note obt. FACW of the sampling of the sa	FACW OBL FACW t defined by F	25 25 25 25 25 	9	Stratum Indicator % assigned by delineator, not defined by FWS.
Recorded Data (Describe in I Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: The sampling point is sa	nugeNo	one(in.) 4(in.) face(in.)	1.5	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2 Oxidized Root Chay Water-Stained Leaders) Local Soil Survey FAC-Neutral Test Other (Explain in Se	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

roject/Site: Gateway Pacific Te Applicant/Owner: Pacific Int Investigator: M. Kinard, N. Tur	ternational Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dist Is the area a potential Pro (If needed, explain on r	turbed (Atyp blem Area?	ical Situa	ation)	Yes No No	Community ID: Upland Forest Transect ID: A-L06 Plot ID: A-L06-UP-01
EGETATION		1. 0. 7	0.4	Caminant Blast Canalas	Stratum Indicator %
Dominant Plant Species	Stratum				Stratum Indicator 79
Populus balsamifera Alnus rubra				THE THE PARTY OF T	
	A SECURITY OF THE PARTY OF THE	FAC-		and the same of th	
·					
Rubus armeniacus	Shrub	FACU			
Athyrium filix-femina	Herb	FAC		14	
Polvstichum munitum	Herb	MA CONTRACTOR DESCRIPTION		MANAGER MODEL STOPPING AND STOPPING TO SHEW TO HE	
The second of the second			-		
Hex aquirollum	Shrub	FACIL	1	16	
*Indicator prefix = assigned		t defined by f	1 =WS.		assigned by delineator, not defined by FWS.
*Indicator prefix = assigned Percent of Dominant Species that ar (excluding FAC-). Remarks: The vegetation in the sam three FACU species and of	by delineator, no	t defined by F	. with or	*Indicator prefix = a	e dominant FAC+ species. The presence of
Percent of Dominant Species that an (excluding FAC-). Remarks: The vegetation in the sam three FACU species and o	t by delineator, no re OBL, FACW o nple plot is primari one FAC- species (A	t defined by F	. with or	*Indicator prefix = a 100% ne dominant FAC species and one interesting indicative of an upland in the interesting indicative indicative of an upland in the interesting indicative in	e dominant FAC+ species. The presence of forest in the study area.
*Indicator prefix = assigned Percent of Dominant Species that ar (excluding FAC-). Remarks: The vegetation in the sam three FACU species and of //DROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gat Aerial Photographs Other	t by delineator, no re OBL, FACW on the plot is primarione FAC- species (A	t defined by F	. with or	*Indicator prefix = a 100% me dominant FAC species and one enerally indicative of an upland of the second	e dominant FAC+ species. The presence of forest in the study area.
*Indicator prefix = assigned Percent of Dominant Species that ar (excluding FAC+). Remarks: The vegetation in the same three FACU species and of the fact of the	t by delineator, no re OBL, FACW on the plot is primarione FAC- species (and Remarks):	t defined by F r FAC ly facultative, Acer circinatu	, with or m), is g	*Indicator prefix = a 100% me dominant FAC species and one penerally indicative of an upland of the perimary indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2)	e dominant FAC+ species. The presence of forest in the study area. ors: er 12 Inches ts s in Wetlands 2 or more required):
*Indicator prefix = assigned Percent of Dominant Species that ar (excluding FAC-). Remarks: The vegetation in the sam three FACU species and of /DROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gat Aerial Photographs	t by delineator, no re OBL, FACW on the plot is primarione FAC- species (ARC): Remarks): uge	t defined by F r FAC ly facultative, Acer circinatu	, with or m), is g	*Indicator prefix = a 100% me dominant FAC species and one penerally indicative of an upland of the perimary indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2)	e dominant FAC+ species. The presence of forest in the study area. ors: er 12 Inches ts s in Wetlands 2 or more required): nannels in Upper 12 Inches eaves

	cription:							
pth ches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abunda Size/Contrast	ince/	Texture, Co Structure, et		4
0-6	Α	10YR 3/6	None	/ N	one	Sandy Lo	oam	
6-12	A2	10YR 4/4	None	/ N	one	Sandy Lo	oam	===
		× () = 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 			Commission of the Commission o			
	20.0000			<u> </u>		- :-:		
••••	S enantena					1		-
ric Soil	Indicators:							
	stosol stic Epipedor	·	Concre	itions rganic Content in Sur	face Lay	er in Sandy So	oils	
				Oliverties to Condu	Calla			
	ulfidic Odor		Organic	c Streaking in Sandy	50llS Liet			
A	ulfidic Odor quic Moisture educing Con	Regime ditions	Listed of Listed of	on Local Hydric Soils on National Hydric So	List			
— A ☐ R ☐ G	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions -Chroma Colors	Listed of Listed of	on Local Hydric Soils on National Hydric So Explain in Remarks)	List			
— A ☐ R ☐ G	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions -Chroma Colors	Listed of Listed of Other (on Local Hydric Soils on National Hydric So Explain in Remarks)	List			
⊢ A R □ G	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions -Chroma Colors	Listed of Listed of Other (on Local Hydric Soils on National Hydric So Explain in Remarks)	List			
⊢ A R □ G	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions -Chroma Colors	Listed of Listed of Other (on Local Hydric Soils on National Hydric So Explain in Remarks)	List			
⊢ A R □ G	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions -Chroma Colors	Listed of Listed of Other (on Local Hydric Soils on National Hydric So Explain in Remarks)	List			
A R R G	ulfidic Odor quic Moisture educing Condeyed or Low Organics pre	Regime ditions -Chroma Colors	Listed of Listed of Other (on Local Hydric Soils on National Hydric So Explain in Remarks)	List			
Marks:	ulfidic Odor quic Moisture educing Condeyed or Low Organics pre	Regime ditions -Chroma Colors sent in the A Soil Hor	Listed of Listed	on Local Hydric Soils on National Hydric So Explain in Remarks)	List			
ARR G	ulfidic Odor quic Moisture educing Condeved or Low Organics pre	Regime ditions -Chroma Colors sent in the A Soil Hor	Listed of Listed of Cother (on Local Hydric Soils on National Hydric So Explain in Remarks) not present.	List	Vithin a Wetla	nd? No	
ARR G	ulfidic Odor quic Moisture educing Condeyed or Low Organics pre	Regime ditions -Chroma Colors sent in the A Soil Hor	Listed of Listed of Cother (on Local Hydric Soils on National Hydric So Explain in Remarks)	List	Vithin a Wetla	nd? No	
ARR G	ulfidic Odor quic Moisture educing Condeved or Low Organics pre D DETER c Vegetation ydrology Pre is Present?	Regime ditions -Chroma Colors sent in the A Soil Hor	Yes No	on Local Hydric Soils on National Hydric So Explain in Remarks) not present. Is this Sampling	List ills List		7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y and
ARR G	D DETER C Vegetation ydrology Present?	Regime ditions -Chroma Colors sent in the A Soil Hore RMINATION Present? sent?	Listed of Listed of Cother (on Local Hydric Soils on National Hydric So Explain in Remarks) not present. Is this Sampling ampling point could to	g Point V		7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y and
ARR G	D DETER C Vegetation ydrology Present?	Regime ditions -Chroma Colors sent in the A Soil Hore RMINATION Present? sent?	Yes No	on Local Hydric Soils on National Hydric So Explain in Remarks) not present. Is this Sampling ampling point could to	g Point V		7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y and
TLAN drophytetland H	D DETER C Vegetation ydrology Present?	Regime ditions -Chroma Colors sent in the A Soil Hore RMINATION Present? sent?	Yes No	on Local Hydric Soils on National Hydric So Explain in Remarks) not present. Is this Sampling ampling point could to	g Point V		7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y and
ARR G	D DETER C Vegetation ydrology Present?	Regime ditions -Chroma Colors sent in the A Soil Hore RMINATION Present? sent?	Yes No	on Local Hydric Soils on National Hydric So Explain in Remarks) not present. Is this Sampling ampling point could to	g Point V		7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y and
TLAN drophytetland H	D DETER C Vegetation ydrology Present?	Regime ditions -Chroma Colors sent in the A Soil Hore RMINATION Present? sent?	Yes No	on Local Hydric Soils on National Hydric So Explain in Remarks) not present. Is this Sampling ampling point could to	g Point V		7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y and
TLAN drophytetland H	D DETER C Vegetation ydrology Present?	Regime ditions -Chroma Colors sent in the A Soil Hore RMINATION Present? sent?	Yes No	on Local Hydric Soils on National Hydric So Explain in Remarks) not present. Is this Sampling ampling point could to	g Point V		7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	y and

roject/Site: _Gateway Pacific I Applicant/Owner: _Pacific I Investigator: _M. Kinard, N. T	nternational Termina				Date: 24-Jan-07 County: Whatcom State: Washington		
Do Normal Circumstance Is the site significantly di Is the area a potential Pr (If needed, explain on	sturbed (Atypi roblem Area?		ation)	Yes No No	Community ID: Transect ID: A-L		
Oominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	THE RESERVE TO SERVE	%
Alnus rubra	Tree			9. Ilex aquifolium	Shrub	_ FACU	_ 1
Acer circinatum				10. Symphoricarpos albus			5
Thuja plicata	Tree	and the same of th	5	11			
Rosa pisocarpa	Herb	FAC		12			
Rubus arrientacus	Shrub			13			
Polystichum munitum	<u>Herb</u>		3	14			
Rubus ursinus Rubus spectabilis			15	15			
*Indicator prefix = assigne	Shrub	FAC+	30	16	assigned by delineator, not		
(excluding FAC-).			Section and Articles	100%	The second	and of five t	-ACII
(excluding FAC-). Remarks: The vegetation in the same species and one FAC- species are species and one FAC- species and one FAC- species are species and one species are species are species and one species are species and one species are species are species and one species are species	emple plot is facultati	ive, with one	domina ally indi	ant FAC species and one domina icative of an upland forest in the	nt FAC+ species. The pressure study area.	sence of five f	FACU
Remarks: The vegetation in the sa	emple plot is facultati	ive, with one	domina ally indi	ant FAC species and one domina	nt FAC+ species. The pressure study area.	sence of five t	FACU
(excluding FAC-). Remarks: The vegetation in the same species and one FAC- species are species and one species and one fAC- species are species and one species and one species are species are species and one species are species are species and one species are s	ample plot is facultati pecies (Acer circinatu Remarks):	ive, with one	domina	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines	ors: er 12 Inches	sence of five f	FACU
(excluding FAC-). Remarks: The vegetation in the sa species and one FAC- species and one FAC	ample plot is facultati pecies (Acer circinatu Remarks): auge	ive, with one	ally indi	Wetland Hydrology Indicate Primary Indicators: Inundated Vater Marks Drift Lines Sediment Deposi Drainage Patterns Secondary Indicators (2	ors: or 12 Inches ts s in Wetlands		FACU
(excluding FAC-). Remarks: The vegetation in the sa species and one FAC- species and one FAC	emple plot is facultation pecies (Acer circinatus) Remarks): auge	ive, with one	ally indi	Wetland Hydrology Indicate Primary Indicators: Inundated Vater Marks Drift Lines Sediment Deposi Drainage Patterns Secondary Indicators (2	ors: er 12 Inches ts s in Wetlands 2 or more required): nannels in Upper 12 Inches		FACU

Approved by HQUSACE 3/92

Additional Comments: The sampling point is situated in the upland area at the southwest corner of the study area near assessment area 9B.

roject/Site: Gateway Pacific To Applicant/Owner: Pacific In Investigator: M. Kinard, N. Tu	nternational Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance: Is the site significantly dis Is the area a potential Pro (If needed, explain on	sturbed (Atyp oblem Area?		ation)	Yes No No	Community ID: PFO Transect ID: A-L06 Plot ID: A-L06-W-02
Pominant Plant Species	Steatum	Indicator	0/-	Dominant Plant Species	Stratum Indicator %
Dominant Plant Species 1. Alnus rubra					<u>Gratom</u> <u>mototor</u>
Rubus armeniacus	Tree	_ FACU		SHOULD BE AND ADDRESS OF THE PROPERTY OF THE PARTY OF THE	
2. Rubus armeniacus 3. Rubus ursinus	Shrub	FACU			
Rubus ursinus Rubus spectabilis	Shrub	EVCT	5		
5. Poa annua	Herh	FAC	75		
3. Phalaris arundinacea	Herb		3		
Carex obnuota	Herb	OBL			
Juncus effusus				A CHANGE RECEIPTION OF THE PROPERTY OF THE PRO	
- Junicus cirusus	Herb	FACW	1	16	
*Indicator prefix = assigned	d by delineator, not			*Indicator prefix =	assigned by delineator, not defined by FWS.
*Indicator prefix = assigned Percent of Dominant Species that a (excluding FAC-).	d by delineator, not	defined by I	WS.	*Indicator prefix = 1	
*Indicator prefix = assigned Percent of Dominant Species that a (excluding FAC-).	d by delineator, not	defined by I	WS.	*Indicator prefix = 1	assigned by delineator, not defined by FWS.
*Indicator prefix = assigned Percent of Dominant Species that a (excluding FAC-). Remarks: The indicator of the only	d by delineator, not are OBL, FACW or dominant species i	defined by I	WS.	*Indicator prefix = 100% t psecies are primarily OBL, FACT Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines	w or FAC. Wetland vegetation is present. ors:
*Indicator prefix = assigned Percent of Dominant Species that a (excluding FAC-). Remarks: The indicator of the only // DROLOGY Recorded Data (Describe in Factorial Photographs Aerial Photographs Other No Recorded Data Available Field Observations:	d by delineator, not are OBL, FACW or dominant species i	defined by I	ominani	*Indicator prefix = 100% t psecies are primarily OBL, FACT Wetland Hydrology Indicator Primary Indicators: Inundated V Saturated in Upper Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2	assigned by delineator, not defined by FWS. W or FAC. Wetland vegetation is present. ors: er 12 Inches ts s in Wetlands 2 or more required):
*Indicator prefix = assigned Percent of Dominant Species that a (excluding FAC-). Remarks: The indicator of the only YDROLOGY Recorded Data (Describe in Factorial Photographs Aerial Photographs Other	d by delineator, not are OBL, FACW or dominant species in Remarks):	defined by I	ominant	*Indicator prefix = 100% t psecies are primarily OBL, FACT Wetland Hydrology Indicator Primary Indicators: Inundated V Saturated in Upper Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2	w or FAC. Wetland vegetation is present. Ors: er 12 Inches ts s in Wetlands 2 or more required): nannels in Upper 12 Inches eaves Data

r roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: M. Kinard, N. T	International Terminals	Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential P (If needed, explain on	sturbed (Atypical Situation) roblem Area?	Yes Community ID: PFO Transect ID: A-L06 Plot ID: A-L06-WP-01
EGETATION	e washing a state of the state of	
1. Populus balsamifera 2. Alnus rubra 3. Rubus spectabilis 4. Polystichum munitum 5. Ranunculus repens 6	Tree FAC 5 Shrub FAC+ 5 Herb FACU 1 Herb FACW 1	Dominant Plant Species Stratum Indicator 9/0
(excluding FAC-).	vegetation is present in the sampling po	int. Ground cover consists of moss and leaves.
(excluding FAC-). Remarks: It appears that wetland	Remarks): lauge	wetland Hydrology Indicators: Primary Indicators: ✓ Inundated ✓ Saturated in Upper 12 Inches — Water Marks — Drift Lines — Sediment Deposits — Drainage Patterns in Wetlands Secondary Indicators (2 or more required): — Oxidized Root Channels in Upper 12 Inches ✓ Water-Stained Leaves — Local Soil Survey Data — FAC-Neutral Test

Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Yes
Yes
Yes
Yes
Indicators of wetland vegetation, hydrology and soils are present. The sampling point is within a wetland.

Approved by HQUSACE 3/92

Additional Comments:

The sampling point is situated in the wetland area at the southwest corner of the study area near assessment area 9B.

roject/Site: Gateway Pacific Te Applicant/Owner: Pacific In nvestigator: M. Kinard, N. Tur	ternational Terminals		Date: 26-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances s the site significantly dis s the area a potential Pro (If needed, explain on r	turbed (Atypical Situation Silem Area?	Yes No No	Community ID: Upland Forest Transect ID: A-L08 Plot ID: A-L08-UP-01
*Indicator prefix = assigned excluding FAC-). Remarks: The dominant vegetation	Tree FAC Shrub FACU Herb FACU Shrub FACU Shrub FACU by delineator, not defined by FWS re OBL, FACW or FAC	9	assigned by delineator, not defined by FWS.
Recorded Data (Describe in R Stream, Lake, or Tide Gat Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:		Wetland Hydrology Indicat Primary Indicators: Inundated Saturated in Upp Water Marks Drift Lines Sediment Depos Drainage Pattern Secondary Indicators (Oxidized Root C Water-Stained Local Soil Survey FAC-Neutral Tes	er 12 Inches its its in Wetlands 2 or more required): hannels in Upper 12 Inches eaves y Data I

Jenes an	lame d Phase): _ ^{Bi}	rchbay silt l	oam, 3 to	8 percent sic	opes			nage Class:m l Observations	oderately well
axonomy	(Subgroup):	Typic haple	orthods					irm Mapped Type?	Yes
rofile Des epth nches)	scription: Horizon	Matrix Co (Munsell		Mottle Co (Munsell M	100000000000000000000000000000000000000	Mottle Abur Size/Contrast		Texture, Concr Structure, etc.	retions,
0-5	Α	10YR	3/2	None			None	Clay Loam	
5-16	A2	10YR	3/2	7.5YR	4/6	25% /	Distinct	Clay Loam	
				7.5YR	5/8	5% /	Distinct		
	m shekirisi Un shekirisi							-	
	2. 2.118401017	30 == 0.00 km saw							
	ulfidic Odor quic Moisture teducina Cond				Listed o	Streaking in San on Local Hydric So	dy Soils ils List	,	
Emarks:	quic Moisture leducing Cond leyed or Low	Regime ditions Chroma Co nic features of the area o	in the upp of the sam	per 12 inches	Organic Listed o Listed o Other (I	c Streaking in San on Local Hydric So on National Hydric Explain in Remark	dy Soils ils List Soils List s)		oint. Moss and leaf litte
emarks:	quic Moisture teducing Conditions teleped or Low Redoxymorph cover 45% o	Regime ditions Chroma Co hic features of the area of t	in the upp of the sam	per 12 inches pling point. Yes No Yes	Organic Listed o Listed o Other (I	e Streaking in San- on Local Hydric So on National Hydric Explain in Remark that hydric soils a	dy Soils ils List Soils List s)		
emarks:	puic Moisture teducing Concileyed or Low-Redoxymorph cover 45% of the Cove	Regime ditions Chroma Co nic features of the area of RMINATIO Present? sent?	in the uppof the sam	Yes No Yes s present, th	Organic Listed of Listed of Other (if	Is this Samp Is the primarily FAC features in Local Hydric So In National Hydric Explain in Remark Is this Samp	dy Soils ils List Soils List s) re present ling Point and not boper 10 inc	in the sampling power. Within a Wetland?	No species in the study are indicators of hydric so

roject/Site: Gateway Pacific T Applicant/Owner: Pacific I nvestigator: M. Kinard, N. Ti	nternational Termin	als			Date: 26-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance s the site significantly dis s the area a potential Pr (If needed, explain on	sturbed (Atyp oblem Area?	ical Situa	ation)	Yes No No	Community ID: PFO Transect ID: A-L08 Plot ID: A-L08-WP-01
GETATION	Stratum	Indicator	_ %	Dominant Plant Species	Stratum Indicator %
Oominant Plant Species Alnus rubra	Tree	-	20.50	Calmanianananananananan	Statum Mocator
Rubus armeniacus		FACU	5	10	
Poa annua	Herb	FAC	30	11	
Carex obnupta	Herb	OBL	20	12	
			24.44	13	
			to no	14	
				15	
				16	***********
*Indicator prefix = assigner	ed by delineator, no		 FWS.	16	
*Indicator prefix = assigner ercent of Dominant Species that (excluding FAC-).	ed by delineator, not are OBL, FACW o	r FAC		*Indicator prefix = 75%	***********
*Indicator prefix = assigner ercent of Dominant Species that (excluding FAC-). The presence of a domining present. DROLOGY Recorded Data (Describe in	ed by delineator, not are OBL, FACW o nant obligate specie	r FAC		*Indicator prefix = 75%	assigned by delineator, not defined by FWS. ACW or FAC indicate that wetland vegetation
*Indicator prefix = assigned ercent of Dominant Species that (excluding FAC-). The presence of a domining present. DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Games and Lake, or	ed by delineator, not are OBL, FACW o nant obligate specie	r FAC		*Indicator prefix =	assigned by delineator, not defined by FWS. ACW or FAC indicate that wetland vegetation ors:
*Indicator prefix = assigned accept of Dominant Species that (excluding FAC-). emarks: The presence of a domining present. DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Games Acrial Photographs Other	ed by delineator, not are OBL, FACW o nant obligate specie	r FAC		*Indicator prefix = *Indicator prefix = 75% e species in the plot are OBL, Fix Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Uppe	assigned by delineator, not defined by FWS. ACW or FAC indicate that wetland vegetation ors:
*Indicator prefix = assigned accept of Dominant Species that (excluding FAC-). emarks: The presence of a domining present. DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Games Acrial Photographs Other	ed by delineator, not are OBL, FACW o nant obligate specie	r FAC		*Indicator prefix = *Indicator prefix = 75% e species in the plot are OBL, Fix e species in the plot are OBL, Fix Inundated V Saturated in Upper Water Marks Drift Lines	assigned by delineator, not defined by FWS. ACW or FAC indicate that wetland vegetation ors:
*Indicator prefix = assigned ercent of Dominant Species that (excluding FAC-). emarks: The presence of a dominis present. DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Garial Photographs Other No Recorded Data Available	ed by delineator, not are OBL, FACW o nant obligate specie	r FAC		*Indicator prefix = *Indicator prefix = 75% e species in the plot are OBL, Fix e species in the plot are OBL, Fix Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposi	assigned by delineator, not defined by FWS. ACW or FAC indicate that wetland vegetation ors:
*Indicator prefix = assigned ercent of Dominant Species that (excluding FAC-). emarks: The presence of a dominis present. DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Gate) Aerial Photographs Other No Recorded Data Available	ed by delineator, not are OBL, FACW o nant obligate specie	r FAC		*Indicator prefix = *Indicator prefix = 75% e species in the plot are OBL, Face primary Indicators: Inundated	assigned by delineator, not defined by FWS. ACW or FAC indicate that wetland vegetation ors: er 12 Inches its s in Wetlands 2 or more required);
*Indicator prefix = assigned ercent of Dominant Species that (excluding FAC-). emarks: The presence of a dominis present. DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Gate) Aerial Photographs Other No Recorded Data Available	ed by delineator, not are OBL, FACW on an obligate specie. Remarks):	r FAC	5% of th	*Indicator prefix = *Indicator prefix = 75% e species in the plot are OBL, Face primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposi Drainage Patterns Secondary Indicators (2) Oxidized Root Ch	assigned by delineator, not defined by FWS. ACW or FAC indicate that wetland vegetation ors: er 12 Inches its s in Wetlands 2 or more required); nannels in Upper 12 Inches
*Indicator prefix = assigned ercent of Dominant Species that (excluding FAC-). The presence of a domining present. DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Gardial Photographs Other No Recorded Data Available field Observations: Depth of Surface Water:	ed by delineator, not are OBL, FACW on ant obligate specie. Remarks): auge	r FAC s and that 75	5% of th	*Indicator prefix = *Indicator prefix = 75% e species in the plot are OBL, Face primary Indicators: Inundated	assigned by delineator, not defined by FWS. ACW or FAC indicate that wetland vegetation ors: er 12 Inches its s in Wetlands 2 or more required): nannels in Upper 12 Inches eaves
*Indicator prefix = assigne Percent of Dominant Species that (excluding FAC-). Remarks: The presence of a dominis present. **DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Gomes and Photographs Other No Recorded Data Available Field Observations:	ed by delineator, not are OBL, FACW on ant obligate specie. Remarks): auge	r FAC s and that 75	5% of th	*Indicator prefix = *Indicator prefix = 75% e species in the plot are OBL, From the plot	assigned by delineator, not defined by FWS. ACW or FAC indicate that wetland vegetation ors: er 12 Inches its s in Wetlands 2 or more required); nannels in Upper 12 Inches eaves Data t

Plot ID: A-L08-WP-01 SOILS Map Unit Name poorly drained Whitehorn silt loam Drainage Class: (Series and Phase): Field Observations Taxonomy (Subgroup): _Aquandic endoaqualfs Yes Confirm Mapped Type? Profile Description: Texture, Concretions, Mottle Colors Mottle Abundance/ Matrix Color Depth Structure, etc. (Munsell Moist) (Munsell Moist) Size/Contrast (inches) Horizon 10YR None None Silty Sandy Loam 0-10 A 3/2 5% / Distinct Silty Sandy Loam 4/6 7.5YR В 10YR 3/2 10-16 Hydric Soil Indicators: Concretions Histosol High Organic Content in Surface Layer in Sandy Soils Histic Epipedon Sulfidic Odor Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Aquic Moisture Regime Listed on National Hydric Soils List Reducing Conditions Gleyed or Low-Chroma Colors Other (Explain in Remarks) Remarks: Low chroma colors and redoxymorphic features in the upper 12 inches indicate that hydric soils are present in the sampling point. Pea-sized gravel is present throughout soil profile. WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes Is this Sampling Point Within a Wetland? Hydric Soils Present? Yes Remarks: The presence of hydrophytic vegetation, wetland hydrology and hydric soils indicate that the sampling point is within a wetland. Approved by HQUSACE 3/92 The sampling point is situated south of Henry in the wetland nearest the western property boundary near assessment area 108. Additional Comments:

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Kinard, N. Tursich	Date: 27-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes Community ID: Upland Meadow Transect ID: A-L11 Plot ID: A-L11-UP-01
EGETATION	
None of the identified vegetation is OBL, FACW, or, FAC. Wetland	Dominant Plant Species Stratum Indicator 9/0 9
□ Recorded Data (Describe in Remarks): □ Stream, Lake, or Tide Gauge □ Aerial Photographs □ Other □ No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: > 16 (in.)	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

	rnase)			o 2 percent slopes			lage Class.	orly drained
axonomy	(Subgroup):	Aquandic	endoaqualí	fs			d Observations firm Mapped Type?	Yes
rofile Des epth nches)	cription; Horizon	Matrix C (Munsel		Mottle Colors (Munsell Moist)	Mottle Abunda Size/Contrast	ance/	Texture, Concre Structure, etc.	
0-10	Α	10YR	3/3	None	/ N	lone	Sandy Loam	
10-16	В	10YR	4/4	None	/ N	lone	Sandy Loam	
			100 m on participation on the state of					
					//			
	9.	531 255555000	was respected					
H Si A	stosol stic Epipedor ulfidic Odor quic Moisture	Regime		Organi Listed	rganic Content in Sur ic Streaking in Sandy on Local Hydric Soils	Soils List	yer in Sandy Soils	
G	educing Concleyed or Low- Hydric soil incand deeper.	Chroma Co	e not prese	Other	on National Hydric So (Explain in Remarks) esent throughout the		file. Larger cobbles	are present at 10 inch
ETLAN Hydrophyti Wetland H	Hydric soil inc and deeper.	Chroma Co	on	Other	(Explain in Remarks)	soil pro	file. Larger cobbles	s are present at 10 inch
ETLAN Hydrophyti Vetland H	Hydric soil incand deeper. D DETER C Vegetation ydrology Pre is Present?	Chroma Condicators are dicators	ON es were pre	No No No No weet, much of the very used as a wetland income	esent throughout the	soil pro	Within a Wetland? ed to species becau land hydrology or h	

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Kinard, N. Tursich	Ctoto: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes Community ID: PEM Transect ID: A-L11 Plot ID: A-L11-WP-01
EGETATION	
Dominant Plant Species 1. Juncus effusus 2. Carex obnupta 3. Herb 4. OBL 5. FAC *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 100% of the dominant species are OBL or FACW. Hydrophytic	Dominant Plant Species
Port of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: The sampling point is saturated to the surface and the shallow	Wetland Hydrology Indicators: Primary Indicators: ✓ Inundated ✓ Saturated in Upper 12 Inches — Water Marks — Drift Lines — Sediment Deposits — Drainage Patterns in Wetlands Secondary Indicators (2 or more required): — Oxidized Root Channels in Upper 12 Inches — Water-Stained Leaves — Local Soil Survey Data — FAC-Neutral Test — Other (Explain in Remarks)

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes Yes No	ls this Sampling Point Within a Wetland?	5
Remarks: Wetland vegetation and hypoint is in a wetland.	drology are present. A	Although indicators of hydric soils are not present, it appear	s that the sampling

Approved by HQUSACE 3/92

Additional Comments:

The sampling point is situated south of Henry in the wetland nearest the western property boundary in assessment areas 8B.

roject/Site: Gateway Pacific To Applicant/Owner: Pacific In nvestigator: M. Kinard, N. Tu	ternational Terminals		Date: 29-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances s the site significantly dis s the area a potential Pro (If needed, explain on	turbed (Atypical Situation) oblem Area?	? No No	Community ID: Upland Meadow Transect ID: A-L12 Plot ID: A-L12-UP-01
GETATION			
Rubus armeniacus Phalaris arundinacea Cirsium arvense Symphoricarpos albus Unid'd grasses	Shrub FACU 30 Herb FACW 40 Herb FACU+ 1 Shrub FACU 1 Herb NI 40	10	
ercent of Dominant Species that a (excluding FAC-).	not identified due to the season and lack	50%	assigned by delineator, not defined by FWS. ed vegetation, only 50 percent were FAC,
Percent of Dominant Species that a (excluding FAC-). Remarks: The grass species were re	are OBL, FACW or FAC	50%	
ercent of Dominant Species that a (excluding FAC-). temarks: The grass species were r FACW. Not obligate spec	not identified due to the season and lack cies were present.	Wetland Hydrology Indical Primary Indicators: Inundated Saturated in Upp Water Marks Drift Lines	ed vegetation, only 50 percent were FAC, tors:
ercent of Dominant Species that a (excluding FAC-). The grass species were refACW. Not obligate species were refACW.	not identified due to the season and lack cies were present. Remarks):	Wetland Hydrology Indical Primary Indicators: Inundated Saturated in Upp Water Marks Drift Lines Sediment Depos Drainage Pattern Secondary Indicators (ed vegetation, only 50 percent were FAC, tors: er 12 Inches sits si in Wetlands
ercent of Dominant Species that a (excluding FAC-). The grass species were refACW. Not obligate species were refACW.	not identified due to the season and lack cies were present.	Wetland Hydrology Indical Primary Indicators: Inundated Saturated in Upp Water Marks Drift Lines Sediment Depos Drainage Pattern Secondary Indicators (lors:

Plot ID: A-L12-UP-01 SOILS Map Unit Name poorly drained Whitehorn silt loam, 0 to 2 percent slopes Drainage Class: (Series and Phase): Field Observations Taxonomy (Subgroup): Aquandic endoaqualfs Confirm Mapped Type? Profile Description: Mottle Abundance/ Texture, Concretions, Mottle Colors Matrix Color Depth Size/Contrast Structure, etc. (Munsell Moist) (Munsell Moist) (inches) Horizon / None 10YR 3/4 None Silty Clay Loam 0-7 A / None Clay Loam 4/6 None 7-16 A2 10YR Hydric Soil Indicators: Concretions Histosol High Organic Content in Surface Layer in Sandy Soils Histic Epipedon Organic Streaking in Sandy Soils Sulfidic Odor Listed on Local Hydric Soils List Aquic Moisture Regime Listed on National Hydric Soils List **Reducing Conditions** Other (Explain in Remarks) Gleyed or Low-Chroma Colors Remarks: Hydric soil indicators are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Wetland Hydrology Present? No Is this Sampling Point Within a Wetland? No Hydric Soils Present? No

Remarks:

One FACW species was dominant (Phalaris arunidinacea), but other species present in the sampling plot (including one dominant) were FACU. One species of dominant vegetation in the sampling point is an unidentified grass species that is likely an upland species, but remains unconfirmed due to the absence of seed heads during the January sampling. Wetland hydrology and hydric soils were not present in the sampling plot. Therefore, the sampling point is not in a wetland.

Approved by HQUSACE 3/92

Additional Comments:

The sampling point is located in the northwest corner of assessment area 3. The sampling point was not found by surveyors. The location on the map is approximate.

r-roject/Site: Gateway Pacific T Applicant/Owner: Pacific I Investigator: M. Kinard					Date: 30-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atypoblem Area?	ical Situa	ation)	Yes No	Community ID: Upland Meadow Transect ID: A-L19 Plot ID: A-L19-UP-01
Dominant Plant Species 1. Poa sp. 2. Trifolium repens 3. Cirsium arvense 4. Phalaris arundinacea 5. Juncus effusus 6. Dactylis glomerata 7. Taraxacum officinale Rubus armeniacus *Indicator prefix = assigne Percent of Dominant Species that a (excluding FAC-). Remarks: It is highly probable that dominant. Hydrophytic versions are properly to the common of	Herb Herb Herb Herb Herb Herb Herb Shrub d by delineator, noter OBL, FACW of the unidientified specific specifi	FACU FACU FACU FACU FACU FACU FACU FACU	25 5 5 25 25 25 25 25 25 25	9	Stratum Indicator % assigned by delineator, not defined by FWS. as and three FACU species were also
PROLOGY Recorded Data (Describe in Factorial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:	uge >	one (in.) 16 (in.))	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2 Oxidized Root Ch. Water-Stained Lea Local Soil Survey FAC-Neutral Test Other (Explain in F	r 12 Inches s in Wetlands or or more required): annels in Upper 12 Inches aves Data

axonomy	(Subgroup):		<u> </u>				Com	irm Mapped Type? No
rofile Des epth nches)	ecription: Horizon	Matrix C (Munsel		Mottle Co		Mottle Abun Size/Contrast	dance/	Texture, Concretions, Structure, etc.
0-12	Α	10YR	3/3	7.5YR	3/4	5% /	Distinct	Silty Clay Loam
12-16	A2	10YR	5/4	7.5YR	4/4	25% /	Distinct	Silt Loam
		· × 		10YR	6/6	25% /	Distinct	
	e <u>2017</u> 000000					<u> </u>		
	v. -chaveona		A STOREST PROPERTY.	* ========	C Section 4 April 1	/		
Дн	Indicators:					L4E		
S A R G	istic Epipedor ulfidic Odor quic Moisture educing Cond leyed or Low	Regime litions Chroma C		res occurred	Organic Listed of Listed of Other (rganic Content in S c Streaking in Sand on Local Hydric Soi on National Hydric i Explain in Remarks	ly Soils Is List Soils List	yer in Sandy Soils x is lighter than most hydric soils in the s
emarks:	istic Epipedor ulfidic Odor quic Moisture educing Cond leyed or Low Few, distinct	Regime ditions Chroma Corredoxymol Redoxymol Regime Present?	rphic featu	res occurred No No No Yes	High Organic Organic Listed of Listed of Other (rganic Content in S c Streaking in Sand on Local Hydric So on National Hydric i Explain in Remarks per 12 inches. The	ly Soils Is List Soils List i)	
ETLAN wydrophyt etland H ydric Soi	istic Epipedor ulfidic Odor quic Moisture educing Conc leyed or Low Few, distinct area. D DETER ic Vegetation lydrology Pre Is Present?	Regime ditions Chroma Corredoxymol Present?	ION	No No Yes	High Organic Listed Control Co	rganic Content in Sc Streaking in Sandon Local Hydric Soion National Hydric Science and School Remarks per 12 inches. The	ly Soils ls List Soils List) soil matri	x is lighter than most hydric soils in the s
emarks:	istic Epipedor ulfidic Odor quic Moisture educing Conc leyed or Low Few, distinct area. D DETER ic Vegetation lydrology Pre Is Present?	Regime ditions Chroma Corredoxymol Present?	ION	No No Yes	High Organic Listed Control Co	rganic Content in Sc Streaking in Sandon Local Hydric Soion National Hydric Science and School Remarks per 12 inches. The	ly Soils ls List Soils List) soil matri	x is lighter than most hydric soils in the

r roject/Site: "Gateway Pacific Applicant/Owner: <u>Pacific</u> Investigator: <u>M. Kinard, N. 1</u>	International Termina				Date: 29-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly d Is the area a potential P (If needed, explain or	isturbed (Atyp roblem Area?		ation)	Yes No No	Community ID: PEM Transect ID: A-L19 Plot ID: A-L19-WP-01
Dominant Plant Species	Stratum	Indicator	0/0	Dominant Plant Species	Stratum Indicator %
1. Phalaris arundinacea					
				SECURE SERVICE	
Juncus effusus	Herb	FACW	5	11,	
Carex obnupta	Herb	OBL	5	12	
Poa sp.	Herb	NI	5	13	
•======================================				14	
				15	
·					assigned by delineator, not defined by FWS
				1000/	
Percent of Dominant Species that (excluding FAC-). Remarks: The grass species were			and lac	~100% c of seed heads. No obligate spe	ecies were present.
(excluding FAC-).	e not identified due to n Remarks): Gauge		and lack	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit	ors: or 12 Inches
(excluding FAC-). Remarks: The grass species were CDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Company in the company	e not identified due to n Remarks): Gauge			Welland Hydrology Indicators: Valuated Vater Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2	ors: or 12 Inches or in Wetlands or or more required): or more in Upper 12 Inches
(excluding FAC-). Remarks: The grass species were (DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Control Aerial Photographs Other	e not identified due to n Remarks): Gauge	the season)	Welland Hydrology Indicators: Value Inundated Vater Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2	ors: 12 Inches 15 in Wetlands 2 or more required): 12 Inches 13 annels in Upper 12 Inches 14 aves 15 Data

Profile Description: Depth Matrix Color Mottle Colors Mottle Abundance/ Texture, Concretions,	Map Unit N (Series an	Name id Phase): _W	/hitehorn si	It loam				Drai	nage Class:po d Observations	orly drained
Matrix Color (Munsell Moist) (Munsell Moist) Size/Contrast Structure, Concretions, Structure, etc. 0-5 A 10YR 2/2 None / None Silty Clay 5-16 A2 10YR 2/2 7.5YR 3/4 5% / Distinct Loam / // // // Mydric Soil Indicators: Histosol Histic Epipedon Organic Structure in Sandy Soils V Sulfidic Odor Organic Structure in Surface Layer in Sandy Soils Organic Straking in Sandy Soils List Listed on National Hydric Soils List Listed on National Hydric Soils List Clayed or Low-Chroma Colors Remarks: Relatively low chroma colors, sulfidic odor, and redoxymorphic features in the upper 10 inches indicate that hydric soils are	「axonomy	(Subgroup):	Aquandic	endoaqua	lfs			Con	firm Mapped Type?	Yes
5-16 A2 10YR 2/2 7.5YR 3/4 5% / Distinct Loam / // // // // // // // // /	Profile Des Depth inches)									etions,
hydric Soil Indicators: Histosol	0-5	A	10YR	2/2	None			None	Silty Clay	
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks) Remarks: Relatively low chroma colors, sulfidic odor, and redoxymorphic features in the upper 10 inches indicate that hydric soils are	5-16	A2	10YR	2/2	7.5YR	3/4	5% /	Distinct	Loam	
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks) Remarks: Relatively low chroma colors, sulfidic odor, and redoxymorphic features in the upper 10 inches indicate that hydric soils are										
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks) Remarks: Relatively low chroma colors, sulfidic odor, and redoxymorphic features in the upper 10 inches indicate that hydric soils are									-	
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks) Remarks: Relatively low chroma colors, sulfidic odor, and redoxymorphic features in the upper 10 inches indicate that hydric soils are							1			
Remarks: Relatively low chroma colors, sulfidic odor, and redoxymorphic features in the upper 10 inches indicate that hydric soils an	[].	listosol	2		Į			Surface La	vyor in Sandy Spile	
		-listosol -listic Epipedor Sulfidic Odor Aquic Moisture Reducing Con	e Regime	plors		High Or Organic Listed o	ganic Content in a Streaking in San on Local Hydric So on National Hydric	dy Soils oils List Soils List	yer in Sandy Soils	

Remarks:

Although the vegetation was not identified to species, the presence of wetland hydrology and hydric soils indicate that the sampling point is within a wetland.

Approved by HQUSACE 3/92

Additional Comments:

The sampling point is located in an elevated portion of a field south of Aldergrove, near a small forested area east of Gulf Road in assessment area 3.

roject/Site: .Gateway Pacific Applicant/Owner: Pacific nvestigator: M. Kinard, J. R	International Termin		311-11E-100		Date: 31-Jan-07 County: Whatcom State: Washington	
Do Normal Circumstance is the site significantly di is the area a potential P (If needed, explain on	isturbed (Atyp roblem Area?	ical Situa	ation)'	Yes No No	Community ID: PEM Transect ID: A-L20 Plot ID: A-L20-W	P-01
Oominant Plant Species	Stratum	Indicator	_ %	Dominant Plant Species	Stratum Indi	cator_%
Ranunculus acriformis	Herb	FACW-	25	9		
Juncus effusus	Herb	FACW	10	10		
Festuca rubra	Herb	FAC+	25	11,		
				12		
				13		
				14		
				ACAMMOND PROPERTY STATES TO STATE OF THE		
				15		
*Indicator prefix = assign ercent of Dominant Species that (excluding FAC-).	ned by delineator, no	t defined by I	FWS.	*Indicator prefix =	assigned by delineator, not defir	
*Indicator prefix = assign ercent of Dominant Species that (excluding FAC-). Remarks: The grass species were	ned by delineator, no	t defined by I	FWS.	*Indicator prefix =		
*Indicator prefix = assign ercent of Dominant Species that (excluding FAC-). temarks: The grass species were	ned by delineator, not t are OBL, FACW o e not identified due to	t defined by I	FWS.	*Indicator prefix =	assigned by delineator, not defir	
*Indicator prefix = assign ercent of Dominant Species that (excluding FAC-). emarks: The grass species were DROLOGY Recorded Data (Describe in	ned by delineator, not are OBL, FACW on the not identified due to the	t defined by I	FWS.	*Indicator prefix = *Indicator prefix = of seed heads. Wetland Hydrology Indicator	assigned by delineator, not defir	
*Indicator prefix = assign ercent of Dominant Species that (excluding FAC-). emarks: The grass species were	ned by delineator, not are OBL, FACW on the not identified due to the	t defined by I	FWS.	*Indicator prefix = *Indicator prefix = of seed heads. Wetland Hydrology Indicator Primary Indicators: Inundated	assigned by delineator, not defir	
*Indicator prefix = assignercent of Dominant Species that excluding FAC-). emarks: The grass species were provided to the provided Data (Describe in Stream, Lake, or Tide Control of Describe in Des	ned by delineator, not are OBL, FACW on the not identified due to the Remarks):	t defined by I	FWS.	*Indicator prefix = *Indicato	assigned by delineator, not defir	
*Indicator prefix = assignercent of Dominant Species that (excluding FAC-). emarks: The grass species were provided Data (Describe in Stream, Lake, or Tide Garafial Photographs Other	ned by delineator, not are OBL, FACW on the not identified due to the Remarks):	t defined by I	FWS.	*Indicator prefix = *Indicato	assigned by delineator, not define	
*Indicator prefix = assignercent of Dominant Species that (excluding FAC-). emarks: The grass species were provided to the provided Data (Describe in Stream, Lake, or Tide C Aerial Photographs Other V_ No Recorded Data Available	ned by delineator, not are OBL, FACW on the not identified due to the Remarks):	t defined by I	FWS.	*Indicator prefix = *Indicato	assigned by delineator, not define	
*Indicator prefix = assignercent of Dominant Species that (excluding FAC-). emarks: The grass species were provided to the provided Data (Describe in Stream, Lake, or Tide C Aerial Photographs Other V_ No Recorded Data Available	ned by delineator, not are OBL, FACW on the not identified due to the Remarks):	t defined by I	FWS.	*Indicator prefix = *Indicato	assigned by delineator, not defir ors: er 12 Inches its s in Wetlands 2 or more required):	
*Indicator prefix = assignercent of Dominant Species that (excluding FAC-). emarks: The grass species were provided Data (Describe in Stream, Lake, or Tide C Aerial Photographs Other V_ No Recorded Data Available	ned by delineator, not are OBL, FACW of the not identified due to Remarks): Sauge	t defined by I	and lack	*Indicator prefix = *Indicato	assigned by delineator, not defir ors: er 12 Inches its s in Wetlands 2 or more required): nannels in Upper 12 Inches	
*Indicator prefix = assign ercent of Dominant Species that (excluding FAC-). temarks: The grass species were DROLOGY Recorded Data (Describe in Stream, Lake, or Tide G Aerial Photographs Other V. No Recorded Data Available field Observations:	ned by delineator, not are OBL, FACW of the not identified due to the Remarks): Sauge	t defined by f	and lack	*Indicator prefix = *Indicato	assigned by delineator, not definer or services its so in Wetlands 2 or more required): nannels in Upper 12 Inches eaves	

lap Unit N Series and	ame I Phase): _W	hitehorn silt loam					nage Class: poorly drained
axonomy	(Subgroup):	Aquandic endoaqual	lfs				d Observations firm Mapped Type?
rofile Des lepth nches)	cription; Horizon	Matrix Color (Munsell Moist)	Mottle Col		Mottle Abund	dance/	Texture, Concretions, Structure, etc.
0-12	Α	10YR 3/2	7.5YR	4/6	5% /	Distinct	Silt Loam
12-16	A2		10YR	5/8	25% /		Sandy Loam
					1		
					1		
							
rdeio Soil	Indicators:		-				
Дн	stosol stic Epipedor	·	~	_ Concretion		urfano I ni	
1.00				High Orga	inic Content in Si		ver in Sandy Soils
St	Ifidic Odor		1	Organic S	treaking in Sand	y Soils	yer in Sandy Soils
St Ad Re	Ilfidic Odor Juic Moisture Educing Cond	Regime		Organic S Listed on I Listed on I	inic Content in Si itreaking in Sand Local Hydric Soil National Hydric S plain in Remarks	y Soils s List soils List	yer in Sandy Soils
St. Ad. Re. V. Gl	Ilfidic Odor juic Moisture educing Cond eyed or Low- The generally	Regime ditions Chroma Colors	concretions, a	Organic S Listed on I Listed on I Other (Exp	treaking in Sand Local Hydric Soil National Hydric S plain in Remarks norphic features	y Soils s List oils List	yer in Sandy Soils per 10 inches indicate that hydric soils are
emarks:	ulfidic Odor juic Moisture educing Concept or Low- The generally present in the Company of the C	Regime ditions Chroma Colors I low chroma matrix, e sampling point. Con	ncretions are p	Organic S Listed on I Listed on I Other (Exp	treaking in Sand Local Hydric Soil National Hydric S plain in Remarks norphic features 2 soil Horizon.	y Soils s List oils List in the up	per 10 inches indicate that hydric soils are
emarks:	ulfidic Odor uic Moisture educing Concept or Low-	Regime ditions Chroma Colors I low chroma matrix, e sampling point. Con	concretions, a norretions are p	Organic S Listed on I Listed on I Other (Exp	treaking in Sand Local Hydric Soil National Hydric S plain in Remarks norphic features 2 soil Horizon.	y Soils s List oils List in the up	
ETLANI St. Ac. Ac. Ac. Ac. Ac. Ac. Ac. Ac. Ac. Ac	DDETER C Vegetation ydrology Present? Although the	Regime ditions Chroma Colors I low chroma matrix, e sampling point. Consequently MINATION Present?	Yes Yes identified to specification	Organic S Listed on I Listed on I Other (Exp	treaking in Sand Local Hydric Soil National Hydric Solain in Remarks norphic features 2 soil Horizon.	y Soils s List coils List in the up	per 10 inches indicate that hydric soils are
ETLANI St. Ac. Ac. Ac. Ac. Ac. Ac. Ac. Ac. Ac. Ac	DDETER C Vegetation ydrology Present? Although the	Regime ditions Chroma Colors I low chroma matrix, a sampling point. Consequently Region (Consequently) Remarks (Consequently	Yes Yes identified to specification	Organic S Listed on I Listed on I Other (Exp	treaking in Sand Local Hydric Soil National Hydric Solain in Remarks norphic features 2 soil Horizon.	y Soils s List coils List in the up	per 10 inches indicate that hydric soils are
ETLANI St. Ac. Ac. Ac. Ac. Ac. Ac. Ac. Ac. Ac. Ac	DDETER C Vegetation ydrology Present? Although the	Regime ditions Chroma Colors I low chroma matrix, a sampling point. Consequently Region (Consequently) Remarks (Consequently	Yes Yes identified to specification	Organic S Listed on I Listed on I Other (Exp	treaking in Sand Local Hydric Soil National Hydric Solain in Remarks norphic features 2 soil Horizon.	y Soils s List coils List in the up	per 10 inches indicate that hydric soils are

noject/Site: Gateway Pacific T Applicant/Owner: Pacific I Investigator: M. Kinard, N. Tu	nternational Termin			AND A CONTROL OF A
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atyp oblem Area?	ical Situa	ation)	Yes Community ID: Upland Forest Transect ID: Plot ID: A-L24-UP-001
EGETATION				
Dominant Plant Species				Dominant Plant Species Stratum Indicator %
1		_ EAC	40	9
2. Alnus rubra	Shrub	_ FAC	2	10,
3. Sambucus racemosa Rubus spectabilis			[.]	11
4. Rubus spectabilis	Shrub	- FAC+	25	13
5. Acer circinatum 6. Betula occidentalis	Tree	FACW	10	14
				15
7 p				16
*Indicator prefix = assigne	nd by delineator, not	defined by I	 -WS	*Indicator prefix = assigned by delineator, not defined by FWS.
Percent of Dominant Species that (excluding FAC-). Remarks: Most of the vegetation in (Sambucus) and FAC-splittle herbaceous vegetar	n the sample plot is pecies (Acer circinat	facultative, v um), is gene	rally ind	FACW species and one FAC+ species. The presence of the upland species cative of an upland community in the study area. As could be expected,
YDROLOGY	6			
Recorded Data (Describe in Stream, Lake, or Tide Gate Aerial Photographs Other No Recorded Data Available				Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations:	N	one (in		 Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches
Depth of Surface Water: Depth to Free Water in Pit:	*	one (in.	āl ma	Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test
Depth to Saturated Soil:	>	16(in.)	Other (Explain in Remarks)
No indicators of wetland	d hydrology are pre	sent, even du	iring the	rainy season.

ixonomy (Subgroup	:_Typic haplorthods			firm Mapped Type? Yes
ofile Description: epth ches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-10 A	10YR 3/3	None	/ None	Silt Loam
10-16 A2	10YR 3/3	7.5YR 4/4	15% / Faint	Silt Loam
				æ: =:
fric Soil Indicators:				
Histosol Histic Epiped		Concreti	anic Content in Surface La	yer in Sandy Soils
Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co	re Regime nditions w-Chroma Colors	High Org Organic Listed or Listed or Other (E	ganic Content in Surface La Streaking in Sandy Soils n Local Hydric Soils List n National Hydric Soils List explain in Remarks)	yer in Sandy Soils ix is lighter than most hydric soils in the si
Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co Gleyed or Lo	re Regime nditions w-Chroma Colors redoxymorphic features	High Org Organic Listed or Listed or Other (E	ganic Content in Surface La Streaking in Sandy Soils n Local Hydric Soils List n National Hydric Soils List explain in Remarks)	
Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co Gleyed or Lo marks: Few, faint area. TLAND DETE	re Regime nditions w-Chroma Colors redoxymorphic features RMINATION	High Org Organic Listed or Listed or Other (E	ganic Content in Surface La Streaking in Sandy Soils n Local Hydric Soils List n National Hydric Soils List explain in Remarks)	ix is lighter than most hydric soils in the si
Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co Gleyed or Lo	re Regime nditions w-Chroma Colors redoxymorphic features RMINATION on Present? resent?	High Org Organic Listed or Listed or Other (E	ganic Content in Surface La Streaking in Sandy Soils n Local Hydric Soils List n National Hydric Soils List explain in Remarks)	ix is lighter than most hydric soils in the si
Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co Gleyed or Lo marks: Few, faint area. TLAND DETE drophytic Vegetatic etland Hydrology P dric Soils Present	re Regime nditions w-Chroma Colors redoxymorphic features RMINATION on Present?	No No No No	ganic Content in Surface La Streaking in Sandy Soils in Local Hydric Soils List in National Hydric Soils List explain in Remarks) these of depth. The soil matri	ix is lighter than most hydric soils in the si
Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co Gleyed or Lo marks: Few, faint area. FLAND DETE drophytic Vegetatic stland Hydrology P dric Soils Present marks: No indicat	re Regime nditions w-Chroma Colors redoxymorphic features RMINATION on Present?	No No No No	ganic Content in Surface La Streaking in Sandy Soils in Local Hydric Soils List in National Hydric Soils List explain in Remarks) these of depth. The soil matri	ix is lighter than most hydric soils in the si
Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co Gleyed or Lo marks: Few, faint area. FLAND DETE drophytic Vegetatic stland Hydrology P dric Soils Present marks: No indicat	re Regime nditions w-Chroma Colors redoxymorphic features RMINATION on Present?	No No No No	ganic Content in Surface La Streaking in Sandy Soils in Local Hydric Soils List in National Hydric Soils List explain in Remarks) these of depth. The soil matri	ix is lighter than most hydric soils in the si
Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co Gleyed or Lo marks: Few, faint area. FLAND DETE drophytic Vegetatic stland Hydrology P dric Soils Present marks: No indicate	re Regime nditions w-Chroma Colors redoxymorphic features RMINATION on Present?	No No No No	ganic Content in Surface La Streaking in Sandy Soils in Local Hydric Soils List in National Hydric Soils List explain in Remarks) these of depth. The soil matri	ix is lighter than most hydric soils in the si

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

ect/Site: Gateway Pacific Terminal licant/Owner: Pacific International Terminals estigator: M. Kinard, N. Tursich, J. Rock			Date: 05-Feb-07 County: Whatcom State: Washington
4	te?	Yes	Community ID: Transect ID: A-L24 Plot ID: A-L24-WP01
Normal Circumstances exist on the si the site significantly disturbed (Atypica the area a potential Problem Area? (If needed, explain on reverse.)	al Situation)?	No	Plot ID: A-L24-WP01
(If needed, explain on the			Stratum Indicator %
	Indicator %	Dominant Plant S	pecies Stratum Indicator
ominant Plant Species Alous rubra Shrub	<u>FAC</u> 30	10	
Alnus rubra Shrub	FACU 1 FACW 90	12	
Phalaris arunimaced Shrub Rubus spectabilis Shrub	FAC+ 10 FACU 10	14	
6. Rubus ursinus		16*tndice	ator prefix = assigned by delineator, not defined by FWS.
o delineator, n	ot defined by FWS.	India	
*Indicator prefix = assigned by delineator, n	or FAC	100%	
*Indicator prefix = assigned by defineder, Percent of Dominant Species that are OBL., FACW (excluding FAC-). Remarks: 100% of the dominant species are FAC of	or FAC r FACW. FACU spe	100% cies are also present	in the sampling point.
Percent of Dominant Species that are OBL, FACTOR (excluding FAC-). Remarks: 100% of the dominant species are FAC or	or FAC r FACW. FACU spe	cies are also present	
Percent of Dominant Species that are OBL, FACTOR (excluding FAC-). Remarks: 100% of the dominant species are FAC of the HYDROLOGY	or FAC	cies are also present Wetland H	ydrology Indicators: y Indicators:
Percent of Dominant Species that are OBL, FACTOR (excluding FAC-). Remarks: 100% of the dominant species are FAC or	or FAC	Wetland H	ydrology Indicators: y Indicators: nundated aturated in Upper 12 Inches Vater Marks Orift Lines Sediment Deposits Orginage Patterns in Wetlands
Percent of Dominant Species that are OBL, FACTOR (excluding FACTOR). Remarks: 100% of the dominant species are FACTOR (excluding FACTOR). HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other V No Recorded Data Available Field Observations:	or FAC r FACW. FACU spe	Wetland H Priman	ydrology Indicators: y Indicators: nundated saturated in Upper 12 Inches Vater Marks Orift Lines Sediment Deposits Drainage Patterns in Wetlands endary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches
Percent of Dominant Species that are OBL, FACTOR (excluding FACTOR). Remarks: 100% of the dominant species are FACTOR (excluding FACTOR). HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	r FACW. FACU spe	Wetland He Primary	ydrology Indicators: y Indicators (2 Inches

Plot ID: A-L24-WP01

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

roject/Site: Gateway Pacific To Applicant/Owner: Pacific In Investigator: M. Kinard, N. Tu	nternational Terminals	
Do Normal Circumstances Is the site significantly dis Is the area a potential Pro (If needed, explain on I	turbed (Atypical Situation) oblem Area?	? No Community ID: Upland Forest Transect ID: Plot ID: A-L25-UP-001
EGETATION		
3. Symphoricarpos albus 4. Rubus spectabilis 5. Polystichum munitum 6	FAC 15 Tree FAC- 5 25 Shrub FAC+ 10 Herb FACU 2 by delineator, not defined by FWS.	Dominant Plant Species Stratum Indicator % 9
Recorded Data (Describe in Re Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit:	emarks): geNone(in.)None(in.)	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Applicant/Owner: _Pacific Terminal Applicant/Owner: _Pacific International Terminals Investigator: _M. Kinard, N. Tursich, J. Rock		Date: 06-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PFO Transect ID: PFO A-L25-WP-01
EGETATION		
Dominant Plant Species 1. FAC 80 2. Rubus spectabilis 3. Carex obnupta 4. 70 *Indicator prefix = assigned by delineator, not defined by FWS.	9	Stratum Indicator 9/
ercent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). emarks: The plot is dominated by hydrophytic vegetation, including an ob	100%	
of inversely by mydrophytic vegetation, including an ob	ilgate species.	
DROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Welland Hydrology Indicators Primary Indicators: Inundated Saturated in Upper 1 Water Marks Drift Lines	

Taxonom	nd Phase): _V	Aquandic endoaqua	olfe	Fie	inage Class: d Observations	poorly drained	
· unontoning	(Gabgroup).	-/ reportate endoaque	3113	Con	firm Mapped Typ	e? Yes	
Profile De Depth Inches)	scription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Con Structure, etc.	cretions,	
0-16	Α	10YR 3/1	None	/ None	Silty Clay L	02m	-
				<u>-</u>			
				/	70. 27000000		
					-	C-00-28-1-8-1-8-1-	
				/	7		
	Indicators:						
narke		Chroma Colors	Other (E	n National Hydric Soils List explain in Remarks)			
marks: A			Other (E	in National Hydric Soils List Explain in Remarks) Is low chroma which is an inc	dicator of hydric s	soil,	
FLAND drophytic etland Hyd	lthough no re	MINATION resent?	Other (E	xplain in Remarks)		yes	
FLAND drophytic tland Hyd dric Soils	DETERN Vegetation P drology Prese Present?	MINATION resent?	es es es	xplain in Remarks) s low chroma which is an inc	thin a Wetland?	Yes	
LAND Irophytic tland Hyd ric Soils narks:	DETERM Vegetation P drology Prese Present?	MINATION resent? yetland vegetation, hy	es e	s low chroma which is an inc	thin a Wetland? is within a wetla	Yes	/92

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COF Wetlands Delineation Manual)

Applicant/Owner: Pacific International Terminals Investigator: M. Kinard, J. Rock	Date: 05-Feb-07 County: whatcom State: washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situations the area a potential Problem Area? (If needed, explain on reverse.)	Community ID: Upland Forest Transect ID: No Plot ID: A-L26-UP-01
EGETATION	
Dominant Plant Species 1.	9. Stratum Indicator
emarks: Species in the sampling point were primarily facultative. One Foreign dominant in the sampling point.	ACW Species was dominant, but in general, hydrophytic vegetation is not
DROLOGY	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks

axonomy	/ (Subgroup):	Typic hap	olorthods			Field	nage Class: d Observation firm Mapped T	s	drained Yes	7
rofile Des epth nches)	scription: Horizon	Matrix C	Color Il Moist)	Mottle Colors (Munsell Moist)	Mottle Abunda Size/Contrast	ance/	Texture, C	Concretio	ns,	
0-2	0		******	None	/ N	000				_
2-4	Α	10YR	3/1	None	/ N		Silt Loar			
4-10	A2	7.5YR	4/4	None	/ / No	one	- Silt Loar			-
	-				<u>-</u>				******	
-965							-		A best an	
Gle	ducing Condi eyed or Low-Country o indicators of	Chroma Col		Listed on Other (Ex	n Local Hydric Soils L n National Hydric Soils xplain In Remarks)	s List				
Gle	o indicators o	Chroma Col	ils are pre:	Listed on Other (Ex	National Hydric Soils	S List				
Gle	o indicators o	Chroma Col of hydric so	ils are pres	Sent.	National Hydric Soils	s List	nin a Wetland	? No		
LAND rophytic \(\) land Hydric Soils	DETERM Vegetation Prology Present?	IINATIO esent?	N Ye	Sent.	National Hydric Soils plain in Remarks) Is this Sampling P	oint With		7		

Applicant/Owner: Pacific Investigator: M. Kinard, N. Tu	erminal nternational Terminals ırsich, J. Rock		Date: 06-Feb-07 County: Whatcom State: Washington
Do Normal Circumstance: Is the site significantly dis Is the area a potential Pro (If needed, explain on the	turbed (Atypical Situation oblem Area?	Yes No No	Community ID: Upland Forest Transect ID: A-L27 Plot ID: A-L27-UP-01
/EGETATION			
Dominant Plant Species 1. Acer macrophyllum 2. Acer circinatum 3. Alnus rubra 4. Betula papyrifera 5. Rubus spectabilis 6. Ribes lacustre 7. Ribes sp. Polystichum munitum	Shrub FAC+ 25 Shrub FAC+ 1	13 14 15	
Percent of Dominant Species that are (excluding FAC-).	by delineator, not defined by FWS. OBL, FACW or FAC	*Indicator prefix = a	assigned by delineator, not defined by FWS. and vegetation is not present in the sampling

axonomy	(Subgroup):	_Aquandic endoaqua	elfs	Dra Fiel Con	d Observations firm Mapped Type? No
rofile Des epth nches)	scription; Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-3	0		None	/ None	
3-5	Α	10YR 2/1	None	/ None	
5-16	В	7.5YR 4/2	None	/ None	Sandy Clay Loam
	3 440,000,000				- Carloy Court
		• (
His Su Aq	stosol stic Epipedon Ifidic Odor uic Moisture I		Concret High Org	ganic Content in Surface Laye	er in Sandy Soils
Gle	ducing Condi eyed or Low-(itions Chroma Colors	Listed of Listed of Control of Control	n Local Hydric Soils List n National Hydric Soils List Explain in Remarks)	na colors was present (A), however, it
Gle	ducing Condi eyed or Low-(or redoxymor) ot appear tha	itions Chroma Colors phic features were pr at the soils are hydric.	Listed of Listed of Control of Control	n Local Hydric Soils List n National Hydric Soils List Explain in Remarks)	na colors was present (A), however, it
narks: N	ducing Condi eyed or Low-Conditions or redoxymory of appear that	Itions Chroma Colors phic features were protection the soils are hydric. IINATION	esent in the soil pit. A	n Local Hydric Soils List n National Hydric Soils List Explain in Remarks)	na colors was present (A), however, it
Gle marks: N	ducing Condi eyed or Low-Conditions or redoxymory of appear that	Itions Chroma Colors phic features were protection the soils are hydric. IINATION	resent in the soil pit. A	n Local Hydric Soils List n National Hydric Soils List Explain in Remarks)	
LAND Cophytic and Hydic Soils	DETERM Vegetation Prirology Prese Present?	Itions Chroma Colors Phic features were property the soils are hydric. IINATION resent? N N	esent in the soil pit. A	n Local Hydric Soils List n National Hydric Soils List explain in Remarks) narrow horizon of low chror	hin a Wetland?
LAND cophytic and Hydic Soils	DETERM Vegetation Prirology Prese Present?	Itions Chroma Colors Phic features were property the soils are hydric. IINATION resent? N N	esent in the soil pit. A	n Local Hydric Soils List n National Hydric Soils List explain in Remarks) narrow horizon of low chror	hin a Wetland?
LAND cophytic and Hydic Soils	DETERM Vegetation Prirology Prese Present?	Itions Chroma Colors Phic features were property the soils are hydric. IINATION resent? N N	esent in the soil pit. A	n Local Hydric Soils List n National Hydric Soils List explain in Remarks) narrow horizon of low chror	hin a Wetland?
LAND cophytic and Hydic Soils	DETERM Vegetation Prirology Prese Present?	Itions Chroma Colors Phic features were property the soils are hydric. IINATION resent? N N	esent in the soil pit. A	n Local Hydric Soils List n National Hydric Soils List explain in Remarks) narrow horizon of low chror	hin a Wetland?
LAND cophytic and Hydic Soils	DETERM Vegetation Prirology Prese Present?	Itions Chroma Colors Phic features were property the soils are hydric. IINATION resent? N N	esent in the soil pit. A	n Local Hydric Soils List n National Hydric Soils List explain in Remarks) narrow horizon of low chror	hin a Wetland?

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Kinard, N. Tursich, J. Rock		Date: 06-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PEM Transect ID: PEM Plot ID: A-L27-WP-01
VEGETATION		
Dominant Plant Species 1. Phalaris arundinacea 2. Unid'd grasses 3. Herb NI 70 3 4 5 6 7 *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: Vegetation in the sampling point was difficult to identify to species be present.	9	Stratum Indicator % Signed by delineator, not defined by FWS. It appears that wetland vegetation may
Primary indicators of wetland hydrology (site is inundated, saturate wetland hydrology is present in the sampling point.	Water-Stained Leave Local Soil Survey Da FAC-Neutral Test Other (Explain in Ren	2 Inches Wetlands more required): nels in Upper 12 Inches es ta marks)

Applicant/Owner: Pacific Investigator: M. Kinard, N.	Terminal International Terminals Fursich, J. Rock		Date: 06-Feb-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential P (If needed, explain on	sturbed (Atypical Situati roblem Area?	on)? No No	Community ID: PFO Transect ID: PFO Plot ID: A-L27-WP-02
EGETATION			
3. Rubus spectabilis 4. Carex obnupta 5 6 *Indicator prefix = assigne Percent of Dominant Species that a	Tree FAC Herb OBL d by delineator, not defined by FWS	9	Stratum Indicator %
(excluding FAC-).	hydrophytic vegetation, including a	n obligate species.	

axonomy	(Subgroup):	Aquandic endoaqua	, F	eld Observations onfirm Mapped Ty	rpe? Yes			
rofile Des epth nches)	Scription; Horizon	Matrix Color (Munsell Moist)	Mottle Col		Mottle Abundance/ Size/Contrast	Texture, Co Structure, et	oncretions, ic.	
0-6	A 10YR 3/1		None	None /		Silt Loam	Silt Loam	
6-16	A2	10YR	10YR	4/6	/ Distinct	Sandy Lo		
	S - S - S - S - S - S - S - S - S - S -							
	~ =	Control of the second				= = = = = = = = = = = = = = = = = = = =		
⊥ Hi	Indicators; stosol stic Epipedon	ver	Д	Concretio	000			
✓ Su	Ifidia Oda-			High Orga		was in Candy Cal	Y2	
.▼. GI	uic Moisture educing Cond eyed or Low-	itions Chroma Colors	w-chroma colo	Urganic S Listed on Listed on Other (Exp	inic Content in Surface L treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List Istolain in Remarks)			
FLANE	uic Molsture ducing Cond eyed or Low-fine soil contains DETERIO	itions Chroma Colors ins a sulfidic odor, lo MINATION Present?	Y es	Urganic S Listed on Listed on Other (Exp	nic Content in Surface L treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List blain in Remarks)			
Re GI Promarks: T Chance Ch	uic Molsture educing Cond eyed or Low-fine soil contains DETER!	itions Chroma Colors ins a sulfidic odor, lo MINATION Present?		Urganic S Listed on Listed on Other (Exp	nic Content in Surface L treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List blain in Remarks)	that the soil is h	ydric.	
FLAND drophytic stland Hydric Soils	DETERIO	itions Chroma Colors ins a sulfidic odor, lo MINATION Present?	res res res	Urganic S Listed on Listed on Other (Exp	nic Content in Surface L treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List lain in Remarks) stinct mottles, indicating	that the soil is h	ydric.	
FLAND drophytic stland Hydric Soils	DETER! Vegetation Percent? The sampling	itions Chroma Colors ins a sulfidic odor, lo MINATION Present?	res res res	Urganic S Listed on Listed on Other (Exp	nic Content in Surface L treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List lain in Remarks) stinct mottles, indicating	that the soil is h	ydric. ? Yes	
FLAND drophytic stland Hydric Soils	DETER! Vegetation Persent? The sampling	itions Chroma Colors ins a sulfidic odor, lo MINATION Present?	res res res	Urganic S Listed on Listed on Other (Exp	nic Content in Surface L treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List lain in Remarks) stinct mottles, indicating	that the soil is h	ydric. ? Yes	
FLAND drophytic stland Hydric Soils marks: T	DETER! DETER! Vegetation Persent? The sampling vetland.	MINATION Present? ent? point contains wetlar	Yes Yes Yes and vegetation,	Urganic S Listed on Listed on Other (Exp ors andd dis	nic Content in Surface L treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List Is plain in Remarks) stinct mottles, indicating Is this Sampling Point drology and hydric soils	Within a Wetland	ydric. ? Yes	

roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: M. Kinard, N.	International Terminals		Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly d Is the area a potential P (If needed, explain or	isturbed (Atypical Situation roblem Area?	Yes No No	Community ID: Upland Forest Transect ID: A-L07 Plot ID: A-L7-UP-01
EGETATION			
3. Rubus spectabilis 4. Rosa gymnocarpa 5. Rubus armeniacus 6. Crataegus douglasii 7. Polvstichum munitum *Indicator prefix = assigne Percent of Dominant Species that a (excluding FAC-). Remarks: The vegetation in the sai	Tree FAC 5 Shrub FACH 60 Shrub FACU 3 Shrub FACU 15 Tree FAC 5 Herb FACU 5 and by delineator, not defined by FWS. 5	10	assigned by delineator, not defined by FWS.
Recorded Data (Describe in F Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:	None (in.)	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Cha Water-Stained Lea Local Soil Survey D FAC-Neutral Test Other (Explain in R	12 Inches in Wetlands or more required); nnels in Upper 12 Inches ves

Гахопоту	(Subgroup):	Typic hap	lorthods				l Observations irm Mapped T		No	
Profile Des Depth Inches)	ecription; Horizon	Matrix C (Munsel		Mottle Colors (Munsell Moist)	Mottle Abunda Size/Contrast	nce/	Texture, C Structure, e	oncreti	ons,	
0-10	Α	7.5YR	3/2	None	/ No	 one	Sandy L	.oam		
10-16	A2	7.5YR	3/3	None	/ No	ne	Sandy C		 am	
							3 27 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 			
	-	-		<u> </u>						
Hi: Su	stosol stic Epipedon			Concreti						
emarks: 7	dor was dete	Regime itions Chroma Co x is relative ney soils are ected.	ely low chri e hydric. T	High Org Organic Listed or Listed or	ranic Content in Surfa Streaking in Sandy S n Local Hydric Soils L n National Hydric Soil explain in Remarks)	ist s List	sic features as	o not e	present, it d	oes not ly and r
emarks: Tale of the control of the c	uic Moisture ducing Cond eyed or Low- he soil matri ppear that ti	Regime litions Chroma Co x is relative ley soils are ceted. MINATIC	ely low chrice hydric. T	High Organic Listed or Listed or Other (E	ranic Content in Surfa Streaking in Sandy S n Local Hydric Soils L n National Hydric Soil explain in Remarks)	ist s List cymorph : A horiz	ic features ar on, however	e not p	oresent, it d	oes not ly and r
TLANE rdrophytic etland Hy rdric Soils	DETER Vegetation F drology Present?	Regime litions Chroma Co x is relative ney soils are ected. MINATIO Present? ent?	DN	High Organic Listed or Listed or Other (E	sanic Content in Surfa Streaking in Sandy S In Local Hydric Soils L National Hydric Soils explain in Remarks) Thes, but since redox high organics in the	Point W	ic features ar on, however	e not pthe tex	ture is sand	y and r
TLANE rdrophytic etland Hy rdric Soils emarks:	the soil matrippear that the dor was determined by the soil matrippear that the dor was determined by the soil matrippear that the dor was determined by the soil matrippear that the dor was determined by the soil matrix that the soil matrix	Regime litions Chroma Co x is relative ley soils are ected. WINATIO Present? ent? of hydroph lithin a weti	DN Sytic vegetaland.	High Organic Listed or Listed or Other (E	sanic Content in Surfa Streaking in Sandy S I Local Hydric Soils L National Hydric Soils explain in Remarks) Thes, but since redox high organics in the	Point W	ic features ar on, however thin a Wetlan at in the samp	e not pthe tex	No bint. The sai	mpling

Applicant/Owner: Pacific Investigator: M. Kinard, N.	Terminal International Terminals Tursich		Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly of Is the area a potential F (If needed, explain or	isturbed (Atypical Situation) roblem Area?	Yes No No No	Community ID: PFO Transect ID: A-L07 Plot ID: A-L7-WP-01
EGETATION			
6. Rubus spectabilis	Shrub FACU 3 Herb FACU 1 Herb OBL 1	10 11 12 13 14	Stratum Indicator % Shrub FAC 1
*Indicator prefix = assign Percent of Dominant Species that (excluding FAC-).	Shrub FACU 5 ed by delineator, not defined by FWS. are OBL, FACW or FAC	*Indicator prefix =	assigned by delineator, not defined by FWS.

Series and axonomy	(Subgroup):	Aquandic	endoaqual	fs		Drainage Field Obs Confirm M	Oldoo.	noorly drained
rofile Desc epth nches)	cription: Horizon	Matrix Co		Mottle Colors (Munsell Moist)	Mottle Abundan Size/Contrast		exture, Concucture, etc.	
0-16	A	7.5YR	3/2	None	/ No	 ne	**********	
		7 <u>-111-11-11-11-1</u>			/			*****
100mm	/ 	·				-		
		d species screen						
	-					7.7.7.7.7.7.7. 1 		
	fidic Odor			Organic	anic Content in Surfa Streaking in Sandy Sc	oils	Sandy Soils	
Aqu Rec Gle	uic Moisture ducing Cond eyed or Low-	itions Chroma Col	mewhat lo	Listed on Listed on	Streaking in Sandy So Local Hydric Soils Lk National Hydric Soils plain in Remarks)	oils st List	ξ.	ent. Therefore, the so
Aque Rec Rec Rec Rec Rec Rec Rec Rec Rec Re	uic Moisture ducing Cond eyed or Low- though the s	itions Chroma Col soils are sor ar to be hy	mewhat lor dric.	w chroma (chroma valu	Streaking in Sandy So Local Hydric Soils Lk National Hydric Soils plain in Remarks)	oils st List	ξ.	ent. Therefore, the so
Aque Rec Rec Rec Rec Rec Rec Rec Rec Rec Re	DETERIO	itions Chroma Col soils are sor ar to be hy	mewhat lor dric.	w chroma (chroma valu	Streaking in Sandy So Local Hydric Soils Lk National Hydric Soils plain in Remarks)	ills st List prhic feature	es are prese	ent. Therefore, the so
Marks: All no drophytic Value Soils	DETERIOUS Present?	itions Chroma Col soils are sor ear to be hy MINATIO	mewhat lordric.	w chroma (chroma valu	Streaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils plain in Remarks) e = 2), no redoxymo	oils It List prhic feature	es are prese	Yes
Aquince Rec Gle Rec Gl	DETERIO Vegetation Percent? The presence	itions Chroma Col chroma Col coils are sor car to be hy MINATIO Present? ent? of hydroph	mewhat lordric.	w chroma (chroma values	Is this Sampling Potate that the sampling Pot	oint Within a	es are prese Wetland? ithin a wetla	Yes and.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

r roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Kinard, N. Tursich	
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	? No Community ID: PSS Transect ID: A-L05 Plot ID: A-L-WP-10
EGETATION	
Dominant Plant Species 1, Rubus armeniacus 2, Alnus rubra 3	Dominant Plant Species Stratum Indicator 9/0
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: Surface (in.)	Welland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wellands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

Additional Comments: The sampling point is situated in the wetland, near the corner of Lonseth and Gulf in assessment area 9.

roject/Site: ,Gateway Pacific T Applicant/Owner: Pacific I Investigator: E. Hale, V. Mea		Date: 12-Jun-06 County: Whatcom State: Washington			
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	Yes No No	Community ID: PSS Transect ID: L-03 Plot ID: A-UP-07			
EGETATION					
4. Rubus spectabilis 5. Polystichum munitum 6. Rubus parviflorus 7. Athyrium filix-femina	Tree Tree Shrub Herb Shrub Herb d by delineator, not	FACU FAC+ FAC+ FACU FAC- FAC FAC FAC	60 15 30 10 20 10 80 WS.	9	Stratum Indicator %
Recorded Data (Describe in F Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks:		ne (in.)		Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Chate Water-Stained Lead Local Soil Survey Deposits Control Soil Survey Deposits Control Soil Soil Soil Soil Soil Soil Soil So	r 12 Inches s in Wetlands or more required); annels in Upper 12 Inches aves Data

Additional Comments:

The sampling point is located west of A-L03-F10. It is situated in the northeast corner of assessment area 3, and is representative of wetland communities in that area.

Map Unit N Series and Faxonomy							Fiel	inage Class: d Observations firm Mapped Type?
Profile Des Depth inches)	cription; Horizon	Matrix C		Mottle Co		Mottle Abur Size/Contrast		Texture, Concretions, Structure, etc.
0-10	A1	10YR	3/2		None		None	Silt Loam
10-12	A2	10YR	2/2		None	/	None	Silt Loam
12-18	В	10YR	4/2	10YR	2/2	40% /	Faint	Silt Loam
				10YR	4/4	3% /	Distinct	Silt Loam
			Art (= leef about it is the	10YR	4/6	3% /	Faint	Silt Loam
Re Gle	uic Moisture I ducing Condi eyed or Low-C here are no i	tions Chroma Co		oils in the up	Listed on Other (Ex	Local Hydric Soi National Hydric S plain in Remarks	ls List Soils List)	surface layer contains approximately 1 inc
emarks: T	ducing Condi eyed or Low-(tions Chroma Co ndicators on top of so	of hydric s il.	oils in the up	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric S plain in Remarks	ls List Soils List)	surface layer contains approximately 1 inc
emarks: T	ducing Condi ayed or Low-O here are no in rganic leaf or DETERIO Vegetation Person	tions Chroma Co ndicators of top of so	of hydric s il.	oils in the up	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric S plain in Remarks es of the soil pro	is List Soils List) file. The	surface layer contains approximately 1 inc
emarks: T	ducing Condi eyed or Low-O here are no in rganic leaf or DETERIO Vegetation Peresent?	tions Chroma Co ndicators of top of so MINATIO Tresent? ant?	of hydric s il.	No No No	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric S plain in Remarks es of the soil pro	is List Soils List) file. The :	16 222 - 24

roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: M. Kinard, M.		Date: 12-Jun-06 County: Whatcom State: Washington			
Do Normal Circumstanc Is the site significantly d Is the area a potential P (If needed, explain or	listurbed (Atyp Problem Area?	oical Situa	ation)	Yes No No	Community ID: PFO Transect ID: L-02 Plot ID: A-WP-04
Dominant Plant Species 1. Alnus rubra 2. Rubus spectabilis 3. Spiraea douglasii 4. Geum macrophyllum 5. Ranunculus repens 6. Veronica americana 7. Carex obnuota 8. Poa annua 8. *Indicator prefix = assign Percent of Dominant Species that (excluding FAC-).	Shrub Shrub Herb Herb Herb Herb are OBL, FACW or	FACW OBL OBL FAC defined by F	90 25 40 20 20 20 20 20 80 WS.	9	Stratum Indicator % ssigned by delineator, not defined by FWS.
Recorded Data (Describe in Stream, Lake, or Tide Garded Photographs Other No Recorded Data Available lield Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:		ne (in.)		Wetland Hydrology Indicator Primary Indicators: Inundated V Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 of Challed Root Challed Root Challed Root Challed Root Secondary Indicators (2 of Challed Root Challed Root Challed Root Challed Root Soil Survey Deposits FAC-Neutral Test Other (Explain in R	12 Inches in Wellands or more required): nnels in Upper 12 Inches ves

axonomy	(Subgroup):	Aquandic	endoaqual	lfs	Field Observations Confirm Mapped Type?			No		
ofile Des epth iches)	cription; Horizon	Matrix C		Mottle Co		Mottle Abundar Size/Contrast	nce/	Texture, Co Structure, e		ons,
0-3	Α	10YR	3/2		None	/ No	ne		*********	
3-18	A2	2.5YR	3/2	10YR 5/6		35% /		Silt Loam		
		* =========	******	10YR	4/6	5% /		e energy		
						<u>/</u>		n en		
**				-					-	
	stosol				0	222				
Su Aq Re	stic Epipedor Iffidic Odor Juic Moisture educing Cond eyed or Low-	Regime litions Chroma Co		7111	Organic S Listed on Listed on Other (Ex	ons anic Content in Surfa Streaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) r 12 inches indicate	Soils .ist s List			t in the sampling po
Su Aq Re	Ilfidic Odor juic Moisture educing Conc eyed or Low	Regime litions Chroma Co Color and re	edoxymorp ON	7111	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surfa Streaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks)	Soils ist s List that hy	dric soils are p	present	t in the sampling po
TLANE drophytic etland Hy dric Soils marks:	DETER Vegetation drology Present?	Regime litions Chroma Co color and re MINATIO Present?	ON	yes Yes Yes	High Organic S Listed on Listed on Other (Ex	anic Content in Surfa Streaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks)	Soils Jist Solution S	dric soils are p	oresent	Yes
TLANE drophytic etland Hy dric Soils marks:	DETER Vegetation drology Present? Based on the	Regime litions Chroma Co color and re MINATIO Present?	ON	yes Yes Yes	High Organic S Listed on Listed on Other (Ex	anic Content in Surfa Streaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) r 12 inches indicate Is this Sampling	Soils Jist Solution S	dric soils are p	oresent	Yes

r roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Hale, V. Mead		Date: 12-Jun-06 County: Whatcom State: Washington			
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PFO Transect ID: L03 Plot ID: A-WP06			
EGETATION					
Dominant Plant Species 1. Alnus rubra 2. Populus balsamifera 3. Thuja plicata 4. Acer circinatum 5. Rubus spectabilis 6. Lonicera involucrata 7. Cornus sericea A Spiraea douglasii *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 100% of the dominant species are FAC or FACW. Hydrophytic verices are FAC or FACW.	12. Carex obnupta 13. Ranunculus acris 14 15 16 *Indicator prefix = as	Herb FACW- 10			
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations:	Wetland Hydrology Indicators Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns in Secondary Indicators (2 of	12 Inches n Wellands			

axonomy	(Subgroup):	_Typic hap	olorthodslo	pes				l Observations irm Mapped T		No	
								18872	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
ofile Des opth ches)	cription: Horizon	Matrix Color (Munsell Moist)		Mottle C		Mottle Abund	lance/	Texture, Concretions, Structure, etc.			
0-3	Α	10YR	2/1	None			None	Silt			
3-12	В	10YR	4/1	10YR	6/6	3% /		Silty Cla	у		

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		-		-):							
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0.	stic Epipedor	1		-	Concretion		rface I av	er in Sandy S	ite		
— Ac Re ✓ GI	stic Epipedor ilfidic Odor juic Moisture educing Conc eyed or Low-	Regime ditions Chroma Co		hic features	High Org Organic Listed on Listed on Other (E	ons anic Content in Su Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) r 12 inches indicat	Soils List oils List			t in the samp	oling po
Ac Re GI	ow chroma	Regime ditions Chroma Co	edoxymorp	hic features	High Org Organic Listed on Listed on Other (E	anic Content in Su Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List oils List			t in the samp	oling po
Ac Re GI Marks: L	ow chroma	Regime ditions Chroma Co color and re	edoxymorp ON	hic features Yes Yes Yes	High Org Organic Listed on Listed on Other (E	anic Content in Su Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List oils List te that hy	dric soils are p	oresen	t in the samp	oling po
TLANE drophytic drophytic drophytic stland Hy dric Soils marks:	DETER Vegetation I drology Present?	Regime ditions Chroma Color and recolor an	ON	Yes Yes Yes	High Org Organic : Listed on Listed on Other (Ex	anic Content in Su Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List pils List te that hy	dric soils are p	d?	Yes	
TLANE	DETER Vegetation of drology Present? Based on the	Regime ditions Chroma Color and recolor an	ON	Yes Yes Yes	High Org Organic : Listed on Listed on Other (Ex	anic Content in Su Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) r 12 inches indicat	Soils List pils List te that hy	dric soils are plithin a Wetlan	d?	Yes It this data p	ot is in
TLANE Irophytic tland Hy Iric Soils	DETER DETER Vegetation I drology Present? Based on the vetland.	Regime ditions Chroma Color and recolor an	ON Soft hydroph	Yes Yes Yes ytic vegetati	High Org Organic S Listed on Other (E) in the uppe	anic Content in Su Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) r 12 inches indicat	Soils List bils List te that hy Point W	dric soils are plithin a Wetlan	d?	Yes	ot is in

r roject/Site: Gateway Pacific T Applicant/Owner: Pacific I Investigator: E. Hale, M. Villa		Date: 14-Jun-07 County: Whatcom State: Washington	
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atypical Situation oblem Area?	n)? No No	Community ID: Upland Forest Transect ID: B-L02 Plot ID: B-L02-PU-06
EGETATION			
3. Rubus spectabilis 4. Rubus parviflorus 5. Rubus discolor 6. Oemleria cerasiformis 7. Symphoricarpos albus *Indicator prefix = assigned Percent of Dominant Species that a (excluding FAC-). Remarks: 75% of the dominant species	Tree	9. Polystichum munitum 10. 10	
Recorded Data (Describe in F Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Wetland hydrology indica		Welland Hydrology Indicators: Inundated	er 12 Inches ts s in Wetlands 2 or more required): nannels in Upper 12 Inches aves Data

chony	(Subgroup):	Aquandic endoaqua			Confirm Mapped T	ype? No
file Des oth hes)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance Size/Contrast	Texture, C Structure, e	oncretions,
0-13	A	7.5YR 3/2	None	/ none /	Silt Loar	m
Su	stic Epipedon Ilfidic Odor Juic Moisture		Organic S	anic Content in Surface Streaking in Sandy Soils	Layer in Sandy So	oils
Su Aq Re G!	ulfidic Odor quic Moisture educing Cond eyed or Low-	Regime	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surface		oils
LANE	ulfidic Odor quic Moisture educing Cond eyed or Low-	Regime fittions Chroma Colors dicators are not prese MINATION Present?	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surface Streaking in Sandy Soil Local Hydric Soils List National Hydric Soils L	st	
LANE	DETER Vegetation vdrology Present?	Regime fittions Chroma Colors Chroma Colors dicators are not prese MINATION Present?	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surface streaking in Sandy Soils Local Hydric Soils List National Hydric Soils L plain in Remarks)	st nt Within a Wetlan	nd? No

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Hale, M. Villarreal		Date: 14-Jun-06 County: Whatcom State: Washington		
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PSS Transect ID: B-L02 Plot ID: B-L02-PW-05		
EGETATION				
Dominant Plant Species 1. Alnus rubra 2. Spiraea douglasii 3. Lonicera involucrata 3. Lonicera involucrata 4. Symphoricarpos albus 5. Carex obnupta 6. Tee FAC 75 *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 100% of the dominant species are FAC, FACW, or OBL. Hydrople	1213141516*Indicator prefix = as			
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: None (in.)	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns i Secondary Indicators (2 of Water-Stained Leav Local Soil Survey D FAC-Neutral Test Other (Explain in Re	n Wetlands or more required): nnels in Upper 12 Inches ves		

	d Phase): _ ^v (Subgroup):	Aquandic	endoaqua	ılfs			Field	age Class: PO Observations m Mapped Type?	No No	7
9/23/07/1000-1 9 /	(a a a a a a a a a a a a a a a a a a a						001111	птмаррец турет		-14
rofile Des epth nches)	cription: Horizon	Matrix C		Mottle Co		Mottle Abundan Size/Contrast	ice/	Texture, Concre Structure, etc.	tions,	_
0-8	Α	10YR	2/1		None	/ No	ne	Clay Loam		
8-12	В	10YR	4/1	10YR	7/8	5% / Fair	nt	Clay Loam		A Gree
	• • • • • • • • • • • • • • • • • • •									
										=11071
Si	stosol stic Epipedor ulfidic Odor quic Moisture educing Cond eyed or Low	Regime ditions -Chroma Co		ohic features	Listed on Listed on Other (E.	ons anic Content in Surfa Streaking in Sandy So Local Hydric Soils Li National Hydric Soils oplain in Remarks) r 12 inches indicate	oils st List		nt in the samp	ling poi
Si Ak	stic Epipedor ulfidic Odor quic Moisture educing Con- eyed or Low ow chroma	Regime ditions -Chroma Co color and re	edoxymorp	ohic features	High Org Organic Listed on Listed on Other (E	anic Content in Surfa Streaking in Sandy So Local Hydric Soils Li National Hydric Soils oplain in Remarks)	oils st List		nt in the samp	ling poi
— Si — Ac — Rr _ ✓ Gi emarks: [stic Epipedor ulfidic Odor quic Moisture educing Conc eyed or Low	Regime ditions -Chroma Co color and re	edoxymorp	ohic features	High Org Organic Listed on Listed on Other (E	anic Content in Surfa Streaking in Sandy So Local Hydric Soils Li National Hydric Soils oplain in Remarks)	oils st List		nt in the samp	ling poi
Si Ak	stic Epipedor ulfidic Odor quic Moisture educing Conceyed or Low ow chroma	Regime ditions -Chroma Co color and re	edoxymorp ON	Yes	High Org Organic Listed on Listed on Other (E	anic Content in Surfa Streaking in Sandy So Local Hydric Soils Li National Hydric Soils oplain in Remarks) r 12 inches indicate	oils st List that hyd	dric soils are prese	nt in the samp	ling poi
Si Ak	stic Epipedor ulfidic Odor quic Moisture educing Conc eyed or Low ow chroma	Regime ditions -Chroma Co color and re	edoxymort ON		High Org Organic Listed on Listed on Other (E	anic Content in Surfa Streaking in Sandy So Local Hydric Soils Li National Hydric Soils oplain in Remarks)	oils st List that hyd	dric soils are prese	nt in the samp	ling poi
TLANI TLANI rdrophytic etland Hy rdric Soils emarks:	stic Epipedor ulfidic Odor quic Moisture educing Conc eyed or Low ow chroma DETER Vegetation drology Pres	Regime ditions -Chroma Co color and re	ON ot present	Yes No Yes	High Org Organic Listed on Listed on Other (Ex	anic Content in Surfa Streaking in Sandy So Local Hydric Soils Li National Hydric Soils oplain in Remarks) r 12 inches indicate	oils st List that hyd	dric soils are prese	Yes	

roject/Site: Gateway Pacific I Applicant/Owner: Pacific I Investigator: E. Hale			Date: 12-Jun-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atypical Situation) oblem Area?	Yes No No	Community ID: Upland Shrub Transect ID: B-L03 Plot ID: B-L03-40
/EGETATION			
7. Alnus rubra 7. Alnus rubra 8 Dryopteris expansa *Indicator prefix = assigne Percent of Dominant Species that a (excluding FAC-). Remarks: Also present nearby is he	Shrub FAC+ 20 Tree UPL 20 Shrub FACU 20 Shrub FAC- 20 Tree FAC- 20 Tree FAC 75 Herb UPL 25 d by delineator, not defined by FWS. Are OBL, FACW or FAC Silly (Ilex aquifolia), sword fern (Polystic) C or FAC+. Other dominant vegetation in	10	Stratum Indicator % Herb FACU assigned by delineator, not defined by FWS. Symphoricarpos albus). Only 38% of the ecies. Wetland vegetation does not appear
Recorded Data (Describe in F Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:		Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Oxidized Root Cha Water-Stained Lea Local Soil Survey (1 FAC-Neutral Test Other (Explain in Face	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data
Remarks: Wetland hydrology indica	tors are not present.		

xonomy	(Subgroup):	Typic hap	lorthods		Co	ld Observations ofirm Mapped Ty	/pe? Ye	s
ofile Des opth ches)	ecription; Horizon	Matrix C		Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Co Structure, e	oncretions tc.	in .
0-14	Α	10YR	2/2	None	/ None	Loam		
					/			
					<i>1</i>		BEODENISOR	
Hi Hi Si	Indicators: stosol stic Epipedor ulfidic Odor quic Moisture educing Cond	Regime		Organic S	ns inic Content in Surface La treaking in Sandy Soils Local Hydric Soils List	yer in Sandy Sc	ils	
G	leyed or Low	Chroma Co	not prese	Listed on Other (Ex	National Hydric Soils List National Hydric Soils List plain in Remarks)			
Π G marks: ΓLΑΝΙ drophytic	DETER Vegetation	MINATION Present?	ont present	Listed on Other (Ex	National Hydric Soils List ofain in Remarks)			
Grants: FLANI Grophytic tland Hy	DETER	MINATION Present?	on	Listed on Other (Export.)	National Hydric Soils List	Within a Wetlan	d? No	
TLANI frophytic soils marks:	DETER Vegetation rdrology Press Present?	MINATION Present?	ON	Listed on Other (Exponent.	National Hydric Soils List ofain in Remarks)		A serve	
LANI frophyticland Hylric Soils	DETER Vegetation vdrology Press Present?	MINATION Present?	ON	Listed on Other (Exponent.	National Hydric Soils List plain in Remarks)		A serve	
LANI rophytic land Hyric Soils	DETER Vegetation vdrology Press Present? Based on the	MINATION Present?	ON	No No No Victic vegetation, wetland h	National Hydric Soils List plain in Remarks)	, it is determine	ed that th	s data plot is n

r roject/Site: Gateway Pacific Ter Applicant/Owner: Pacific Int Investigator: E. Hale, M. Villarre	ernational Terminals		Date: 10-Jun-06 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dist Is the area a potential Pro (If needed, explain on re	urbed (Atypical Situation) blem Area?	? No No	Community ID: PFO Transect ID: B-L04 Plot ID: B-L04-1W
EGETATION			
2. Rubus spectabilis 3. Phalaris arundinacea 4. Carex sp. 5. Carex obnupta 6. Urtica dioica 7. Populus tremuloides Alnus rubra *Indicator prefix = assigned because that are (excluding FAC-). Remarks: Lady fern (Athyrium filix-fer	Herb FACW 20 Herb NI 20 Herb OBL 20 Herb FAC+ 20 Tree FAC+ 20 Tree FAC 75 y delineator, not defined by FWS. OBL, FACW or FAC	10	assigned by delineator, not defined by FWS.
Recorded Data (Describe in Rer Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: The sampling point is locate	None (in.) None (in.) None (in.)	.✓_ Water-Stained Lea Local Soil Survey D FAC-Neutral Test Other (Explain in R	12 Inches in Wellands or more required): innels in Upper 12 Inches ves Data emarks)

ixonomy	(Subgroup):	Aquandic	endoaqua	ılfs				d Observations firm Mapped Ty		
ofile Des opth ches)	eription; Horizon	Matrix C (Munse		Mottle Co		Mottle Abu		Texture, Co	encretions, c.	
0-6	A	10YR	3/1	TARAMOE	None		None	Silt Loan	<u> </u>	
6-13	В	10YR	4/2	7.5YR	4/6	30% /		Silt		Tom.
				W. University		/				
										, .
				-					··	
Hi Hi St Ac	Indicators: stosol stic Epipedon ulfidic Odor uic Moisture educing Cond eyed or Low-	Regime litions	Table (or -		_ Organic _ Listed or	ons ganic Content in S Streaking in Sanc n Local Hydric So n National Hydric	ly Soils Is List	ver in Sandy So	ils	
				ohic features i	_ Other (E	xplain in Remarks)	ydric soils are p	resent in the sampl	ing p
TLANI		MINATIO	edoxymorp ON	ohic features i Yes Yes Yes	_ Other (E	xplain in Remarks	ate that h	ydric soils are p		ing p
TLANE Trophytic tland Hy Iric Soils	DETER Vegetation I	MINATION Present?	ON	Yes Yes Yes	Other (E	xplain in Remarks er 12 inches indic	ate that h	/ithin a Wetland		
TLANE Trophytic tland Hy Iric Soils	DETER Vegetation Indrology Present? The presence	MINATION Present?	ON hytic vege	Yes Yes Yes tation, wetlar	Other (E	ls this Sampli	ng Point V	ithin a Wetland that the samplin	d? Yes	wetla

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Hale, M. Villarreal		Date: 10-Jun-06 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: Upland Forest Transect ID: B-L04 Plot ID: B-L04-PU-02
/EGETATION		
Dominant Plant Species 1. Alnus rubra 2. Sorbus aucuparia 3. Rubus spectabilis 4. Sambucus racemosa 5. Symphoricarpos albus 6. Maianthemum dilatatum 7. Herb 8. FACU 7. FACU 7. FACU 7. FACU 7. FACU 8. Sinub FACU 7. FACU 7. FACU 8. FACU 7. FACU 8. FACU 9.	9	Stratum Indicator % ssigned by delineator, not defined by FWS.
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: None (in.) Depth to Saturated Soil: None (in.) Remarks:	Wetland Hydrology Indicators Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Cha Water-Stained Lea Local Soil Survey D FAC-Neutral Test Other (Explain in R	12 Inches in Wellands or more required): innels in Upper 12 Inches ves Data

conomy (Subgroup): _Aquandic endoaqualfs							Field Confi	rm Mapped Ty		
ofile Des pth ches)	cription: Horizon	Matrix C (Munsel		Mottle Co		Mottle Abur Size/Contrast		Texture, Co		
0-8	Α	7.5YR	2.5/3		None	/	None	Silt Loar	n	
8-16	Α	7.5YR	2.5/3	7.5YR	4/6	50% /	Prominent	Silt Loan		
						<i>I</i>				

	r Taranaa									
— Hi	Indicators: stosol stic Epipedor ulfidic Odor quic Moisture educing Cond	Regime		-	Organic	ons anic Content in S Streaking in Sand Local Hydric Soi	ly Soils	er in Sandy So	ils	
marks: _F	Redoximorph soils are not	Chroma Co ic features present.	are preser	nt in the uppe	Listed or Dither (E:	National Hydric solation in Remarks s, but the soils do	Soils List s)	t low chroma	color, indic	ating that hydri
TLANE drophytic tland Hy dric Soils	DETER Vegetation vdrology Press Present?	ic features present. MINATIO	on	Yes No No	Listed on Other (E	i National Hydric pplain in Remarks	Soils List not exhib	ithin a Wetlan	d? No	

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Hale, M. Villarreal		Date: 14-Jun-06 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PFO Transect ID: B-L05 Plot ID: B-L05-PW-07
EGETATION		
Populus balsamifera	9, Carex sp. 10 10	Stratum Indicator % Herb NI 30 ssigned by delineator, not defined by FWS.
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: None (in.) Depth to Saturated Soil: Surface (in.)	Wetland Hydrology Indicators Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 COM Could Root Chate) Water-Stained Lead Local Soil Survey DESAC-Neutral Test Other (Explain in R	12 Inches in Wetlands or more required): nnels in Upper 12 Inches ves

axonomy	(Subgroup):	Aquandic	endoaqua	lfs			Fie Cor	ld Observations nfirm Mapped Type? No
Profile Des Depth Inches)	scription; Horizon	Matrix C		Mottle Co		Mottle Abu Size/Contrast		Texture, Concretions, Structure, etc.
0-6	Α	7.5YR	3/1	7.5YR	6/6	15% /	/ Faint	Clay Loam
6-12	В	10YR		10YR		40% /		Silt Loam
	T. CHINGSTON				nnámu ma	/		
		* **********						
		t Roomea	URD-DOTE:			·		
H H Si	Indicators: istosol istic Epipedor ulfidic Odor quic Moisture	Regime		-	_ Organic		dy Soils	yer in Sandy Soils
202006-	educing Conc leyed or Low- Low chroma o	Chroma Co		hic features i	Listed or Other (E	n National Hydric Explain in Remark	Soils List s)	ydric soils are present in the sampling po
TLANI	leyed or Low-	Chroma Co	edoxymorp ON	Yes Yes	Listed or Other (E	n National Hydric Explain in Remark	Soils List s) cate that h	80-80-82 Tables 10 May
TLANI ydrophytic etland Hy ydric Soils emarks:	D DETER C Vegetation of verology Pressent?	Chroma Co color and re MINATIO Present? ent?	ON	Yes Yes Yes	Listed of Other (E	n National Hydric Explain in Remark er 10 inches indic	Soils List s) cate that I	
TLANI ydrophytic etland Hy ydric Soils emarks:	D DETER C Vegetation by ydrology Present? Based on the	Chroma Co color and re MINATIO Present? ent?	ON	Yes Yes Yes	Listed of Other (E	n National Hydric Explain in Remark er 10 inches indic	Soils List s) cate that I	Vithin a Wetland? Yes
TLANI ydrophytic etland Hydric Soils	D DETER C Vegetation lydrology Press Present? Based on the wetland.	MINATIO Present? ent? presence of	ON of hydroph	Yes Yes Yes ytic vegetation	Listed of Other (E	Is this Sampled hydrology and hydrology and	Soils List s) cate that h	Vithin a Wetland? Yes s, it is determined that this data plot is in

roject/Site: .Gateway Pacific Applicant/Owner: _Pacific Investigator: _E. Hale, M. Vi	International Terminals		Date: 13-Jun-06 County: Whatcom State: Washington
Do Normal Circumstanc Is the site significantly d Is the area a potential F (If needed, explain or	listurbed (Atypical Situation Problem Area?	n)? No No	Community ID: PFO Transect ID: B-L06 Plot ID: B-L06-PW8
Dominant Plant Species	Stratum Indicator %		Stratum Indicator %
Alnus rubra Rubus spectabilis	Tree FAC 55		
	Shrub FAC+ 30	121	
Lysichiton americanum Athyrium filix-femina	Herb OBL 40 Herb FAC 30	Literatura in announce and	
4. Athyrium filix-femina 5. Oemleria cerasiformis	Herb FAC 30 Herb FACU 20		
6. Polystichum munitum	Herb FACU 20	S	
7. Acer circinatum			
Ranunculus acris	Herb FACW- 40	A STATE OF THE STA	
*Indicator prefix = assign	ned by delineator, not defined by FWS.		assigned by delineator, not defined by FWS.
Percent of Dominant Species that (excluding FAC-). Remarks: 60% of the dominant s	species are FAC, FACW, or OBL. Hydrop	ohytic vegetation is present.	
YDROLOGY		_	
Recorded Data (Describe in		Wetland Hydrology Indicate Primary Indicators: Inundated	
Stream, Lake, or Tide G Aerial Photographs			
Aerial PhotographsOther		☐ Saturated in Uppe ✓ Water Marks ✓ Drift Lines	
☐ Aerial Photographs ☐ Other No Recorded Data Available		✓ Water Marks ✓ Drift Lines ✓ Sediment Deposi ✓ Drainage Patterns	ts s in Wellands
☐ Aerial Photographs☐ Other No Recorded Data Available	1(in.)	✓ Water Marks ✓ Drift Lines ✓ Sediment Deposi ✓ Drainage Patterns Secondary Indicators (2 Oxidized Root Ch	ts s in Wellands 2 or more required); nannels in Upper 12 Inches
☐ Aerial Photographs ☐ Other No Recorded Data Available Field Observations:		✓ Water Marks ✓ Drift Lines ✓ Sediment Deposi ✓ Drainage Patterns Secondary Indicators (2 Oxidized Root Ch Water-Stained Le	ts s in Wellands 2 or more required); nannels in Upper 12 Inches naves Data
☐ Aerial Photographs ☐ Other ☑ No Recorded Data Available Field Observations: Depth of Surface Water:	1(in.)	✓ Water Marks ✓ Drift Lines ✓ Sediment Deposi ✓ Drainage Patterns Secondary Indicators (2	ts s in Wetlands 2 or more required); nannels in Upper 12 Inches naves Data

exonomy	(Subgroup):	Typic haplorthods		Field Observations Confirm Mapped Type? No		
ofile Des opth ches)	cription; Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundand	e/ Texture,	Concretions,
0-12	Α	7.5YR 2.5/1	None	/ None	Silt Lo	oam
				i		
				1		
	7/V			1		
wanes	-					
dric Soil	Indicators:					
St	stic Epipedon ulfidic Odor quic Moisture		Organic S	nic Content in Surfac treaking in Sandy Soi Local Hydric Soils Lis	ils	SOIIS
.✓ G	educing Cond leyed or Low-	litions Chroma Colors	Listed on I Other (Ex	National Hydric Soils I Dlain in Remarks)		e present in the sampling poi
Region of the control	educing Cond leyed or Low- Pebbles were	ditions Chroma Colors observed throughout MINATION Present? sent?	Listed on Low Chr Other (Exp	National Hydric Soils Iolain in Remarks) oma color indicate th	nat hydric soils ar	
Region of Giller	D DETER Vegetation Industrials Versent?	MINATION Present? sent?	Listed on lother (Exp	National Hydric Soils lolain in Remarks) oma color indicate the state of the state	nat hydric soils ar Sint Within a Wet	
Registration of the control of the c	DETER C Vegetation I drology Present? Based on the	MINATION Present? sent?	Listed on lother (Exp	National Hydric Soils lolain in Remarks) oma color indicate the state of the state	oint Within a Wet	land? Yes
TLANI drophytic stland Hy dric Soils marks:	DETER Vegetation I vdrology Present? Based on the wetland.	MINATION Present? sent? presence of hydroph	the soil profile. Low chr	National Hydric Soils lolain in Remarks) oma color indicate the last this Sampling Potential Sampling Poten	oint Within a Wet	land? Yes mined that this data plot is in Approved by HQUSACE 3/92
Registration of the control of the c	DETER Vegetation I vdrology Present? Based on the wetland.	MINATION Present? sent? presence of hydroph	Listed on lother (Exp	National Hydric Soils lolain in Remarks) oma color indicate the last this Sampling Potential Sampling Poten	oint Within a Wet	land? Yes mined that this data plot is in Approved by HQUSACE 3/92

	County: Whatcom State: Washington
Yes No No	Community ID: Upland Forest Transect ID: B-L06 Plot ID: B-L-06-UP-11
10	
Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns i Secondary Indicators (2 of Oxidized Root Chair Water-Stained Leav Local Soil Survey D FAC-Neutral Test Other (Explain in Re	12 Inches in Wetlands or more required): nnels in Upper 12 Inches wes
	Dominant Plant Species 9

axonomy	(Subgroup): _	Турістар	lorthods		Confirm Mapped Type? Yes		
ofile Des epth nches)	scription: Horizon	Matrix C		Mottle Colors (Munsell Moist)	Mottle Abundance Size/Contrast	Texture, Con Structure, etc	
0-9	A 10YR 3/2		None	/ None	Loam		
9-14	A2			/ None		Sandy Loam	
					·i		**************************************
		1000000000			·	-A	
- A	stic Epipedon ulfidic Odor quic Moisture I educing Cond	tions	erculet	Organic Str Listed on L Listed on N	nic Content in Surface reaking in Sandy Soil ocal Hydric Soils List National Hydric Soils L		5
A R G	ulfidic Odor quic Moisture I	tions Chroma Co		High Orgar Organic Str Listed on L Listed on N Other (Exp	nic Content in Surface reaking in Sandy Soil ocal Hydric Soils List		5
emarks:	ulfidic Odor quic Moisture I educing Condi leyed or Low-(MINATIONS Present?	on	High Orgar Organic Str Listed on L Listed on N Other (Exp	nic Content in Surface reaking in Sandy Soil ocal Hydric Soils List National Hydric Soils L	st	
emarks:	ulfidic Odor quic Moisture I educing Condi leyed or Low-0 Hydric soil ind D DETERI c Vegetation F ydrology Pres s Present?	VINATI Present?	ON	High Orgar Organic Str Listed on L Listed on N Other (Exp	nic Content in Surface reaking in Sandy Soil .ocal Hydric Soils List vational Hydric Soils List vational Hydric Soils Liain in Remarks)	nt Within a Wetland	? N o
emarks:	ulfidic Odor quic Moisture I educing Condi leyed or Low-0 Hydric soil ind D DETERI c Vegetation F ydrology Pres s Present?	VINATI Present?	ON	High Organ Organic Str Listed on L Listed on N Other (Exp	nic Content in Surface reaking in Sandy Soil .ocal Hydric Soils List vational Hydric Soils List vational Hydric Soils Liain in Remarks)	nt Within a Wetland	? N o

roject/Site: Gateway Pacific Terr Applicant/Owner: Pacific Inte Investigator: E. Hale, K. Dunkin	rnational Terminals			Date: 16-Jun-06 County: Whatcom State: Washington
Do Normal Circumstances of Is the site significantly distu- Is the area a potential Prob (If needed, explain on re	urbed (Atypical S olem Area?	170	Yes No No	Community ID: PEM Transect ID: Field "N" Plot ID: B-N-PW-12
EGETATION				
Dominant Plant Species 1. Carex obnupta 2. Juncus ensifolius 3. Juncus effusus 4. Alopecurus pratensis 5. Cirsium arvense 6 *Indicator prefix = assigned by Percent of Dominant Species that are (excluding FAC-). Remarks: 100% of the dominant species	Herb FACV Herb FACV Herb FACV Herb FACV Y delineator, not defined	30 N 30 N 20 N 10 J+ 15	9	
Recorded Data (Describe in Ren Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:	None None 14 ace but only saturated u	_(in.) _(in.) _(in.) p to 14 inche of the growin	Water-Stained Lea Local Soil Survey D FAC-Neutral Test Other (Explain in R	: 12 Inches in Wellands or more required): innels in Upper 12 Inches ives Data

ixonomy	(Subgroup):	/hitehorn s _Aquandic		lfs			Oralinage Class:
ofile Des opth ches)	cription; Horizon	Matrix C (Munse		Mottle Co		Mottle Abundance Size/Contrast	Texture, Concretions, Structure, etc.
0-8	Α	2.5Y	2.5/1		None	/ None	Silt Loam
9-15	В	2.5Y	5/2	7.5Y	5/4	40% /	Silt Loam with fine gravels
						/	
		-					
His	stosol stic Epipedon Ifidic Odor uic Moisture	Regime		-	Concretic	anic Content in Surface Streaking in Sandy Soils	Layer in Sandy Soils
.✔_ Gle narks: _F u	ducing Condeyed or Low- ine roots pre pper 12 inch	esent in the	z A Horizon that hydri	and root chic soils are pr	Listed on Listed on Other (Ex	n Local Hydric Soils List n National Hydric Soils List explain in Remarks) the B Horizon. Low chroic e sampling point.	at color and redoxymorphic features in the
TLANE	ine roots pre	Chroma Construction Cons	A Horizon that hydri	and root chaic soils are provided and root chaic soils are provided ar	Listed on Listed on Other (Ex	n National Hydric Soils Lis xplain in Remarks) 	na color and redoxymorphic features in the
LAND rophytic land Hyric Soils	DETER Vegetation F drology Pres Present?	MINATIO Present? ent?	A Horizon that hydri	Yes No Yes	Listed on Listed on Other (Examples in the	n National Hydric Soils Liseplain in Remarks) The B Horizon. Low chrouge sampling point.	na color and redoxymorphic features in the

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

			us Deiliteation Maridal)		
r-roject/Site: ,Gateway Pacific Te	erminal			Date: 30-Jan-07	
Applicant/Owner: Pacific In			County: Whatcom		
Investigator: <u>E. Hale, J. Rock</u>	***********			State: Washington	
Do Normal Circumstances Is the site significantly dist Is the area a potential Pro (If needed, explain on r	turbed (Atypoblem Area?	ical Situation	Yes No No	Community ID: Upland Meadow Transect ID: B-L08 Plot ID: B-PU-20	
EGETATION					
Dominant Plant Species	Stratum	Indicator %	Dominant Plant Species	Stratum Indicator %	
Death its also at	Shrub				
2. Dactylis glomerata		The state of the s	10		
Agrostis sp. Rubus ursinus	Herb	_ <u>NI</u> 10	11		
4. Rubus ursinus	Shrub	FACU 5			
9			13		
7			14		
<i>(</i> ,			15		
*Indicator prefix = assigned	by delineator, not	defined by FWS		assigned by delineator, not defined by FWS.	
Percent of Dominant Species that are (excluding FAC-). Remarks: One dominant species in the seed heads during the Januvegetation is not present in the seed heads during the Januvegetation is not present in the seed heads during the Januvegetation is not present in the seed heads during the Januvegetation is not present in the seed heads during the Januvegetation is not present in the seed heads during the seed hea	ne sampling point uary sampling. Al	is an unidentified A	grostis that is likely upland, but re uding the dominant species (Dact	emains unconfirmed due to the absence of cylis glomerata), are FACU. Hydrophytic	
Recorded Data (Describe in Re Stream, Lake, or Tide Gaug Aerial Photographs Other No Recorded Data Available			Welland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks		
Field Observations:			Drift Lines Sediment Deposits Drainage Patterns	3 in Wellands	
Depth of Surface Water:	Nor	e(in.)	Secondary Indicators (2 Oxidized Root Cha	or more required): annels in Upper 12 Inches	
Depth to Free Water in Pit:	Nor	e(in.)	Water-Stained Lea Local Soil Survey [
Depth to Saturated Soil:	Non	e(in.)	FAC-Neutral Test Other (Explain in R		
Remarks: Wetland hydrology indicato	rs are not present				

	(Subgroup):	Typic haplorthods			d Observations firm Mapped Type? Yes	
ofile Des epth nches)	scription; Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.	
0-16	A	A 10YR 3/4 10YR		3% / Faint	Sandy Loam	
					· ·	
			-: >####################################	- 		
				-		
H H S A R G		Regime	Listed on Listed on Other (Ex	ons anic Content in Surface Lay Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	yer in Sandy Soils	
drophyti etland H dric Soil	c Vegetation ydrology Pres s Present?	sent?	No No No n, wetland hydrology, and	Is this Sampling Point V	Vithin a Wetland? No the sampling point is not within a wetland	

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Hale, J. Rock, E. Christensen		Date: 01-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: Upland Forest Transect ID: Plot ID: B-PU-23

VEGETATION

Dominant Plant SpeciesStratumIndicator%1. Rubus discolorShrubFACU102. Rubus spectabilisShrubFAC+70	9
3. Alnus rubra Tree FAC 90 4 5 6 7 *Indicator prefix = assigned by delineator, not defined by FWS.	13.57000000000000000000000000000000000000
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 100% of dominant vegetation is FAC or FAC+. Hydrophytic vegetation	getation is present.
	, oracle in the process of the proce

HYDROLOGY

 — Recorded Data (Describe in Rema — Stream, Lake, or Tide Gauge — Aerial Photographs — Other — No Recorded Data Available 	ks):	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks
Field Observations:		Drift Lines Sediment Deposits Drainage Patterns in Wetlands
Depth of Surface Water:	None(in.)	Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves
Depth to Free Water in Pit:	None (in.)	Local Soil Survey Data FAC-Neutral Test
Depth to Saturated Soil:	None (in.)	Other (Explain in Remarks)

xonomy	(Subgroup):	Typic hap	olorthods			Field Observations Confirm Mapped Ty		Yes	
		7			11/75	John Mapped 1	yper		
ofile Des pth ches)	Scription: Horizon	Matrix C		Mottle Colors (Munsell Moist)	Mottle Abundance Size/Contrast	/ Texture, Co		ns,	
0-3	0	O 10YR 2/1		None	/ None	lone			
3-14	Α	10YR	10YR 3/3 None		/ None	Silt Loar	Silt Loam		
		-		-	/				
				T: :	/		ne Pilem		
	W154W5348W5555								
-	Indicators:								
H	stosol stic Epipedor	1		Concretion High Organ	nic Content in Surface	Layer in Sandy So	oils		
A	ulfidic Odor quic Moisture	Regime		Organic St	reaking in Sandy Soil:				
D				Listed on L	ocal Hydric Soils List				
G	educing Cond leyed or Low	ditions	olors	_ Listed on N	.ocal Hydric Soils List lational Hydric Soils L lain in Remarks)	st			
G	educing Cond leyed or Low-	ditions Chroma Co		Listed on N Other (Exp	lational Hydric Soils L	st			
G marks: Irophytitland H	leyed or Low	ditions Chroma Co	e not prese	Listed on N Other (Exp	lational Hydric Soils L		d?	No	
LANI rophytic	D DETER C Vegetation	ditions Chroma Co	e not prese	Listed on N Other (Exp	lational Hydric Soils L Iain in Remarks)		id? [Ñ	No	
LANI rophytic	D DETER Vegetation vdrology Press Present?	MINATIONS MINATION Present?	ON	Listed on N Other (Exp	lational Hydric Soils L lain in Remarks)	nt Within a Wetlan	1000		d.
LANI rophytic	D DETER Vegetation vdrology Press Present?	MINATIONS MINATION Present?	ON	Tes	lational Hydric Soils L lain in Remarks)	nt Within a Wetlan	1000		d.
LANI rophytiland H	D DETER Vegetation vdrology Press Present?	MINATIONS MINATION Present?	ON	Tes	lational Hydric Soils L lain in Remarks)	nt Within a Wetlan	1000		d.
LANI rophytiland H	D DETER Vegetation vdrology Press Present?	MINATIONS MINATION Present?	ON	Tes	lational Hydric Soils L lain in Remarks)	nt Within a Wetlan	1000		d.
LANI rophytiland H	D DETER Vegetation vdrology Press Present?	MINATIONS MINATION Present?	ON	Tes	lational Hydric Soils L lain in Remarks)	nt Within a Wetlan	1000		d.
LANI rophytic	D DETER Vegetation vdrology Press Present?	MINATIONS MINATION Present?	ON	Tes	lational Hydric Soils L lain in Remarks)	nt Within a Wetlan	1000		d.
LANI rophyticland H	D DETER Vegetation vdrology Press Present?	MINATIONS MINATION Present?	ON	Tes	lational Hydric Soils L lain in Remarks)	nt Within a Wetlan	not with		
LANI rophytiland H	D DETER C Vegetation ydrology Press Present? Based on the	MINATION AND AND AND AND AND AND AND AND AND AN	ON ON Iystichum n	Tes	lational Hydric Soils Lain in Remarks) Is this Sampling Point, it is determined that is, it is determined that eccess, are present fur	nt Within a Wetlan t this data plot is r	proved	in a wetland	CE 3/9

Applicant/Owner: Pacific I Applicant/Owner: Pacific I Investigator: E. Hale, J. Rock	nternational Terminals		Date: 01-Feb-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atypical Situation oblem Area?	Yes No No	Community ID: Upland Forest Transect ID: B-L24 Plot ID: B-PU-25
EGETATION	-		
2. Alnus rubra 3. Rubus spectabilis 4. Polystichum munitum 5. Ilex aquifolium 6 *Indicator prefix = assigned Percent of Dominant Species that a (excluding FAC-).	Shrub FAC+ 25 Herb FACU 5 Shrub NI 1 d by delineator, not defined by FWS.	10	essigned by delineator, not defined by FWS.
Recorded Data (Describe in R Stream, Lake, or Tide Gat Aerial Photographs Other No Recorded Data Available		Welland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Cha	12 Inches in Wetlands or more required): unnels in Upper 12 Inches

xonomy	(Subgroup):	Aquandic endoaqua	lfs		ld Observations nfirm Mapped Type? N/A
ofile Des pth ches)	scription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-3	0				Structure, etc.
3-16	A			- /	Sand
				-	
		4			
				/	
	Indicators: stosol				
H	stic Epipedor ulfidic Odor	V.	Concretic	ons anic Content in Surface La Streaking in Sandy Soils	yer in Sandy Soils
				ou caking in dandy dons	
R	quic Moisture educing Cond	Regime ditions	Listed on	Local Hydric Soils List	
R	educing Cond	Regime ditions Chroma Colors	Listed on Listed on	n Local Hydric Soils List n National Hydric Soils List xplain in Remarks)	
R	educing Cond leyed or Low-	ditions Chroma Colors	Listed on Listed on Other (Ex	n Local Hydric Soils List n National Hydric Soils List xplain in Remarks)	ne sampling point
R	educing Cond leyed or Low-	ditions Chroma Colors	Listed on Listed on Other (Ex	Local Hydric Soils List National Hydric Soils List	ne sampling point.
R	educing Cond leyed or Low-	ditions Chroma Colors	Listed on Listed on Other (Ex	n Local Hydric Soils List n National Hydric Soils List xplain in Remarks)	ne sampling point.
R	educing Cond leyed or Low-	ditions Chroma Colors	Listed on Listed on Other (Ex	n Local Hydric Soils List n National Hydric Soils List xplain in Remarks)	ne sampling point.
R	educing Cond leyed or Low-	ditions Chroma Colors	Listed on Listed on Other (Ex	n Local Hydric Soils List n National Hydric Soils List xplain in Remarks)	ne sampling point.
Right Grant	educing Concleyed or Low-	ditions Chroma Colors le could not be compl	Listed on Listed on Other (Ex	n Local Hydric Soils List n National Hydric Soils List xplain in Remarks)	ne sampling point.
narks: -	educing Concleyed or Low-	ditions Chroma Colors le could not be comple MINATION	Listed on Listed on Cother (Ex	n Local Hydric Soils List n National Hydric Soils List xplain in Remarks)	ne sampling point.
Regionarks: -	D DETER C Vegetation	ditions Chroma Colors le could not be comple MINATION Present? sent?	Listed on Listed on Cother (Experience) Jeted due to heavy concerns on the concerns of the co	n Local Hydric Soils List I National Hydric Soils List Explain in Remarks) Entration of roots within the	
Regionarks: -	D DETER	ditions Chroma Colors le could not be comple MINATION Present? sent?	Listed on Listed on Cother (Extended due to heavy concerns)	n Local Hydric Soils List n National Hydric Soils List xplain in Remarks)	
LANI Irophytitland Hylric Soils	D DETER C Vegetation ydrology Present?	MINATION Present?	Yes No NA	Local Hydric Soils List I National Hydric Soils List Explain in Remarks) Entration of roots within the	Within a Wetland?
LANI Irophytitland Hylric Soils	D DETER C Vegetation ydrology Present?	MINATION Present?	Yes No NA	n Local Hydric Soils List I National Hydric Soils List Explain in Remarks) Entration of roots within the	Within a Wetland?
LANI rophytic	D DETER C Vegetation ydrology Present?	MINATION Present?	Yes No NA	Local Hydric Soils List I National Hydric Soils List Explain in Remarks) Entration of roots within the	Within a Wetland?
LANI rophytic	D DETER C Vegetation ydrology Present?	MINATION Present?	Yes No NA	Local Hydric Soils List I National Hydric Soils List Explain in Remarks) Entration of roots within the	Within a Wetland?
LANI rophytic	D DETER C Vegetation ydrology Present?	MINATION Present?	Yes No NA	Local Hydric Soils List I National Hydric Soils List Explain in Remarks) Entration of roots within the	Within a Wetland?
LANI rophytic	D DETER C Vegetation ydrology Present?	MINATION Present?	Yes No NA	Local Hydric Soils List I National Hydric Soils List Explain in Remarks) Entration of roots within the	Within a Wetland?
LANI rophytic	D DETER C Vegetation ydrology Present?	MINATION Present?	Yes No NA	Local Hydric Soils List I National Hydric Soils List Explain in Remarks) Entration of roots within the	Within a Wetland? No
LANI Irophytitland Hylric Soils	D DETER C Vegetation of very least on the sampling The sa	MINATION Present? e absence of wetland	Yes No NA hydrology, it is determine	Local Hydric Soils List National Hydric Soils List Explain in Remarks) Pentration of roots within the list this Sampling Point Valued that this data plot is not set that this data plot is not set that the list data plot is not set the list data plot is not set that the list data plot is not set the list data plot data plot is not set the list data plot is not set the list data plot data	Within a Wetland?

roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: E. Hale, M. Vil	International Terminals			Date: 17-Jun-06 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly d Is the area a potential P (If needed, explain or	isturbed (Atypical Situa roblem Area?	ation)'	Yes No No	Community ID: PEM Transect ID: Near Shore Plot ID: B-PW-14
EGETATION				
3. Typha latifolia 4. Scirpus microcarpus 5. Eleocharis palustris 6. Potentilla anserina 7. Carex obnuota Distichlis spicata	Shrub FACW Herb OBL Herb OBL Herb OBL Herb OBL Herb OBL Herb OBL Herb FACW need by delineator, not defined by face of the company of the comp	20 20 30 20 20 30 10 20	10	Stratum Indicator % assigned by delineator, not defined by FWS.
Recorded Data (Describe in Stream, Lake, or Tide G Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:	Sauge		Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Uprift Lines Sediment Deposite Uprainage Patterns Secondary Indicators (2 Water-Stained Lea Local Soil Survey FAC-Neutral Test Other (Explain in F	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves Data

axonomy	(Subgroup):	Entic haploxerolls			d Observations firm Mapped Type?
ofile De epth oches)	scription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-14	0	7.5YR 2.5/3	None	/ None	Peat-like
				- <u>I</u>	13. (3.17.23-19.19.17.13.34.14.13.14.13.14.14.14.14.14.14.14.14.14.14.14.14.14.
			72 (7.0 A.H. M. M.		
	S	-			
A R		Regime ditions Chroma Colors organic humus and st	Organic S Listed on Listed on Other (Ex	inic Content in Surface Lay treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	× *
		- PO	anding Natel 15 present.	nyuric soils are present	in the sampling point.
drophyti etland H	D DETER c Vegetation ydrology Pres s Present?	MINATION Present?	Yes Yes Yes	Is this Sampling Point V	
drophyti etland H dric Soil	c Vegetation ydrology Pres s Present?	MINATION Present? sent?	Yes Yes Yes	ls this Sampling Point V	
Irophyti tland H Iric Soil	c Vegetation ydrology Pres s Present? Based on the	MINATION Present? sent?	Yes Yes Yes	ls this Sampling Point V	Vithin a Wetland? Yes
drophyti etland H	c Vegetation ydrology Pres s Present? Based on the wetland.	MINATION Present? sent? Presence of hydroph	Yes Yes Yes ytic vegetation, wetland	ls this Sampling Point V	Vithin a Wetland?

rroject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: E. Hale, M. Villa	International Terminals			Date: 17-Jun-06 County: Whatcom State: Washington
Do Normal Circumstance s the site significantly di s the area a potential Po (If needed, explain on	sturbed (Atypical roblem Area?		Yes No No	Community ID: PFO Transect ID: B-PW-16
Dominant Plant Species Lysichiton americanum Maianthemum dilatatum Equisetum telmateia Athyrium filix-femina Dicentra formosa Cornus stolonifera Rubus spectabilis Alnus rubra *Indicator prefix = assignation of the dominant species that (excluding FAC-).	Herb QE Herb FA Herb FA Herb FA Herb FA Herb FA Herb FA Herb FA Tree FA ed by delineator, not defir	CW 5 C 10 CU 25 CW 20 C+ 40 C 60 need by FWS.	11	Stratum Indicator %
'DROLOGY				

xonomy	(Subgroup):	Typic hapl	orthods				bservations Mapped Ty		No	
ofile Des opth ches)	scription: Horizon	Matrix Co		Mottle Colors (Munsell Moist)	Mottle Abundar Size/Contrast		Texture, Co Structure, e		ons,	
0-16	A	7.5YR	2.5/1	None	/ No	ne	Silt		-1986-	410000
		_		-	-					
							2	real in the		
					/					
Hi Y Si	Indicators: stosol stic Epipedor ulfidic Odor			Organic S	nic Content in Surfa	oils	in Sandy Sc	ils		(
Α.	quic Moisture	Dogima		organio o	a canning in canay c					
R	educing Cond	ditions		_ Listed on I	Local Hydric Soils L National Hydric Soils	ist				
Re	educing Cond leyed or Low	ditions Chroma Col	PARTENIA	_ Listed on I	National Hydric Soils plain in Remarks)	ist s List	nt in the sai	mpling	ı point.	
Registration of the second of	DETER	MINATIC Present?	e presence	Listed on I Other (Exp	National Hydric Soils plain in Remarks)	ist s List	nt in the sa	mpling	j point.	
Region of the control	educing Concleyed or Low Low chroma	ditions Chroma Col color and th MINATIC Present?	e presence	Eisted on Listed on Cother (Exp	National Hydric Soils plain in Remarks)	ist s List are prese			point.	
TLANI Irophytic tland Hylric Soils	DETER Vegetation vdrology Press Present?	MINATIC Present?	e presence	Listed on Other (Expended of a sulfidic odor indication) Yes	National Hydric Soils plain in Remarks) te that hydric soils Is this Sampling I	ist s List are prese	in a Wetlan	d?	Yes	a plot is in
LANI rophyticitand Hyric Soils	DETER Vegetation vdrology Present? Based on the	MINATIC Present?	e presence	Listed on Other (Expended of a sulfidic odor indicated odor i	National Hydric Soils plain in Remarks) te that hydric soils Is this Sampling I	ist s List are prese	in a Wetlan	d?	Yes	a plot is in
LANI rophyticiland Hyric Solls	DETER Vegetation vdrology Present? Based on the	MINATIC Present?	e presence	Listed on Other (Expended of a sulfidic odor indicated odor i	National Hydric Soils plain in Remarks) te that hydric soils Is this Sampling I	ist s List are prese	in a Wetlan	d?	Yes at this data	M
LANI rophyticitand Hyric Soils	DETER Vegetation vdrology Present? Based on the wetland.	MINATIC Present? sent?	ON S	Listed on Other (Expended of a sulfidic odor indicated odor i	National Hydric Soils plain in Remarks) Is this Sampling Financial the soils sampling in the soils sampling i	Point With	in a Wetlan is determin	d? ed tha	Yes at this data	SACE 3/92

rroject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Hale, J. Rock	Date: 30-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes Community ID: PEM Transect ID: B-L09 Plot ID: B-PW-17
EGETATION	
Dominant Plant Species 1. Phalaris arundinacea 2. Rubus armeniacus 3. Shrub 4. FACU 3 3. FACU 5. FACU 5. FACU 7. FIndicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 100% of dominant vegetation is FACW. Hydrophytic vegetation	Dominant Plant Species Stratum Indicator % 9
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge	Wetland Hydrology Indicators: Primary Indicators: Inundated

axonomy	(Subgroup):	Typic haplorthods			eld Observations online Mapped Type? Yes
rofile Des epth nches)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist) S	Mottle Abundance/ ze/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 4/2	None	/ None	Silt Loam
4-16	A2	10YR 3/2	7.5YR 4/6	5% / Distinct	Silt Loam
					-
dric Soil	Indicators:				
	stosol		✓ Concretions		
St	stic Epipedon Ifidic Odor		High Organic Organic Stree	Content in Surface Li king in Sandy Soils	ayer in Sandy Soils
St Ad Re	Ifidic Odor uic Moisture ducing Cond	Regime litions	High Organic Organic Strea Listed on Loc Listed on Nat	king in Sandy Soils al Hydric Soils List onal Hydric Soils List	C-18 T 45 (1995), 1-72 (1995) (1995) (2000) (1995) (1995) (1995) (1995)
St. Ac. Re GI	Ifidic Odor uic Moisture educing Cond eyed or Low-	Regime litions Chroma Colors	High Organic Organic Strea Listed on Loc Listed on Nat Other (Explai	king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	Cold Print, 1996, Marshay, 1, 12 Cold (1970) 2000 Cold Cold Cold Cold Cold Cold Cold Cold
SI AA AR RI GI	Ifidic Odor juic Moisture will be ducing Concepted or Low-telatively low ampling poir DETER	Regime litions Chroma Colors chroma color and rest. MINATION Present?	High Organic Organic Strea Listed on Loc Listed on Nat Other (Explai	king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	
emarks: p	Ifidic Odor juic Moisture stucing Concepted or Low-telatively low ampling poir	Regime litions Chroma Colors chroma color and rest. MINATION Present?	High Organic Organic Streat Listed on Loc Listed on Nat Other (Explain edoxymorphic features in the	king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks)	cate that hydric soils are present in the
ETLANI Jydrophytic Vetland Hydric Soil	Ilfidic Odor juic Moisture siducing Concept or Low- telatively low ampling point of the Company of the Combination of the Combi	Regime litions Chroma Colors chroma color and rent. MINATION Present?	High Organic Organic Street Listed on Loc Listed on Nat Other (Explain edoxymorphic features in the Yes Yes Yes Yes Yes Yes Yes	king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks) upper 12 inches indi this Sampling Point	icate that hydric soils are present in the
emarks: pydrophytic fetland Hydric Soil: emarks:	Ilfidic Odor juic Moisture siducing Concept or Low- telatively low ampling point of the Company of the Combination of the Combi	Regime litions Chroma Colors chroma color and rent. MINATION Present? sent?	High Organic Organic Street Listed on Loc Listed on Nat Other (Explain edoxymorphic features in the Yes Yes Yes Yes Yes Yes Yes	king in Sandy Soils al Hydric Soils List onal Hydric Soils List in Remarks) upper 12 inches indi this Sampling Point	cate that hydric soils are present in the Within a Wetland?

roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: E. Hale, J. Roc	International Termin				Date: 01-Feb-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential P (If needed, explain on	sturbed (Atyproblem Area?	ical Situa	ation)	Yes No No	Community ID: PFO Transect ID: B-L11 Plot ID: B-PW-22
Dominant Plant Species 1. Phalaris arundinacea 2. Rubus spectabilis 3. Alnus rubra 4	Shrub Tree ed by delineator, not are OBL, FACW or pecies occurring in the	FAC+ FAC defined by F	40 75 90 	9	Stratum Indicator % ssigned by delineator, not defined by FWS. pris arundinacea is FACW. The other
Recorded Data (Describe in Stream, Lake, or Tide Gas Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Pepth to Saturated Soil: The sampling point is saturated:	No6	in.)	anth to 6	 Water-Stained Lear Local Soil Survey D FAC-Neutral Test Other (Explain in Remark)	12 Inches in Wetlands or more required): nnels in Upper 12 Inches ves Data emarks)

axonomy	(Subgroup):	Aquandic	endoaqual	lfs			Fiel Con	d Observations firm Mapped Type?	Yes	
rofile Des epth nches)	scription: Horizon	Matrix C		Mottle Co		Mottle Abun Size/Contrast		Texture, Concre Structure, etc.	etions,	
0-2	0	10YR	2/1		None	<i>I</i>	None			
2-8	Α	10YR	3/2		None	<i>i</i>	None	Loam	***************************************	
8-16	В	2.5Y	4/3	5YR	5/3	5% /		Clay Loam		
				-:						
				-)				- 		
ŢĞ	educing Cond leyed or Low-	itions Chroma Co	olors		_ Listed or	n Local Hydric Soi n National Hydric S xplain in Remarks	ls List Soils List			
V G	leyed or Low-	Chroma Co	present.	-	Listed or Listed or	n Local Hydric Soi n National Hydric S	ls List Soils List			
TLAN	leyed or Low-	MINATIO	present.	Yes Yes Yes	Listed or Listed or	n Local Hydric Soi n National Hydric S xplain in Remarks	Is List Soils List)	Vithin a Wetland?	Yes	
TLAN rdrophyti etland H rdric Soil	D DETER	MINATION Present?	present.	Yes Yes	Listed on Listed or Other (E	n Local Hydric Soi n National Hydric S xplain in Remarks	is List Soils List)	Vithin a Wetland?	· ·	olot is in a

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: J. Rock, E. Christensen		Date: 01-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PEM Transect ID: B-L18 Plot ID: B-PW23
EGETATION		
1. Glyceria elata Herb FACW+ 75 2. Lysichiton americanum Herb OBL 10 3. Boykinia elata Herb FAC 15 4	10. 11. 12. 13. 14. 15. 16. *Indicator prefix = a	ssigned by delineator, not defined by FWS.
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: Surface (in.)	Welland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2- Oxidized Root Chat Water-Stained Lea Local Soil Survey D	12 Inches in Wellands or more required): innels in Upper 12 Inches ves Data

	(Subgroup):					Confirm Mapped	Гуре?	Yes	
ofile Des pth ches)	cription: Horizon	Matrix C		Mottle Colors (Munsell Moist)	Mottle Abundance Size/Contrast	/ Texture, Structure,	Concret etc.	tions,	
0-12	Α.	10YR	3/1	None	/ None	Silt Lo			
12-16	В	10YR	4/1	None	/ None	Sand			
	5 1000 1000								
					- /				30 30 H H
					1				
Aq	stic Epipedon Ilfidic Odor Iuic Moisture Educina Conc	Regime		Organic St Listed on I	nic Content in Surface treaking in Sandy Soil Local Hydric Soils List) = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =	Soils		
— Aq Re ✓ Gl	alfidic Odor Juic Moisture Juducing Conc Judy Conceyed or Low-	Regime litions Chroma Co		High Orga Organic Si Listed on I Listed on I	nic Content in Surface treaking in Sandy Soil Local Hydric Soils List National Hydric Soils L blain in Remarks)) = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 =	Soils		
Aq Re	ulfidic Odor juic Moisture bducing Conceyed or Low-Low chroma DETER Vegetation I drology Present?	Regime ditions Chroma Co color indica MINATIO	ON	High Orga Organic Si Listed on I Listed on I Other (Exp	nic Content in Surface treaking in Sandy Soils Local Hydric Soils List National Hydric Soils L blain in Remarks) he sampling point. Is this Sampling Poi	st nt Within a Wetla	nd?	Yes at this data p	elot is in
Aq Re	DETER Vegetation I drology Present?	Regime ditions Chroma Co color indica MINATIO	ON	High Orga Organic Si Listed on I Listed on I Other (Exp dric soils are present in the	nic Content in Surface treaking in Sandy Soils Local Hydric Soils List National Hydric Soils L blain in Remarks) he sampling point. Is this Sampling Poi	nt Within a Wetla	nd? ined th	at this data p	
TLANE Irophytic tland Hylric Soils	DETER Vegetation I drology Present?	Regime ditions Chroma Co color indica color	ON of hydroph	High Orga Organic Si Listed on I Listed on I Other (Exp dric soils are present in the	nic Content in Surface treaking in Sandy Soils Local Hydric Soils List National Hydric Soils Lolain in Remarks) the sampling point. Is this Sampling Point hydrology and hydric	nt Within a Wetla	nd? ined th	,	

r roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Hale, J. Rock		Date: 30-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PEM Transect ID: B-L05 Plot ID: PW-18
/EGETATION		
Dominant Plant Species 1. Phalaris arundinacea 2. Carex obnupta 3. Herb 5. OBL 2 *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 100% of dominant vegetation is FACW and an obligate species in the species i	9	Stratum Indicator % ssigned by delineator, not defined by FWS.
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soif: The sampling point inundated. Wetland hydrology is present.	Wetland Hydrology Indicators Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Cha Water-Stained Lea Local Soil Survey D	12 Inches in Wetlands or more required): annels in Upper 12 Inches eves Data

axonomy	(Subgroup):	Typic hap	olorthods				Dra Fiel Con	d Observations firm Mapped Type? Yes
rofile Description: epth Matrix Color nches) Horizon (Munsell Moist)		Mottle Colors (Munsell Moist)		Mottle Abundance/		Texture, Concretions, Structure, etc.		
0-6	Α	10YR 4/2		None		/ None		
6-16	В	10YR		7.5YR		5% /		Organincs with Silt Silt
							 !	7.
							 	
						/		= =,

	stic Epipedon			I	Concretion High Orga	nic Content in S	Surface Lay	er in Sandy Soils
— Aq — Re ✓ Gle	Ilfidic Odor Juic Moisture F Educing Condi Byed or Low-C	tions Chroma Co		nic features i	High Orga Organic Si Listed on I Listed on I Other (Exp	nic Content in s reaking in San .ocal Hydric So lational Hydric lain in Remark	dy Soils ils List Soils List s)	er in Sandy Soils dric soils are present in the sampling
Aq Re V Gle	Ilfidic Odor Juic Moisture F Educing Condi Byed or Low-C	tions Chroma Col Dior and re	odoxymorph DN Y	es es	High Orga Organic Si Listed on I Listed on I Other (Exp	nic Content in s reaking in San .ocal Hydric So lational Hydric lain in Remark	dy Soils ils List Soils List s) cate that hy	
Aq Re Re V Gle Marks: Lu	Under the second of the second	INATIO	ON Y	es es es	High Orga Organic Si Listed on I Listed on I Other (Exp	nic Content in s reaking in San .ocal Hydric So lational Hydric lain in Remark 12 inches indic	dy Soils ils List Soils List s) cate that hy	dric soils are present in the sampling
Aq Re V Gle marks: Lu	DETERM Vegetation Present?	INATIO	ON Y	es es es	High Orga Organic Si Listed on I Listed on I Other (Exp	nic Content in s reaking in San .ocal Hydric So lational Hydric lain in Remark 12 inches indic	dy Soils ils List Soils List s) cate that hy	dric soils are present in the sampling thin a Wetland?
Aq Re V Gle marks: Lu	DETERM Vegetation Present?	INATIO	ON Y	es es es	High Orga Organic Si Listed on I Listed on I Other (Exp	nic Content in s reaking in San .ocal Hydric So lational Hydric lain in Remark 12 inches indic	dy Soils ils List Soils List s) cate that hy	dric soils are present in the sampling thin a Wetland? Yes
Aq Re V Gle marks: Lu marks: Lu marks: Lu marks: Lu marks: T w	DETERM Vegetation Present?	IINATIC resent? nt?	ON YA YA Ophytic veg	es es getation, inur	High Orga Organic Si Listed on I Listed on I Other (Exp	nic Content in s reaking in San .ocal Hydric So lational Hydric lain in Remark 12 inches indic	dy Soils ils List Soils List s) cate that hy	dric soils are present in the sampling thin a Wetland?
Aq Re V Gte	DETERN DETERN Vegetation Predrology Present? The combination of the	IINATIC resent? nt?	ON YA YA Ophytic veg	es es getation, inur	High Orga Organic Si Listed on I Listed on I Other (Exp	nic Content in s reaking in San .ocal Hydric So lational Hydric lain in Remark 12 inches indic	dy Soils ils List Soils List s) cate that hy	dric soils are present in the sampling thin a Wetland? Yes

r roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: E. Hale, J. Roc				
Do Normal Circumstance Is the site significantly d Is the area a potential P (If needed, explain or	isturbed (Atypical Situation) roblem Area?	? Yes No No No		
EGETATION				
*Indicator prefix = assign Percent of Dominant Species that (excluding FAC-).	Herb FACU 1 Shrub FAC+ 1 Herb OBL 90 Herb FACU 2 ded by delineator, not defined by FWS.	10	assigned by delineator, not defined by FWS.	
Recorded Data (Describe in Stream, Lake, or Tide G Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:		Welland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wellands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)		

ap Unit Name eries and Phase): .	Whitehorn silt loam			Drainage Class:	poorly drained
Secretary source and the second secretary section in the second s):_Aquandic endoaqua	lfs		Field Observations Confirm Mapped T	
				12 W 6	700
ofile Description: pth ches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance Size/Contrast	e/ Texture, C Structure, e	concretions,
			7		
		AD TERESONALISMOSTOPHIANIS			
Sulfidic Odor Aquic Moistu Reducing Co	re Regime	Listed on Listed on	Streaking in Sandy Soi Local Hydric Soils List National Hydric Soils I plain in Remarks)		
narks: The soil pr	ofile could not be compl	leted due to complete inu	undation of the sampli	ng point.	
		leted due to complete inu	undation of the sampli	ng point.	
LAND DETE	RMINATION	leted due to complete inc	undation of the sampli	ng point.	
TLAND DETE drophytic Vegetaticetiand Hydrology Professories Soils Present?	RMINATION on Present?		undation of the sampli		nd?
LAND DETE frophytic Vegetatic tland Hydrology P	RMINATION on Present?	Yes			nd?
TLAND DETE Trophytic Vegetation Itland Hydrology P Tric Soils Present?	RMINATION on Present?	Yes			nd?
LAND DETE frophytic Vegetatio tland Hydrology P fric Soils Present?	RMINATION on Present?	Yes			nd?
LAND DETE Trophytic Vegetation tland Hydrology P Tric Soils Present?	RMINATION on Present?	Yes			nd?
LAND DETE frophytic Vegetatio tland Hydrology P fric Soils Present?	RMINATION on Present?	Yes			nd?
LAND DETE frophytic Vegetatio tland Hydrology P fric Soils Present?	RMINATION on Present?	Yes			nd?
rophytic Vegetatic tland Hydrology P ric Soils Present?	ERMINATION on Present? resent?	Yes		int Within a Wetla	nd? pproved by HQUSACE 3/
rephytic Vegetatic tland Hydrology Plric Soils Present?	RMINATION on Present?	Yes		int Within a Wetla	•
TLAND DETE Irrophytic Vegetatic Itland Hydrology P Irric Soils Present? marks:	ERMINATION on Present? resent?	Yes		int Within a Wetla	•
TLAND DETE drophytic Vegetatic tland Hydrology P dric Soils Present?	ERMINATION on Present? resent?	Yes		int Within a Wetla	•

roject/Site: ,Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Gray, J. Leach		Date: 16-Jul-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PEM Transect ID: PEM Plot ID: WP-AD-01
/EGETATION		
Dominant Plant Species 1. Phalaris arundinacea 2	9	Stratum Indicator %
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: No indicators of wetland hydrology Remarks:	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Cha Water-Stained Lea Local Soil Survey D FAC-Neutral Test Other (Explain in R	12 Inches in Wetlands or more required): unnels in Upper 12 Inches ves Data

axonomy	(Subgroup):	Aquandic	endoaqua	lfs		114		Observations rm Mapped Ty		No	
ofile Des opth oches)	cription: Horizon	Matrix C	olor II Moist)	Mottle Co		Mottle Abundar Size/Contrast	ice/	Texture, Co	oncretion tc.	ns,	- 9
0-16	Α	10YR	3/1			/		Silt Loar	n		7.77
13-16	Α	10YR	3/1	10YR	8/3	- 		Silt Loar			
						/		*******	SV-200-1		
	i anovenana			- 3,500,51-41	***********				******		
						1		-			
Ac Re	ulfidic Odor quic Moisture educing Con- eyed or Low	ditions -Chroma Co			Organic S Listed on _ Listed on	anic Content in Surfa Streaking in Sandy S Local Hydric Soils L National Hydric Soils plain in Remarks)	oils st	540			
	oresent.			soil taken fro	m the samp	le pit. Additionally,	there w	ere a few are	as wher	e depletions	were
ETLANI ydrophytio /etland Hy ydric Soil:	DETER Vegetation vdrology Pres Present?	MINATION Present?	ON	soil taken fro	m the samp	le pit. Additionally,				e depletions	were
ETLANI lydrophytic Vetland Hy lydric Soil:	D DETER	MINATION Present?	ON	Yes	m the samp					e depletions	were
ETLANI lydrophytic Vetland Hy	D DETER	MINATION Present?	ON	Yes	m the samp			ithin a Wetlar	id?	e depletions	

r roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Gray, J. Leach		Date: 16-Jul-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No No No No No No N	Community ID: PFO Transect ID: N/A Plot ID: WP-AD-02
/EGETATION		
Dominant Plant Species 1. Equisetum arvense 1. Equisetum arvense 2. Phalaris arundinacea 3. Rubus procerus 4. Alnus rubra 5. Agrostis - bent grass 6.	9	Stratum Indicator %
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Oepth to Saturated Soil: The data was taken in July when no hydrology was present three Remarks:	☐ Water-Stained Lea ☐ Local Soil Survey D ☐ FAC-Neutral Test ☐ Other (Explain in R	12 Inches in Wetlands or more required): nnels in Upper 12 Inches wes

axonomy	(Subgroup):	Aquandic	endoaquali	fs			Field	nage Class: Poorly drained d Observations irm Mapped Type?
rofile Des epth nches)	scription: Horizon	Matrix C (Munsel		Mottle Co		Mottle Abund Size/Contrast	ance/	Texture, Concretions, Structure, etc.
0-11	Α	10YR	3/2	None			Vone	Silt Loam
11-18	В	10YR	3/2	10YR	4/3	10% /		Silt Loam
				7.5YR	4/4	15% /		Silt Loam
				7.5YR	3/4	15% /		Silt Loam
C American	. 1510/7/83 -1810/18							
Hi Hi So Ac Re	Indicators: stosol stic Epipedon ulfidic Odor quic Moisture educing Cond eyed or Low-	Regime	lors		_ Listed or _ Listed or	ons Janic Content in Sur Streaking in Sandy In Local Hydric Soils In National Hydric So In Remarks)	List	er in Sandy Soils
FLANI drophytic	DETERI	MINATIO	DN	profile, but n	not saturate	ed.		
TLANI drophytic etland Hy) DETER	MINATIO	ON Y		not saturate) Point W	ithin a Wetland?
FLANE drophytic tland Hy dric Soils	DETER	MINATIO	ON Y	/es	not saturate) Point W	ithin a Wetland? Yes Approved by HQUSACE 3/8
TLANE drophytic etland Hy dric Soils	DETER	MINATIO	ON Y	/es	not saturate) Point W	

ı

r roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Chambers, M. Villarreal		Date: 09-Jun-06 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: Upland Forest Transect ID: L-01 Plot ID: z-L01-P-03
EGETATION		•
Dominant Plant Species 1. Alnus rubra 2. Symphoricarpos albus 3. Rubus spectabilis 4. Pteridium aquilinum 4. Pteridium aquilinum 5. Dicentra formosa 6. Herb 7. *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: Sword fern (Polystichum munitum) is also present close to samp vegetation is not dominant in the sampling point.	9	ssigned by delineator, not defined by FWS.
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: None (in.) Depth to Saturated Soil: Wetland hydrology indicators are not present.	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 of Oxidized Root Chate Water-Stained Lear Local Soil Survey Description	12 Inches in Wellands or more required): nnels in Upper 12 Inches ves

otion: lorizon O A	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/	Transcript Automobilities
	5: 		Size/Contrast	Texture, Concretions, Structure, etc.
Α		None	/ None	
	7.5YR 3/4	None	/ None	
			·/	का ह
icators:				
sol Epipedor	n			ver in Sandy Soils
lic Odor Moisture	Regime	Organic St Listed on L	reaking in Sandy Soils Local Hydric Soils List	• = 0.000 = = 0.000
icing Cone ed or Low	ditions -Chroma Colors	_ Listed on I	Vational Hydric Soils List	
fric soil in	dicators are not pres	ent.		_
fric soil in	dicators are not pres	ent.		
Iric soil in	dicators are not pres	ent.		
iric soil in	dicators are not pres	ent.		
	dicators are not pres	ent.		
DETER	RMINATION			
DETER	RMINATION Present?	No No	ls this Sampling Point \	Within a Wetland?
DETER egetation ology Pre	RMINATION Present?	No	ls this Sampling Point \	Within a Wetland?
DETER egetation ology Pre resent?	RMINATION Present? sent?	No No No	5/ (2	Within a Wetland? No
DETER egetation ology Pre resent?	RMINATION Present? sent?	No No No	5/ (2	No.
DETER egetation ology Pre resent?	RMINATION Present? sent?	No No No	5/ (2	No.
DETER egetation ology Pre resent?	RMINATION Present? sent?	No No No	5/ (2	No.
DETER egetation ology Pre resent?	RMINATION Present? sent?	No No No	5/ (2	No.
DETER egetation ology Pre resent?	RMINATION Present? sent?	No No No	5/ (2	No.
3	sol Epipedor ic Odor Moisture cing Con	sol Epipedon	col Concretion Epipedon High Orga ic Odor Organic Si Moisture Regime Listed on to cing Conditions Listed on to conditions	Concretions Epipedon ic Odor Moisture Regime cing Conditions Concretions High Organic Content in Surface La ic Odor Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List

r roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Chambers, M. Villarreal		Date: 09-Jun-06 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: Upland Forest Transect ID: Z-L01 Plot ID: Z-L01-PU-01
EGETATION		
Dominant Plant Species 1. Alnus rubra Tree FAC 75 2. Sambucus racemosa 3. Oemleria cerasiformis 4. Rubus spectabilis 5. Polystichum munitum Herb FACU 25 6. Dryopteris expansa Herb VPL 25 7. Maianthemum dilatatum Herb FACU 25 *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 38% of dominant species are FAC. All other dominant species a	10	ssigned by delineator, not defined by FWS.
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.)	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 of Chate) Water-Stained Lear Local Soil Survey Deposits FAC-Neutral Test	12 Inches in Wetlands or more required); nnels in Upper 12 Inches ves

	(Subgroup):	- Inquariore	criadaquan	5	Confirm Mapped Type? No					
ofile Des opth ches)	scription; Horizon	Matrix C		Mottle Colors (Munsell Moist)	Mottle Abundan		exture, C		ions,	
0-15	A	7.5YR		None	/ Nor			 		
				None	/ NOI		Sandy L	.oam		
		5 100000			<i>i</i>					
WIRT - 123 -		-		***************************************	·/					
				***************************************	·		=			
ARAD - COLO	* *************************************	T			- (
R	educing Cond	Regime ditions		Listed on I	Local Hydric Soils Li National Hydric Soils	oils st List				
G	educing Cond leyed or Low Hydric soil in	ditions -Chroma Co		Listed on I Other (Exp	Local Hydric Soils Li National Hydric Soils Islain in Remarks)	st				
TLANI	educing Cond leyed or Low	MINATIONS Chroma Co	ont preser	Listed on I Other (Exp	National Hydric Soils	st List	a Wetlar	nd?	No	
TLANI drophytic etland Hydric Soil	D DETER C Vegetation ydrology Present?	ditions Chroma Co	ON	Listed on I Other (Exp	National Hydric Soils lain in Remarks)	st List Point Within				ı plot is no
TLANI drophytic etland Hydric Soil	D DETER C Vegetation ydrology Present? Based on the	ditions Chroma Co	ON	No No No	National Hydric Soils lain in Remarks)	st List Point Within	determin	ned tha	t this data	plot is no
TLANI drophytic etland Hydric Soil	D DETER C Vegetation ydrology Present? Based on the a wetland.	dicators are dicat	ON	No No No	National Hydric Soils lain in Remarks) Is this Sampling F	oint Within	determin	ned tha	t this data	SACE 3/9

Applicant/Owner: Pacific Applicant/Owner: Pacific Investigator: M. Chambers,	International Terminals		Date: 13-Jun-06 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly d Is the area a potential P (If needed, explain or	isturbed (Atypical Situ roblem Area?	Yes No No	Community ID: PFO Transect ID: Z-L02 Plot ID: Z-L01-PW01
EGETATION			
Percent of Dominant Species that (excluding FAC-).	Shrub FAC+ Shrub FACW- Shrub FAC- ed by delineator, not defined by Face OBL, FACW or FAC	20 9. Alnus rubra 10 10. Cornus stolonifera 40 11. Populus balsamifera 40 12. Betula papyrifera 20 13	
PROLOGY Recorded Data (Describe in I Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:		Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposi Drainage Patterns Secondary Indicators (2 Oxidized Root Ch Water-Stained Le Local Soil Survey FAC-Neutral Test Other (Explain in	er 12 Inches its s in Wetlands 2 or more required): nannels in Upper 12 Inches eaves Data

axonomy	(Subgroup):	Aquandic	endoaqual	fs				d Observations irm Mapped T		No	
rofile De epth nches)	scription; Horizon	Matrix C		Mottle Co		Mottle Abundar Size/Contrast	nce/	Texture, C	oncretio tc.	ns,	
0-8	Α	7.5YR	3/1	+:	None	/ No	ne	anoversin			
8-12	В	10YR	5/2	10YR	6/6	10% /		Silt		~~~~	
		. 				/					-
S A R	istic Epipedon ulfidic Odor quic Moisture educing Cond leyed or Low-	Regime itions Chroma Co	olors		Organic S Listed on _ Listed on	inic Content in Surfa streaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks)	ioils ist	er in Sandy S	oils		
				hic features	in the upper	12 inches indicate	that hy	dric soils are	present	in the san	npling poir
ETLAN ydrophyti /etland H	D DETER c Vegetation F ydrology Pres s Present?	MINATIO	ON	Yes No Yes	in the upper	12 inches indicate				in the san	npling poir
ETLAN ydrophyti /etland H ydric Soi	D DETER c Vegetation F ydrology Pres s Present?	MINATION Present? ent?	ON of hydroph	Yes No Yes			Point W	Vithin a Wetla	nd?	Yes	
ETLAN lydrophyti Vetland H	D DETER c Vegetation F ydrology Pres is Present? Based on the hydrology wa	MINATION Present? presence is not presence in the presence is not presence is not presence is not presence in the presence in the presence is not presence in the presence in the presence is not presence in the presence in	ON of hydroph ent due to	Yes No Yes	on,and hydr	Is this Sampling	Point W	Vithin a Wetlar at this data p	nd?	Yes	Wetland

roject/Site: Gateway Pacific Applicant/Owner: Pacific Pacific Investigator: M. Chambers, V	International Terminals			Date: 13-Jun-06 County: Whatcon State: Washingt	n
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atypica roblem Area?	1177	Yes No No	Community ID Transect ID: [Plot ID: 2); PFO 2-L02-PW-01
Dominant Plant Species		ndicator 9		Stratum	
2 Poa annua		********	Corpus stolonifora	Tree	02
•				Shrub	FACW 20
3. Spiraea douglasii Lonicera involucrata	Shrub I		Betula papyrifora	Tree	
Dibac lacuetra					10
Pubus spectabilis		FAC+			
	2200070		0 14		
Physocarous capitatus Rhamnus purshiana		FACW-			
*Indicator prefix = assigne		FAC-	0 16		
vegetation is dominant.	munitum) is present o	utside of the	ampling point. 90% of dominant	species are FAC, FACW,	or OBL. Hydrophytic
DROLOGY					
Recorded Data (Describe in I Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available			Wetland Hydrology Indica Primary Indicators: Inundated Saturated in Upp Water Marks Drift Lines	per 12 Inches	
			Sediment Depos Drainage Pattern Secondary Indicators	ns in Wetlands (2 or more required):	20 1000
A CONTRACTOR OF	Name		 Oxidized Root C 	hannels in Upper 12 In	ches
Field Observations: Depth of Surface Water:	None	(in.)		eaves	
a construction with the same and a second service in the second se	None None	(in.) (in.)	Water-Stained L Local Soil Surve	y Data	
	,		Water-Stained L	y Data st	

axonomy	(Subgroup):	Aquandic	endoaqua	lfs			Field Confi	rm Mapped T	ype? No	
rofile Des epth nches)	cription; Horizon	Matrix C		Mottle C		Mottle Abunda Size/Contrast	ince/	Texture, C		=2
0-8	Α	7.5YR	3/1		None		one	* ***		
8-12	В	10YR	5/2	10YR	6/6	10% /		Silt		
	3 <u>1879398888</u>		2001-200-1-D			/				
		* ********				<i>I</i>		*********	**************************************	
		T GAUGUETA				/		_		
St	stosol stic Epipedon Iffidic Odor luic Moisture ducing Cond eyed or Low-	Regime litions	lors		Organic : Listed on _ Listed on	ons anic Content in Surf Streaking in Sandy (Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils ist	er in Sandy Sc	iils	
St	stic Epipedon Iffidic Odor Juic Moisture Educing Cond eyed or Low-	Regime litions Chroma Co		hic features	High Org Organic S Listed on Listed on Other (Ex	anic Content in Surf Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils List Is List		oils present in the samplin	ng po
St. Ac. Ac. Rr. Gl	stic Epipedon Iffidic Odor Juic Moisture Educing Cond eyed or Low-	Regime litions Chroma Co color and re	edoxymorp ON	hic features Yes No Yes	High Org Organic S Listed on Listed on Other (Ex	anic Content in Surf Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils List Is List that hyd	dric soils are p	present in the samplin	ng po
TLANI drophytic dric Soits	DETER Vegetation F drology Pressent?	Regime litions Chroma Co color and resolution and r	ON	Yes No Yes	High Org Organic S Listed on Listed on Other (Ex	anic Content in Surf Streaking in Sandy S Local Hydric Soils I National Hydric Soi φlain in Remarks)	Soils List Is List that hyde	dric soils are p	oresent in the sampling the sampling of the sa	ng po
FLANI drophytic btland Hydric Soits	DETERI Vegetation F drology Press Present?	Regime litions Chroma Co color and re color and re Present? ent? presence of	ON Francisco	Yes No Yes ytic vegetation	High Org Organic s Listed on Listed on Other (Ex	anic Content in Surf Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks) r 12 inches indicate Is this Sampling ic soils, it is determ	Point Wi	thin a Wetlan	oresent in the sampling the sampling of the sa	

noject/Site: Gateway Pacific T Applicant/Owner: Pacific Investigator: M. Chambers, V	nternational Terminals		Date: 13-Jun-06 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pro (If needed, explain on	Yes No No	Community ID: PSS Transect ID: Z-L02 Plot ID: Z-L02-PW-02	
EGETATION			
Percent of Dominant Species that a (excluding FAC-). Remarks: The unidentified species of FAC, FACW, or OBL. Hyd	Shrub FAC+ 70 Shrub FACW 40 Herb FAC 20 Shrub FACU 20 I by delineator, not defined by FWS. Tee OBL, FACW or FAC	14 15 16*Indicator prefix = as 82%	
Recorded Data (Describe in R Stream, Lake, or Tide Gat Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Primary and secondary incomes		✓ Water-Stained Leav ☐ Local Soil Survey Da ☐ FAC-Neutral Test ☐ Other (Explain in Re	n Wetlands or more required): nnels in Upper 12 Inches res ata

xonomy	(Subgroup):	Aquandic	endoaqua	lfs			Fiel	nage Class: _ d Observations firm Mapped Ty	pe? No
	(*************************************	7					Con	штимаррец ту	pe? Ito
ofile Des ofth ches)	cription: Horizon	Matrix C		Mottle Co		Mottle Abur Size/Contrast		Texture, Co Structure, et	
0-6	Α	A 10YR 3/3			None	/	None	Silty San	d
6-12	В	10YR	4/4	7.5YR	4/4	50% /	VERT-DEN	Silty San	
						1			
						/		- (************************************	
								W	8800 VSC = 420000 (1990 VSC) - 1900 VSC = 420000 (1990 VSC)
Re Gl	Ilfidic Odor Juic Moisture Educing Conc eyed or Low	ditions Chroma Co			_ Organic s _ Listed on _ Listed on _ Other (Ex	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S φlain in Remarks	y Soils Is List Soils List)	152	
Re Gl marks: R	uic Moisture educing Cond eyed or Low Redoxymorph	Regime ditions Chroma Co	in the upp	per 12 inches e study area.	High Org Organic S Listed on Listed on Other (E)	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S φlain in Remarks	y Soils Is List Soils List)	152	point, but the soil matr
Regiler Gl	uic Moisture educing Cond eyed or Low Redoxymorph	Regime ditions	in the upp soils in the	per 12 inches e study area. Yes No Yes	High Org Organic S Listed on Listed on Other (E)	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S plain in Remarks at hydric soils an	y Soils is List Soils List)	152	point, but the soil matr
Regiler Gl	DETER Vegetation drology Present?	Regime ditions -Chroma Conic features nost hydric MINATIO Present?	in the upp soils in the	Yes No Yes	High Org Organic S Listed on Listed on Other (E)	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S plain in Remarks at hydric soils an	y Soils s List Soils List) e present	n the sampling	point, but the soil matr

roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: M. Chambers,	International Terminals		Date: 15-Jun-06 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly d Is the area a potential P (If needed, explain or	Community ID: PFO Transect ID: Z-L04 Plot ID: Z-L04-WP-01		
Percent of Dominant Species that (excluding FAC-). Remarks: Indian plum (Oemleria of	Shrub FAC+ Herb FACW Herb OBL Herb OBL Herb FAC Herb FAC Herb FAC Herb FACW ed by delineator, not defined by Face OBL, FACW or FAC terasiformis) and tufts of moss are	9. Rubus armeniacus 15 10. Juncus sp. 25 11. Dactylis glomerata 25 12. Festuca arundinacea 15 13. Spiraea douglasii 25 14. 10 15. 10 16. WS. *Indicator prefi	Shrub FACU 5 Herb NI 5 Herb FACU 5 Herb FAC- 5 Shrub FACW 15
Recorded Data (Describe in Stream, Lake, or Tide G. Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Wetland hydrology indic		Water Marks Drift Lines Sediment De Drainage Pat Secondary Indicato Oxidized Roo Water-Staine Local Soil Su FAC-Neutral	Upper 12 Inches posits Iterns in Wetlands ors (2 or more required): ot Channels in Upper 12 Inches ed Leaves urvey Data

xonomy	(Subgroup):	Aqualpic I	haplorthod	Ís				Observations m Mapped T		No	
ofile Des pth ches)	cription: Horizon	Matrix C		Mottle Co		Mottle Abunda Size/Contrast	ance/	Texture, C		ions,	
0-5	Α	7.5YR	3/2					Silt Loa	m		
5-13	В	7.5YR	3/2	10YR	5/2	50% /		Silt Loa	m		V1520-V15
				10YR	5/6						
						1					
		* ======		-				-			
Hi Su Ad	stosol stic Epipedon Ilfidic Odor uic Moisture	Regime			Organic S	ons anic Content in Sur Streaking in Sandy Local Hydric Soils	Soils	r in Sandy S	oils		
_ v _ Gl marks: _p	educing Concepted or Low-	chroma Co	olor and re	doxymorphic	Listed on Other (Ex	National Hydric So plain in Remarks) the upper 5 inches	ils List	that hydric s	soils ar	e present in	the
Marks: ps	eyed or Low-	Chroma Control Chroma Control	olor and re	edoxymorphic Yes No Yes	Listed on Other (Ex	National Hydric So plain in Remarks)	ils List			e present in	the
LANE Irophytic tland Hylric Soils	DETER Vegetation I drology Pres	Chroma Control Chroma Con	ON	Yes No Yes	Listed on Other (Ex	National Hydric So plain in Remarks) the upper 5 inches	ils List s indicate Point Wil	hin a Wetlar	nd?	Yes	
LANE rophytic tland Hy ric Soils	DETER Vegetation I drology Present? The vegetation drology du	Chroma Control of the	ON s in the samp	Yes No Yes mpling point oling.	Listed on Other (Ex	National Hydric So plain in Remarks) the upper 5 inches	Point Wil	hin a Wetlar n a wetland. A	nd? No inc	Yes	etland

r roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: M. Chambers,	International Termin				Date: 15-Jun-06 County: Whatcom State: Washington	
Do Normal Circumstance Is the site significantly di Is the area a potential P (If needed, explain on	sturbed (Atyproblem Area?	ical Situa	ation)	Yes No No	Community ID: Transect ID: [z-L Plot ID: [z-L	
Dominant Plant Species 1. Lysichiton americanum 2. Equisetum arvense 3. Tellima grandiflora 4. Tolmiea menziesii 5. Rubus spectabilis 6. Athyrium filix-femina 7. Glyceria elata Alnus rubra *Indicator prefix = assigne Percent of Dominant Species that (excluding FAC-). Remarks: The unidentified species FAC, FACW, or OBL. Hy	Herb Shrub Herb Herb Tree ed by delineator, not are OBL, FACW or	OBL FAC UPL FAC FAC+ FAC FACW+ FAC t defined by F	20 40 20 60 50 50 40 40 WS.	10. Lonicera involucrata 11	assigned by delineator, nol	FAC 20 FAC+ 20 defined by FWS.
PROLOGY Recorded Data (Describe in Stream, Lake, or Tide Garaial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Sampling point is near a marks and water-staine	No N	nd standing v	water e:	✓ Water-Stained Lea ☐ Local Soil Survey I ☐ FAC-Neutral Test ☐ Other (Explain in F	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inche aves Data Remarks)	

		Amustais b	الديد والمديد المديد						Observations			
ixonomy	(Subgroup):	Aquaipic	арюттоо	S				Confir	rm Mapped Type? No			
ofile Des opth ches)	cription; Horizon	Matrix C (Munsel		Mottle Col		Mottle A Size/Contr	bundanc ast	e/ 	Texture, C		ions,	
0-6	Α	10YR	3/2		None		/ None		Sand			
6-12	В	10YR	2/2	7.5YR	5/6	5%	6 /		ALC: 100 100 100 100 100 100 100 100 100 10			
				<u> </u>			1		242000000000000000000000000000000000000			
				± ====================================			1		-			
												-1-48-
Si	stic Epipedor ulfidic Odor				Organic S	anic Content Streaking in S	Sandy Soi	ls	in Sandy S	oils		
Si Ad Ri V G	ulfidic Odor quic Moisture educing Con leyed or Low	Regime ditions -Chroma Co			High Orga Organic S Listed on Listed on Other (Ex	anic Content Streaking in S Local Hydric National Hyd plain in Rem	Sandy Soi Soils Lis Iric Soils I arks)	ls t ₋ist			nt in the sa	impling poi
Si Ak	ulfidic Odor quic Moisture educing Con leyed or Low	Regime ditions -Chroma Co color and re	edoxymorp ON		High Orga Organic S Listed on Listed on Other (Ex	anic Content Streaking in S Local Hydric National Hyd plain in Rem	Sandy Soi Soils Lis iric Soils I arks)	Is List		preser	nt in the sa	mpling poi
FLANI drophytietland H dric Soil	ulfidic Odor quic Moisture educing Con- leyed or Low Low chroma D DETER c Vegetation ydrology Present?	Regime ditions	on	ohic features in Yes	High Orga Organic S Listed on Listed on Other (Ex	anic Content Streaking in S Local Hydric National Hyd plain in Rem r 12 inches in	Sandy Soils Listinic Soils Listinic Soils I arks) Indicate the solution of th	ls List mat hyd	ric soils are	preser	Yes	

roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: M. Chambers,	International Termin				Date: 16-Jun-06 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential P (If needed, explain on	sturbed (Atyproblem Area?	ical Situa	ation)	Yes	Community ID: Upland Shrub Transect ID: Z-L08 Plot ID: Z-L08-UP-01
3. Polystichum munitum 4. Symphoricarpos albus 5. Dicentra formosa 6. Montia sp. 7. Alnus rubra	Herb Herb Shrub Herb Tree Herb ed by delineator, not are OBL, FACW of the second included it is not included it included it is not included it is	FACU FACU FACU NI FAC UPL t defined by F	60 25 40 20 20 40 75 60 WS.	10	Stratum Indicator % Herb FACU 25
PROLOGY Recorded Data (Describe in Stream, Lake, or Tide Gas Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Wetland hydrology indice	NoNo	ne(in.)		Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Oxidized Root Chate Water-Stained Lea	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

axonomy	(Subgroup).	- Adampie i	naplorthod	5			Conf	rm Mapped Ty	pe? Yes
ofile Des	cription; Horizon	Matrix C		Mottle Co		Mottle Abur Size/Contrast		Texture, Co	
0-3	Α	10YR	3/3		None	··· ·······	None	Silty/San	dy Loam
3-9	В	7.5YR	3/3	10YR	4/6	/ 5% /		Silty/San	
9-14	C	10YR	3/4	10YR		5% /		Silty/San	
14-18	· 	10YR	6/2	10YR	3/3	40% /	Distinct		
		-				-			
		V. Demoni	E-12-11-11-11-11-11-11-11-11-11-11-11-11-						
	Indicators:			JĪ.	Concretic	one			
H	stosol stic Epipedon	i		Ţ	_ Concretic _ High Orga	anic Content in S	Surface Lay	er in Sandy So	ils
	ulfidic Odor				Occapio	Stronking in Cana	he Soile		
A	quic Moisture	Regime		-17		Streaking in Sand Local Hydric Soi			
Re	educing Cond eyed or Low-	litions	lors	Ī	Listed on Listed on		ls List Soils List		
Re GI	educing Cond leyed or Low-	litions Chroma Co		ng at 3 inches	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric	ls List Soils List s)	r less.	
Regional Regions	educing Cond leyed or Low-	litions Chroma Co olors is pres	ent startin	ng at 3 inches	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric oplain in Remarks	ls List Soils List s)	r less.	
FLANI drophytic etland Hy	educing Cond eyed or Low- Mottling of co	MINATIONS MINATION Present?	ent startin	No No No	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric s plain in Remarks atrix is not a chr	Is List Soils List s)	r less. 'ithin a Wetlan	d? No
FLANI drophytic etland Hy dric Soils marks:	DETER Vegetation I	MINATIONS Chroma Co	ON	No No No	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric s plain in Remarks atrix is not a chr	is List Soils List s) oma of 2 o	ithin a Wetlan	d? No ed that this data plot is r
FLANI drophytic etland Hy dric Soils marks:	DETER Vegetation I various Present? Based on the	MINATIONS Chroma Co	ON	No No No	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric s plain in Remarks atrix is not a chr	is List Soils List s) oma of 2 o	ithin a Wetlan	J. Lat.
TLANI drophytic stland Hy dric Soils marks:	DETER Vegetation I various Present? Based on the	MINATIONS Chroma Co	ON	No No No	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric s plain in Remarks atrix is not a chr	is List Soils List s) oma of 2 o	ithin a Wetlan	ed that this data plot is r
FLANI drophytic stland Hy dric Soils marks:	DETER Vegetation I vdrology Present? Based on the a wetland.	MINATIONS Chroma Co clors is pres MINATION Present? ent?	ON f hydroph	No No No ytic vegetatio	Listed on Listed on Other (Ex	Local Hydric Soi National Hydric s plain in Remarks atrix is not a chr	ng Point W	ithin a Wetlanditis is determined	ed that this data plot is r
TLANI drophytic bland Hy dric Soils marks:	DETER Vegetation I vdrology Present? Based on the a wetland.	MINATIONS Chroma Co clors is pres MINATION Present? ent?	ON f hydroph	No No No ytic vegetatio	Listed on Listed on Other (Ex	Is this Sampli	ng Point W	ithin a Wetlanditis is determined	ed that this data plot is r

roject/Site: Gateway Pacific Te Applicant/Owner: Pacific In Investigator: M. Gray, E. Chris	ternational Terminals			Date: 03-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dist Is the area a potential Pro (If needed, explain on r	turbed (Atypical Situa blem Area?	ation)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L13 Plot ID: Z-L13-UP-01
EGETATION				
Percent of Dominant Species that ar (excluding FAC-).	by delineator, not defined by fee OBL, FACW or FAC was recently mowed, so it was	90 25 25 25 	*Indicator prefix = a	
PROLOGY Recorded Data (Describe in Recorded Data (Describe in Recorded Data, or Tide Gauge Available Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: No indicators of wetland in Remarks:		li Li	☐ Water-Stained Lea ☐ Local Soil Survey [☐ FAC-Neutral Test ☐ Other (Explain in R	12 Inches in Wetlands or more required): annels in Upper 12 Inches aves Data

	(Subgroup):			Con	firm Mapped Type? No
rofile Des epth nches)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16	Α	10YR 3/2	None	/ None	Loam
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
				/	- -
				/	
vdric Soil	Indicators:				
	stosol		Concretions	s.	
L6					
	stic Epipedon ulfidic Odor	1	High Organ Organic Str	nic Content in Surface Lay reaking in Sandy Soils	yer in Sandy Soils
Su Ad Re	ulfidic Odor quic Moisture educing Cond	Regime fitions	High Organ Organic Str Listed on L Listed on N	nic Content in Surface Lay reaking in Sandy Soils ocal Hydric Soils List lational Hydric Soils List	yer in Sandy Soils
St. Ac. Re GI	ulfidic Odor quic Moisture educing Cond leyed or Low-	Regime ditions Chroma Colors of hydric soil were p	High Organ Organic Str Listed on L Listed on N	nic Content in Surface Lay reaking in Sandy Soils local Hydric Soils List	yer in Sandy Soils
emarks:	ulfidic Odor quic Moisture educing Concleyed or Low-	Regime ditions Chroma Colors of hydric soil were possible MINATION Present?	High Organ Organic Str Listed on L Listed on N Other (Expl	nic Content in Surface Lay reaking in Sandy Soils ocal Hydric Soils List lational Hydric Soils List	yer in Sandy Soils
ETLANI ydrophytic /etland Hy	ulfidic Odor quic Moisture educing Cond leyed or Low- No indicators	Regime ditions Chroma Colors of hydric soil were possible MINATION Present?	High Organ Organic Str Listed on L Listed on N Other (Expl	nic Content in Surface Lay reaking in Sandy Soils ocal Hydric Soils List lational Hydric Soils List	
ETLANI emarks: purpose of the control of the contr	D DETER C Vegetation of ydrology Present? Hydric veget	Regime ditions Chroma Colors of hydric soil were pure pure pure pure pure pure pure p	High Organic Structure Listed on Lusted on Nother (Exploresent in the data plot. Yes Nother Nother (Exploresent in the data plot.	aic Content in Surface Lay reaking in Sandy Soils ocal Hydric Soils List lational Hydric Soils List lain in Remarks) Is this Sampling Point Vere present. Wetland hyd	
emarks: purchase size of the control	D DETER C Vegetation of ydrology Present? Hydric veget	Regime ditions Chroma Colors of hydric soil were pure pure pure pure pure pure pure p	High Organic Structure Listed on Lusted on No Other (Exploresent in the data plot. Yes No No No but no obligate species we	aic Content in Surface Lay reaking in Sandy Soils ocal Hydric Soils List lational Hydric Soils List lain in Remarks) Is this Sampling Point Vere present. Wetland hyd	Vithin a Wetland? No rology and hydric soils werenot present in
emarks: purchase size of the control	D DETER C Vegetation of develong Present? Hydric veget the sampling	Regime ditions Chroma Colors of hydric soil were particular was dominant, point. The sampling	High Organic Structure Listed on Lusted on No Other (Exploresent in the data plot. Yes No No No but no obligate species we	aic Content in Surface Lay reaking in Sandy Soils ocal Hydric Soils List lational Hydric Soils List lain in Remarks) Is this Sampling Point V ere present. Wetland hyd nd.	Vithin a Wetland? No rology and hydric soils werenot present in

roject/Site: Gateway Pacific Term Applicant/Owner: Pacific Interd Investigator: M. Gray, E. Christen	national Terminals		Date: 23-Jan-07 County: Whatcom State: Washington				
Is the site significantly disturts the area a potential Probl	Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)						
/EGETATION							
Dominant Plant Species 1. Festuca rubra 2. Anthoxanthum odoratum 3	Herb FAC+ 70 Herb FACU 25 Herb FACU 25 delineator, not defined by FWS.	9	Stratum Indicator %				
Recorded Data (Describe in Rem Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:		Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Cha Water-Stained Lea Local Soil Survey I FAC-Neutral Test Other (Explain in R	: 12 Inches in Wellands or more required): annels in Upper 12 Inches aves Data				
.)	(in.) ult of heavy rainfall. No indicators o	Other (Explain in R					

axonomy	(Subgroup):	Typic hapi	orthods			Confirm	n Mapped Ty	pe? Yes	
ofile Des epth iches)	scription; Horizon	Matrix Co		Mottle Colors (Munsell Moist)	Mottle Abundan	ce/	Texture, Co Structure, e		_
0-16	Α	10YR	2/2	None	/ Non	ne	Loam		
					<i></i>				
							3-13-12-12-12-12-12-12-12-12-12-12-12-12-12-		u cowana
		: 33		t americani	/, -		=		
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-									3 50 TF 15 15 15 15 15 15 15 15 15 15 15 15 15
dric Soil	Indicators:								
Дн	stosol				ne				
Hi				Concretion	19 marin 11 10 mm m				
St	stic Epipedor ulfidic Odor			High Orga Organic S	nic Content in Surfa- treaking in Sandy So	ce Layer oils	in Sandy So	ils	
St Ad Re	ulfidic Odor quic Moisture educing Cond	Regime ditions	ors	High Orga Organic Si Listed on I Listed on I	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils	st	in Sandy So	ils	
St Ad Re	ulfidic Odor quic Moisture	Regime ditions	ors	High Orga Organic Si Listed on I Listed on I	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis	st	in Sandy So	ils	
St	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions Chroma Col		High Orga Organic S Listed on I Listed on I Other (Exp	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks)	st List			nt.
St	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions Chroma Col		High Orga Organic Si Listed on I Listed on I	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks)	st List			it.
St	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions Chroma Col		High Orga Organic S Listed on I Listed on I Other (Exp	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks)	st List			nt.
St	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions Chroma Col		High Orga Organic S Listed on I Listed on I Other (Exp	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks)	st List			nt.
St.	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions Chroma Col		High Orga Organic S Listed on I Listed on I Other (Exp	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks)	st List			it.
St. Ac	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog	Regime ditions •Chroma Col enous throu	ghout pit (High Orga Organic S Listed on I Listed on I Other (Exp	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks)	st List			nt.
St. Ac. Re GI	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog	Regime ditions Chroma Col	ghout pit (High Orga Organic S Listed on I Listed on I Other (Exp	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks)	st List			it.
TLANI drophytic etland H	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog D DETER c Vegetation ydrology Pres	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks)	st List			it.
TLANI drophytic etland H	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks)	st List	: soil indicat	ors are not preser	it.
TLANI drophytic etland H	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog D DETER c Vegetation ydrology Pres	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp to where standing water	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks) begins at 14 inches	st List	: soil indicat	ors are not preser	it.
TLANI drophytic etland Hy dric Soils	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog D DETER c Vegetation ydrology Pres	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp to where standing water	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks) begins at 14 inches	st List	: soil indicat	ors are not preser	nt.
TLANI drophytic etland Hy dric Soils	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog D DETER c Vegetation ydrology Pres	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp to where standing water	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks) begins at 14 inches	st List	: soil indicat	ors are not preser	nt.
FLANI drophytic etland Hydric Soils	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog D DETER c Vegetation ydrology Pres	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp to where standing water	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks) begins at 14 inches	st List	: soil indicat	ors are not preser	it.
FLANI drophytic etland Hydric Soils	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog D DETER c Vegetation ydrology Pres	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp to where standing water	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks) begins at 14 inches	st List	: soil indicat	ors are not preser	it.
FLANI drophytic etland Hydric Soils	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog D DETER c Vegetation ydrology Pres	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp to where standing water	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks) begins at 14 inches	st List	: soil indicat	ors are not preser	nt.
FLANI drophytic etland Hydric Soils	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog D DETER c Vegetation ydrology Pres	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp to where standing water	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks) begins at 14 inches	st List	soil indicat	ors are not preser	
TLANI drophytic etland Hy dric Soils	ulfidic Odor quic Moisture educing Cond leyed or Low Soil is homog D DETER c Vegetation ydrology Pres	Regime ditions • Chroma Column	ghout pit I	High Orga Organic S Listed on I Listed on I Other (Exp to where standing water	nic Content in Surfa treaking in Sandy Sc Local Hydric Soils Lis National Hydric Soils olain in Remarks) begins at 14 inches	st List	soil indicat	d?	

Yes Community ID: Upland Meadow Transect ID: No Plot ID: z-L13-UP-03 pminant Plant Species Stratum Indicator %
*Indicator prefix = assigned by delineator, not defined by FWS. cue that is likely an upland species, but remains unconfirmed due to the
etland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

xonomy (Subgroup):	Aquandic	endoaquai	fs		d Observations firm Mapped Type? No
ofile Desc opth ches)	cription: Horizon	Matrix C (Munsel		Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-10	Α	10YR	2/2	None	/ None	Loam
10-18	В	10YR	3/4	None	/ None	Sand
		-				
			rock to the second	* ****************		
#=#F						
His Su Aq Re	ndicators: stosol stic Epipedor lifidic Odor ulc Moisture ducing Con- eyed or Low	Regime ditions -Chroma Co		Organic S Listed on Listed on Other (Ex	ons anic Content in Surface La Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	yer in Sandy Soils
His Su Aq Aq Re Gle Marks: N	stosol stic Epipedor lfidic Odor uic Moisture ducing Cone eyed or Low	Regime ditions - Chroma Co	oils are pre	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surface La Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List	
FLANE TLANE Transport of the state of the	iticsol litic Epipedor litic Epipedor litic Moisture ducing Con- eyed or Low lo indicators Vegetation drology Present?	Regime ditions -Chroma Co s of hydric s RMINATIO Present? sent?	ON	High Organic S Cisted on Listed on Other (Ex esent.	anic Content in Surface La Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	

Date: 23-Jan-07 County: Whatcom State: Washington
? No Community ID: PEM Transect ID: Z-L14 Plot ID: Z-L14-WP-01
9
Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

conomy	(Subgroup):	Aquandic end	doaqualfs				Observations irm Mapped T	
file Des oth ches)	cription: Horizon	Matrix Color (Munsell Mo		Mottle Colors (Munsell Moist)	Mottle Abund	ance/	Texture, C Structure, e	oncretions,
0-10	Α	10YR 2/	/2	None	/ /	one	Loam	
10-18	В	10YR 3/	/3	None	/ /	one	Loam	
W 11 H	· **********			**************************************				
	-					wines.		
ric Soil	Indicators:			? —;:				
His	stosol			A	00			
St	stic Epipedor			Concretion High Organic S	nic Content in Sur	face Lay Soils	er in Sandy S	oils
Su Ad Re	lfidic Odor Juic Moisture Iducing Cond	Regime litions		High Orga Organic S Listed on Listed on	inic Content in Sur treaking in Sandy Local Hydric Soils National Hydric So	Soils List	er in Sandy S	pils
St Ad Re Gt	Iffidic Odor Juic Moisture Educing Cond Eyed or Low-	Regime litions Chroma Colors		High Orga Organic S Listed on Listed on	nic Content in Sur treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List	er in Sandy S	pils
Re GI	Iffidic Odor Juic Moisture Jucing Conc Jucing Conc Jucing Concepts	Regime litions Chroma Colors	are pres	High Orga Organic S Listed on Listed on Other (Ex	nic Content in Sur treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List	er in Sandy S	pils
Aq Aq Re Gr marks: M	Iffidic Odor Juic Moisture Jucing Conc Jucing Conc Jucing Concepts	Regime litions Chroma Colors rphic features MINATION Present?	are pres	High Orga Organic S Listed on Listed on Other (Exp ent, the soil is not hydri	nic Content in Sur treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List ils List		
LANI rophytic Soils	DETER Vegetation drology Present?	Regime litions Chroma Colors rphic features MINATION Present?	are presi	High Orga Organic S Listed on Listed on Other (Exp ent, the soil is not hydri	nic Content in Sur treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) ic.	Soils List ils List	/ithin a Wetla	nd? Yes
LANI rophytic Soils	DETER Vegetation drology Present?	Regime litions Chroma Colors rphic features MINATION Present?	are presi	High Orga Organic S Listed on Listed on Other (Exp ent, the soil is not hydri	nic Content in Sur treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) ic.	Soils List ils List	/ithin a Wetla	nd? Yes
LANE	DETER Vegetation drology Present?	Regime litions Chroma Colors rphic features MINATION Present?	are presi	High Orga Organic S Listed on Listed on Other (Exp ent, the soil is not hydri	nic Content in Sur treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) ic.	Soils List ils List	/ithin a Wetla	nd? Yes
LANE	DETER Vegetation drology Present?	Regime litions Chroma Colors rphic features MINATION Present?	are presi	High Orga Organic S Listed on Listed on Other (Exp ent, the soil is not hydri	nic Content in Sur treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) ic.	Soils List ils List	/ithin a Wetla	nd? Yes
LANE	DETER Vegetation drology Present?	Regime litions Chroma Colors rphic features MINATION Present?	are presi	High Orga Organic S Listed on Listed on Other (Exp ent, the soil is not hydri	nic Content in Sur treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) ic.	Soils List ils List	/ithin a Wetla	nd? Yes
LANE	DETER Vegetation drology Present? The vegetati	Regime litions Chroma Colors Price features MINATION Present? Sent?	A Y. N.	es o o vetland hydrology is pre	Inic Content in Surtreaking in Sandy Local Hydric Soils National Hydric Soils In Remarks) In Remarks In Remarks In Remarks In Remarks	Soils List ils List	is within a w	nd? Yes

roject/Site: Gateway Pacific To Applicant/Owner: Pacific Ir Investigator: D. Halladay, K. D	nternational Termin	nals			Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dis Is the area a potential Pro (If needed, explain on a	sturbed (Atypoblem Area?	ical Situa	ation)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L15 Plot ID: Z-L15-UP-02
Dominant Plant Species	Stratum	Indicator	0/0	Dominant Plant Species	Stratum Indicator %
1. Festuca rubra	Herb	FAC+		The state of the s	
Anthoxanthum odoratum	Herb	FACU	30		
		FAC	10		
Ranunculus repens	Herb	FACW	1	12	
Trifolium arvense	Herb		1	13	
Taraxacum officinale	Herb	Control of the Party of the Par		The second and the second seco	
Hvoochaeris radicata		FACU	5	The second secon	
Phalaris arundinacea	Herb	FACW	4		
*Indicator prefix = assigned	d by delineator, no		WS.	CHAPTER STATE OF THE STATE OF T	assigned by delineator, not defined by FWS.
Percent of Dominant Species that a (excluding FAC-).	re OBL, FACW o	t defined by F	1000	*Indicator prefix =	assigned by delineator, not defined by FWS.
Percent of Dominant Species that a (excluding FAC-). Remarks: Dominant vegetation in the second sec	tre OBL, FACW on the sampling point and above reflect the	r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 ba and Fescue species that are I	
Percent of Dominant Species that a (excluding FAC-). Remarks: Dominant vegetation in the in January. Species listed weedy species are primary. Percent of Dominant Species that a (excluding FAC-).	he sampling point a d above reflect the rily upland species.	r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 pa and Fescue species that are I be following May. Half of the dom	likely upland species, but were unconfirmed ninant species were OBL, FACW or FAC. The
Percent of Dominant Species that a (excluding FAC-). Remarks: Dominant vegetation in the in January. Species listed weedy species are primary. DROLOGY Recorded Data (Describe in Factorial Control of Control	tre OBL, FACW on the sampling point and above reflect the rily upland species. Remarks):	r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 ba and Fescue species that are I be following May. Half of the dom Wetland Hydrology Indicator Primary Indicators:	likely upland species, but were unconfirmed ninant species were OBL, FACW or FAC. The
Percent of Dominant Species that a (excluding FAC-). Remarks: Dominant vegetation in the in January. Species listed weedy species are primary. PROLOGY Recorded Data (Describe in Factorial Photographs.)	tre OBL, FACW on the sampling point and above reflect the rily upland species. Remarks):	r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 Do and Fescue species that are I be following May. Half of the dom Wetland Hydrology Indicator Primary Indicators: Inundated	likely upland species, but were unconfirmed hinant species were OBL, FACW or FAC. The
ercent of Dominant Species that a (excluding FAC-). temarks: Dominant vegetation in the in January. Species listed weedy species are primare. DROLOGY Recorded Data (Describe in Factorial Photographs Other	tre OBL, FACW on the sampling point and above reflect the rily upland species. Remarks):	r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 ba and Fescue species that are I be following May. Half of the dom Wetland Hydrology Indicator Primary Indicators:	likely upland species, but were unconfirmed hinant species were OBL, FACW or FAC. The
ercent of Dominant Species that a (excluding FAC-). temarks: Dominant vegetation in the in January. Species listed weedy species are primare. DROLOGY Recorded Data (Describe in Factorial Photographs Other	tre OBL, FACW on the sampling point and above reflect the rily upland species. Remarks):	r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 Da and Fescue species that are lest following May. Half of the dom Wetland Hydrology Indicators: Inundated Saturated in Upper Water Marks Drift Lines	dikely upland species, but were unconfirmed ninant species were OBL, FACW or FAC. The
Percent of Dominant Species that a (excluding FAC-). Remarks: Dominant vegetation in the in January. Species listed weedy species are primary. PROLOGY Recorded Data (Describe in Factorial Photographs Other No Recorded Data Available	tre OBL, FACW on the sampling point and above reflect the rily upland species. Remarks):	r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 Da and Fescue species that are I be following May. Half of the dom Wetland Hydrology Indicator Primary Indicators: Inundated V Saturated in Upper Water Marks Drift Lines Sediment Deposit	dikely upland species, but were unconfirmed ninant species were OBL, FACW or FAC. The
Percent of Dominant Species that a (excluding FAC-). Remarks: Dominant vegetation in the in January. Species listed weedy species are primary. DROLOGY Recorded Data (Describe in Factorial Photographs Other No Recorded Data Available	tre OBL, FACW on the sampling point and above reflect the rily upland species. Remarks):	r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 Da and Fescue species that are I be following May. Half of the dom Wetland Hydrology Indicators: Inundated Saturated in Upper Water Marks Drift Lines Drainage Patterns Secondary Indicators (2	assigned by delineator, not defined by FWS. likely upland species, but were unconfirmed ninant species were OBL, FACW or FAC. The ors: er 12 Inches ts s in Wetlands 2 or more required):
Percent of Dominant Species that a (excluding FAC-). Remarks: Dominant vegetation in the in January. Species listed weedy species are primary. PROLOGY Recorded Data (Describe in Factorial Photographs Other No Recorded Data Available	he sampling point and above reflect the rily upland species. Remarks):	r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 ba and Fescue species that are I be following May. Half of the dom Wetland Hydrology Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposity Drainage Patterns Secondary Indicators (2 Oxidized Root Ch	dikely upland species, but were unconfirmed hinant species were OBL, FACW or FAC. The ors: er 12 Inches its in Wetlands 2 or more required): hannels in Upper 12 Inches
Percent of Dominant Species that a (excluding FAC-). Remarks: Dominant vegetation in the in January. Species listed weedy species are primare. PROLOGY Recorded Data (Describe in Factorial Photographs Other No Recorded Data Available. Field Observations: Depth of Surface Water:	he sampling point and above reflect the rily upland species. Remarks): uge	t defined by F r FAC are an uniden species ident	tified Po	*Indicator prefix = 50 ba and Fescue species that are I be following May. Half of the dom Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2 Oxidized Root Chellows (2) Water-Stained Le	dikely upland species, but were unconfirmed hinant species were OBL, FACW or FAC. The ors: er 12 Inches ts s in Wetlands 2 or more required): hannels in Upper 12 Inches
Percent of Dominant Species that a (excluding FAC-). Remarks: Dominant vegetation in the in January. Species listed weedy species are primare. PROLOGY Recorded Data (Describe in Factorial Photographs Other). No Recorded Data Available. Field Observations:	he sampling point and above reflect the rily upland species. Remarks): uge	t defined by F	tified Po	*Indicator prefix = 50 ba and Fescue species that are I be following May. Half of the dom Wetland Hydrology Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposity Drainage Patterns Secondary Indicators (2 Oxidized Root Ch	dikely upland species, but were unconfirmed hinant species were OBL, FACW or FAC. The ors: er 12 Inches ts s in Wetlands 2 or more required): hannels in Upper 12 Inches

	d Phase): _ ^{[VVI} (Subgroup): ₋	hitehorn si	endosqua	lfc			Field	age Class: Observations	pe? N	drained	
axonomy	(Subgroup): _	Aquantic	eridoaqua	113			Confi	rm Mapped Typ	pe? [N	U	
rofile Des epth nches)	cription: Horizon	Matrix C (Munsel		Mottle Col		Mottle Abur Size/Contrast	idance/	Texture, Cor Structure, etc		s,	_
0-12	Α	2.5YR	3/1		None		None	Loam			
12-14	A2	2.5YR	4/2		None	/	None	Loam			
14-18	В	5YR	5/2	10YR	5/6	25% /	Prominent	Sandy Cla	ay Loam		
								-			
	-					/					
75.42	Indicators:										
∏ Re Gl marks:	quic Moisture educing Cond eyed or Low-t Fhe soil is low soil is not hyd	itions Chroma Co chroma v		upper 12 inche	Listed or Listed or Other (E	Streaking in Sand n Local Hydric Soin National Hydric S Explain in Remarks cause redoxymorp	ils List Soils List s)	s are not prese	ent in th	e upper 1	2 inche
Re Gl	educing Cond eyed or Low- The soil is low	itions Chroma Co chroma v		upper 12 inche	_ Organic _ Listed or _ Listed or _ Other (E	n Local Hydric Soi n National Hydric Explain in Remarks	ils List Soils List s)	s are not prese	ent in th	e upper 1	2 inche
emarks:	DETER	chroma Control of the chroma which chroma wh	within the u	upper 12 inche	_ Organic _ Listed or _ Listed or _ Other (E	n Local Hydric Soi n National Hydric Explain in Remarks	ils List Soils List s)	s are not prese	ent in th	e upper 1	2 inche
emarks:	chucing Condeyed or Low-	chroma Control of the chroma with the chroma w	within the u	35.001	_ Organic _ Listed or _ Listed or _ Other (E	n Local Hydric Soin National Hydric Soin National Hydric Soin Remarks sause redoxymorp	ls List Soils List s) ohic feature	s are not prese		001	2 inche
emarks:	DETERIC Vegetation Fydrology Present?	chroma Control of the chroma which chroma wh	ON	No No No	Organic Listed or Listed or Other (E	In Local Hydric Soin National Hydric Soin National Hydric Soin National Hydric Soin National Hydric Solution in Remarks sause redoxymorp Is this Sample Vikelihood of we	is List Soils List s) ohic feature	ithin a Wetland	d? N	D	

r roject/Site: _{Gateway} Pacific T Applicant/Owner: <u>Pacific I</u> Investigator: <u>D. Halladay, K.</u>	nternational Terminals		Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance s the site significantly dis s the area a potential Pr (If needed, explain on	sturbed (Atypical Situation) oblem Area?	Yes No No	Community ID: Upland Meadow Transect ID: Z-L15 Plot ID: Z-L15-UP-03
GETATION		×	
*Indicator prefix = assigned fercent of Dominant Species that a (excluding FAC-). temarks: Dominant vegetation in the while grasses were in blo	Herb FACU 40 Herb UPL 5 Herb NI 5 Herb NI 1 d by delineator, not defined by FWS. Are OBL, FACW or FAC	9	Stratum Indicator %
DROLOGY Recorded Data (Describe in F Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available		Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit	or 12 Inches

axonomy	(Subgroup):	Aquandic	endoaqua	lfs		ld Observations offirm Mapped Type?
rofile Des epth nches)	ecription: Horizon	Matrix C		Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-16	Α	10YR	3/2	None	/ None	Loam
16-18	В	10YR	3/2	None	/ None	Silty Clay Loam
		ir waxaan		-		**************************************
er kesank					!	
		-:		-		
100	Iffidia Odor	n		High Orga	anic Content in Surface La	yer in Sandy Soils
Ac Ri G emarks:	ulfidic Odor quic Moisture educing Con leyed or Low The soil mate point is in a	Regime ditions -Chroma Co		Organic S Listed on Listed on Other (Ex	Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	yer in Sandy Soils t and it does not appear that the samplin
TLANI /drophyticetland Hydric Soil emarks:	DETER C Vegetation ydrology Present?	Regime ditions -Chroma Corix is relative wetland. RMINATI Present? sent?	ON	No N	Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) c features are not presen Is this Sampling Point	t and it does not appear that the samplin
TLANI /drophyticetland Hydric Soil emarks:	DETER C Vegetation ydrology Present?	Regime ditions -Chroma Corix is relative wetland. RMINATI Present? sent?	ON	No No No	Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) c features are not presen Is this Sampling Point	t and it does not appear that the samplin

roject/Site: Gateway Pacific T Applicant/Owner: Pacific In Investigator: D. Halladay, K. I	nternational Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pro (If needed, explain on	sturbed (Atypoblem Area?	ical Situa	ation)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L19 Plot ID: Z-L19-UP-01
Ranunculus acris Ranunculus acris Holcus lanatus Festuca rubra Trifolium repens Anthoxanthum odoratum Alopecurus pratensis Mvosotis scorpioides Cirsium arvense *Indicator prefix = assigned ercent of Dominant Species that a (excluding FAC-).	Herb Herb Herb Herb Herb d by delineator, note OBL, FACW of the part of the pa	FAC FACU FACW FACW FACU+ t defined by F	1 30 10 5 10 10 10 1 1 EWS.	10	assigned by delineator, not defined by FWS.
PROLOGY Recorded Data (Describe in F Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: □epth to Saturated Soil:	uge 1	one (in.) 1 (in.) face (in.)		Wetland Hydrology Indicator Primary Indicators: Inundated V Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2 Oxidized Root Ch Water-Stained Leaders FAC-Neutral Test Other (Explain in F	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves Data

file Des	cription:							
oth hes)	Horizon	Matrix C (Munse		Mottle Colors (Munsell Moist)	Mottle Abunda Size/Contrast	nce/	Texture, Co Structure, e	
0-11	A	7.5YR	3/2	None	/ No	ne	Silt Loar	n
11-21	В	2.5Y	5/2	10YR 4/4	15% / Pro	ominent	Silt Loar	m

	-		and actions				-	
	- RECEIPTED	. :					************	
ric Soil I	ndicators:							
	******			11 22000000000				
1-60	itosol			Concretion		000 1 000	e in Candy Co	alla.
Su	itic Epipedor Ifidic Odor			High Orga Organic S	nic Content in Surf treaking in Sandy S	Soils	r in Sandy So	oils
Su Aq Re	stic Epipedon Ifidic Odor uic Moisture ducing Cond	Regime ditions	olors	High Orga Organic S Listed on Listed on	inic Content in Surf treaking in Sandy S Local Hydric Soils L National Hydric Soil	Soils .ist	r in Sandy So	oils
Su Aq Re Gle	stic Epipedon Ifidic Odor uic Moisture ducing Conc eyed or Low- celatively low	Regime ditions Chroma Co	olors are p	High Orga Organic S Listed on Listed on Other (Ex	inic Content in Surfi treaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) il matrix, but redox	Soils .ist s List		e not present above 10 in
Su Aq	stic Epipedon Ifidic Odor uic Moisture ducing Conc eyed or Low- celatively low	Regime ditions Chroma Co dichroma co e of hydrics	olors are p soils is que	High Orga Organic S Listed on Listed on Other (Exp	inic Content in Surfi treaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) il matrix, but redox	Soils .ist s List		
Su Aq Aq Re Gle	etic Epipedor Ifidic Odor uic Moisture ducing Concepted or Low- delatively low	Regime ditions Chroma Control Chroma Control Chroma Control Control Chroma Chr	olors are p soils is que	High Orga Organic S Listed on Listed on Other (Exp resent throughout the soil stionable in the sampling	inic Content in Surfi treaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) il matrix, but redox	Soils .ist s List		
Su Aq Re Gle narks: R T	etic Epipedor Ifidic Odor uic Moisture ducing Cond eyed or Low- telatively low the presence	Regime ditions Chroma Control Chroma Control Chroma Control Control Chroma Chr	olors are p soils is que	High Orga Organic S Listed on Listed on Other (Exp resent throughout the soi stionable in the sampling	inic Content in Surfi treaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) il matrix, but redox	Soils list s List	c features are	e not present above 10 in
Su Aq Re Gle Marks: R T	etic Epipedor Ifidic Odor uic Moisture ducing Concepted or Low- delatively low- the presence DETER Vegetation drology Preserves Present?	Regime ditions Chroma Control of hydric sent?	olors are p soils is que	High Orga Organic S Listed on Listed on Other (Exp resent throughout the so stionable in the sampling	Inic Content in Surfitreaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) If matrix, but redox point. Is this Sampling	Soils Jist s List s List	c features are	e not present above 10 in
Su Aq Re Gle Marks: R T	etic Epipedor Ifidic Odor uic Moisture ducing Concepted or Low- delatively low- the presence DETER Vegetation drology Preserves Present?	Regime ditions Chroma Control of hydric sent?	olors are p soils is que	High Orga Organic S Listed on Listed on Other (Exp resent throughout the soil stionable in the sampling	Inic Content in Surfitreaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) If matrix, but redox point. Is this Sampling	Soils Jist s List s List	c features are	e not present above 10 in
LANE	etic Epipedor Ifidic Odor uic Moisture ducing Concepted or Low- delatively low- the presence DETER Vegetation drology Preserves Present?	Regime ditions Chroma Control of hydric sent?	olors are p soils is que	High Orga Organic S Listed on Listed on Other (Exp resent throughout the so stionable in the sampling	Inic Content in Surfitreaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) If matrix, but redox point. Is this Sampling	Soils Jist s List s List	c features are	e not present above 10 in
LANE	etic Epipedor Ifidic Odor uic Moisture ducing Concepted or Low- delatively low- the presence DETER Vegetation drology Preserves Present?	Regime ditions Chroma Control of hydric sent?	olors are p soils is que	High Orga Organic S Listed on Listed on Other (Exp resent throughout the so stionable in the sampling	Inic Content in Surfitreaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) If matrix, but redox point. Is this Sampling	Soils Jist s List s List	c features are	e not present above 10 in
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LANE	etic Epipedor Ifidic Odor uic Moisture ducing Concepted or Low- delatively low- the presence DETER Vegetation drology Preserves Present?	Regime ditions Chroma Control of hydric sent?	olors are p soils is que	High Orga Organic S Listed on Listed on Other (Exp resent throughout the so stionable in the sampling	Inic Content in Surfitreaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks) If matrix, but redox point. Is this Sampling	Soils Jist s List s List	c features are	e not present above 10 in

roject/Site: Gateway Pacific Applicant/Owner: Pacific	International Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance s the site significantly di s the area a potential Pr (If needed, explain on	sturbed (Atyr roblem Area?	ical Situa	ation)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L19 Plot ID: Z-L19-UP-02
ominant Plant Species		Indicator		Dominant Plant Species	Stratum Indicator %
Hypochaeris radicata	Herb	FACU	75	9	
Trifolium sp.	<u>Herb</u>	<u>NI</u>	1	10	
Plantago sp. Poa sp.	Herb	<u>NI</u>			
	Herb			O CIPT PLANTAGE AND ADDRESS OF THE PARTY OF	
Unid'd grass sp.	Herb	<u>NI</u>			
Alopecurus pratensis	Herb	FACW		The state of the s	
Festuca so. Anthoxanthum odoratum					
*Indicator prefix = assigne		FACU	20.77		assigned by delineator, not defined by FWS.
(excluding FAC-).	he sampling point is				, but remains unconfirmed due to the species (Hypochaeris radicata) and is
emarks: A dominant species in the absence of seed heads of generally indicative of an arrangement of the second se	during the January		e outer		
emarks: A dominant species in the absence of seed heads of generally indicative of a DROLOGY	during the January n upland plot in the		e outer		
emarks: A dominant species in the absence of seed heads of generally indicative of a DROLOGY Recorded Data (Describe in	during the January on upland plot in the Remarks);		e ourier	Wetland Hydrology Indicate	
emarks: A dominant species in the absence of seed heads of generally indicative of a DROLOGY	during the January on upland plot in the Remarks);		e outer	Wetland Hydrology Indicate Primary Indicators: Inundated	ors:
A dominant species in the absence of seed heads of generally indicative of an an analysis of the property of t	during the January on upland plot in the Remarks);		e dulei	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe	ors:
A dominant species in the absence of seed heads of generally indicative of an an analysis of the process of the absence of seed heads of generally indicative of an analysis of the process of the proces	during the January on upland plot in the Remarks);		e dulei	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe	ors:
DROLOGY Recorded Data (Describe in Laberally indicative of an Laberally in	during the January on upland plot in the Remarks);		e dulei	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit	ors: er 12 Inches
PROLOGY Recorded Data (Describe in Laberally indicative of an Laberally in	during the January on upland plot in the Remarks);		e dulei	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns	ors: er 12 Inches ts s in Wetlands
PROLOGY Recorded Data (Describe in Line Stream, Lake, or Tide Gamerial Photographs Other No Recorded Data Available	during the January in upland plot in the Remarks);	study area.	-	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2	ors: er 12 Inches ts s in Wetlands
A dominant species in the absence of seed heads of generally indicative of an appearance of seed heads of generally indicative of an appearance of seed heads of generally indicative of an appearance of seed heads of seed and seed of seed	during the January in upland plot in the Remarks); auge	one (in.)	-	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2 Oxidized Root Ch	ors: er 12 Inches es in Wetlands 2 or more required): eannels in Upper 12 Inches aves
emarks: A dominant species in the absence of seed heads of generally indicative of all and the process of the process of the absence of seed heads of generally indicative of all and the process of the	during the January in upland plot in the Remarks); auge	study area.	-	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2	ors: er 12 Inches es in Wetlands 2 or more required): nannels in Upper 12 Inches aves Data

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xonomy	(Subgroup): _	Aquandic	endoaquairs	•		Confi	rm Mapped Ty	pe? No	
ofile Desc oth ches)	cription: Horizon	Matrix Co		Mottle Colors (Munsell Moist)	Mottle Abund Size/Contrast	ance/	Texture, Co Structure, e		-
0-2	Α	7.5YR	3/2	None	1.1	None	Silt Loan	1	
2-12	8	10YR	2/2	None	/ 1	Vone	Sandy Lo	oam	
									27-700 24-25
	-	-			/				
☐ His	Indicators:								
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Su Aq	stic Epipedon ulfidic Odor juic Moisture le educing Cond eyed or Low-(tions Chroma Co x is relative etland. WINATIO	ON	High Organi Organic Stre Listed on Lo Listed on Na Other (Expla	ic Content in Su eaking in Sandy ocal Hydric Soils ational Hydric So ain in Remarks)	Soils List Dils List of present	and it does n	ot appear that the sa	mpling
FLANE drophytic betand Hydric Soils marks:	stic Epipedon Ilfidic Odor Juic Moisture I Educing Cond eyed or Low- The soil matrix Point is in a w DETERI C Vegetation F Vdrology Pres S Present? Due to the do	tions Chroma Co is relative etland. WINATI Present? ent?	ON A Of confirmed	High Organi Organic Stre Listed on Lo Listed on Na Other (Expla	c Content in Sueaking in Sandy ocal Hydric Soils ational Hydric Scain in Remarks) features are no leading the sampling secies, the unlike the sampling occies, the unlike the sampling occies occies occies the sampling occies occies occios, the unlike the sampling occies occios, the sampling occies occios, the sampling occies occios, the sampling occios o	g Point W	and it does n	ot appear that the sa	
Su Aq	stic Epipedon Ilfidic Odor Juic Moisture I Educing Cond eyed or Low- The soil matrix Point is in a w DETERI C Vegetation F Vdrology Pres S Present? Due to the do	tions Chroma Co is relative etland. WINATI Present? ent?	ON A Of confirmed	High Organi Organic Stre Listed on Lo Listed on No Other (Explain ma. But, redoxymorphic	c Content in Sueaking in Sandy ocal Hydric Soils ational Hydric Scain in Remarks) features are no leading the sampling secies, the unlike the sampling occies, the unlike the sampling occies occies occies the sampling occies occies occios, the unlike the sampling occies occios, the sampling occies occios, the sampling occies occios, the sampling occios o	g Point W	and it does n	ot appear that the sa	owing

r roject/Site: Gateway Pacific Te Applicant/Owner: Pacific In Investigator: D. Halladay, K. D	ternational Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dist Is the area a potential Pro (If needed, explain on r	turbed (Atyp blem Area?	ical Situa	ation)	Yes No	Community ID: Upland Meadow Transect ID: Z-L19 Plot ID: Z-L19-UP-03
GETATION				- Anales II de	
Dominant Plant Species	Stratum	Indicator	_ %	Dominant Plant Species	Stratum Indicator %
Equisetum telmateia	<u>Herb</u>	_ EACW	25		
Alopecurus pratensis	<u>Herb</u>	_ FACW	30		
Festuca rubra Plantago lanceolata	Herb	FAC+	- 10	The state of the s	
Rubus laciniatus	Herb	FAC	1		
Rubus laciniatus Anthoxanthum odoratum	Snrub	FACU+	30	13	
Anthoxanthum odoratum					
Holcus lanatus					
*Indicator prefix = assigned					assigned by delineator, not defined by FWS.
ercent of Dominant Species that ar	re OBL, FACW o	FAC		75%	
(excluding FAC-). Remarks: The sampling plot was reverent consisted of four un	identified species	and a mixtur	e of FAC		ecies present in May. The January sampling estuca sp 25, Rubus Iaciniatus FACU+ 10, 60, Trifolium sp 1}
(excluding FAC-). emarks: The sampling plot was reverent consisted of four un	identified species AC 20, Cirsium an	and a mixtur	e of FAC	and mostly FACU species. {Fe	estuca sp 25, Rubus laciniatus FACU+ 10, 60, Trifolium sp 1}
emarks: The sampling plot was reverent consisted of four un Rosa sp 10, Alnus rubra F DROLOGY Recorded Data (Describe in Rown Stream, Lake, or Tide Gau	identified species AC 20, Cirsium an	and a mixtur	e of FAC	Wetland Hydrology Indicat Primary Indicators:	estuca sp 25, Rubus laciniatus FACU+ 10, 60, Trifolium sp 1} ors:
excluding FAC-). emarks: The sampling plot was reverent consisted of four un Rosa sp 10, Alnus rubra F DROLOGY Recorded Data (Describe in Royal Stream, Lake, or Tide Gaul Aerial Photographs	identified species AC 20, Cirsium an	and a mixtur	e of FAC	Wetland Hydrology Indicat Primary Indicators: Inundated Saturated in Uppe	estuca sp 25, Rubus laciniatus FACU+ 10, 60, Trifolium sp 1} ors:
emarks: The sampling plot was reverent consisted of four un Rosa sp 10, Alnus rubra F	identified species AC 20, Cirsium an	and a mixtur	e of FAC	Wetland Hydrology Indicat Primary Indicators: Inundated Water Marks Drift Lines	estuca sp 25, Rubus laciniatus FACU+ 10, 60, Trifolium sp 1} ors:
emarks: The sampling plot was reverent consisted of four un Rosa sp 10, Alnus rubra F DROLOGY Recorded Data (Describe in Rosa Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	identified species AC 20, Cirsium an	and a mixtur	e of FAC	Wetland Hydrology Indicat Primary Indicators: Inundated Water Marks Drift Lines Sediment Deposit	estuca sp 25, Rubus laciniatus FACU+ 10, 60, Trifolium sp 1} ors: er 12 Inches
emarks: The sampling plot was revevent consisted of four un Rosa sp 10, Alnus rubra F DROLOGY Recorded Data (Describe in Rosa Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	identified species AC 20, Cirsium an	and a mixtur	e of FAC	Wetland Hydrology Indicat Primary Indicators: Inundated Vater Marks Drift Lines Drainage Pattern Secondary Indicators (estuca sp 25, Rubus laciniatus FACU+ 10, 60, Trifolium sp 1} ors: er 12 Inches its s in Wetlands 2 or more required):
excluding FAC-). emarks: The sampling plot was reverent consisted of four un Rosa sp 10, Alnus rubra F DROLOGY Recorded Data (Describe in Royal Photographs Aerial Photographs Other No Recorded Data Available eld Observations:	emarks):	and a mixtur	e of FAC	Wetland Hydrology Indicat Primary Indicators: Inundated Vater Marks Drift Lines Drainage Pattern Secondary Indicators (Oxidized Root CI	estuca sp 25, Rubus laciniatus FACU+ 10, 60, Trifolium sp 1} ors: er 12 Inches its s in Wetlands 2 or more required): nannels in Upper 12 Inches
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axonomy	(3							onfirm Mapped Type? No
rofile Des epth nches)	ecription; Horizon	Matrix C		Mottle Co		Mottle Abur Size/Contrast		Texture, Concretions, Structure, etc.
0-13	Α	10YR	3/2		None	1	None	Silt Loam
13-17	В	10YR	4/2	10YR	5/3	15% /	Faint	Sandy Loam
								Parties Services of National Property Control of Contro
		47) - 100			~~~			
1-1	Indicators:			-	_			
	stosol			3	_ Concretion		Surface L	
	stic Epipedo	n			_ High Orga	IIIC Coment in a		ayer in Sandy Soils
St	ulfidic Odor quic Moisture	Regime		1 	_ Organic S _ Listed on I	treaking in San Local Hydric So	dy Soils ils List	
Ac Re G	ulfidic Odor quic Moisture educing Con leyed or Low	Regime ditions -Chroma Co		ut because re	Organic S Listed on I Listed on I Other (Exp	treaking in San Local Hydric So National Hydric olain in Remark	dy Soils ils List Soils Lis s)	
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ETLANI Iydrophytic Vetland H Iydric Soil	DETER C Vegetation ydrology Present? Due to the c	Regime ditions -Chroma Collatively low RMINATI Present? sent?	ON On Of one FAC	No No No species and	Organic S Listed on I Listed on I Other (Exp	treaking in Sand Local Hydric So National Hydric Islain in Remark: C features are r	dy Soils ils List Soils Liss) not prese	t Within a Wetland?
emarks: -	DETER C Vegetation ydrology Present? Due to the c	Regime ditions -Chroma Collatively low RMINATI Present? sent?	ON On Of one FAC	No No No species and	Organic S Listed on I Listed on I Other (Exp	treaking in Sand Local Hydric So National Hydric clain in Remark: c features are r	dy Soils ils List Soils Liss) not prese	t Within a Wetland? No unlikelihood of wetland hydrology during the
emarks: -	DETER C Vegetation ydrology Present? Due to the c growing sea	Regime ditions -Chroma Collatively low RMINATI Present? sent?	ON On FACtor of the lack of h	No No species and ydric soils, th	Organic S Listed on I Listed on I Other (Exp edoximorphic	treaking in Sand Local Hydric So National Hydric clain in Remark: c features are r ls this Sampl ls this Sampl ed upland spec point is not wit	dy Soils ils List Soils List s) not prese	t Within a Wetland?

	18-17				
r-roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: D. Halladay, K.	International Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atyp oblem Area?	ical Situa	ation)	Yes No No	Community ID: PEM Transect ID: Z-L19 Plot ID: Z-L19-wp-01
/EGETATION					
Dominant Plant Species	Stratum	Indicator	_ %	Dominant Plant Species	Stratum Indicator %
1. Agrostis sp.	Herb	NI	60	The Department of the Control of the	
Spiraea douglasii	Shrub	FACW	15		
3. Phalaris arundinacea	Herb	FACW	1		
4. Juncus errusus	Herb	_ FACW	1		
5. Trifolium sp.	Herb	NI			
6. Rubus armeniacus	Shrub	FACU	5	A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF	
7. Rubus laciniatus		FACU+	5	15	
 Unid'd grass sp. 					
*Indicator prefix = assigne	ed by delineator, not	defined by I	WS.		assigned by delineator, not defined by FWS.
Percent of Dominant Species that (excluding FAC-).	are OBL, FACW o	r FAC			
unconfirmed due to the (Rubus discolor and Rub	absence of seed hea ous lacinatus) and ty	ads during the vo FACW spe	e Janua cies (Ph	ry sampling. Spiraea douglasii is alaris arundinacea and Juncus e	hat are likely upland species, but remains s present at 15% and two FACU species ffusus) are present within the plot at trace tland vegetation in the sampling point is not
Recorded Data (Describe in I	Remarks):			Wetland Hydrology Indicato	ors:
Stream, Lake, or Tide Ga				Primary Indicators:	8-F
Aerial Photographs				Inundated	
☐ Other No Recorded Data Available				Saturated in UpperWater Marks	r 12 Inches
No Necolded Data Available				Drift Lines	
D7 89949 33				Sediment Deposit	s
Field Observations:				Drainage Patterns Secondary Indicators (2	
Depth of Surface Water:	No	ne(in.)	í		annels in Upper 12 Inches
	-	(,,,,,		Water-Stained Lea	aves
Depth to Free Water in Pit:	8	3(in.))	Local Soil Survey	
Depth to Saturated Soil:	Sur	face(in.))	FAC-Neutral Test Other (Explain in F	
The sampling point is sa Remarks: the sampling point and the	turated to the surfa would satisfy wetlan	ce and most od criteria du	of the s	surrounding area is inundated, su growing season.	ggesting that wetland hydrology is present in

xonomy (Subgroup):	Aquandic	endoaqual	fs				Observations m Mapped Typ	pe? Yes
ofile Desc pth ches)	ription: Horizon	Matrix C (Munsel		Mottle Co		Mottle Abunda Size/Contrast	ince/	Texture, Co Structure, etc	
0-10	Α	7.5YR	2.5/1		None	/ N	one	Silt Loam	
10-16	В	2.5Y	3/2	7.5YR	4/3	15% / D	istinct	Silty Clay	Loam
	************		-	N					
						/			
				-:					
dric Soil In	ndicators:								
Hist	tosol tic Epipedor fidic Odor	n		1	_ Concretio _ High Orga	anic Content in Sur	face Lay	er in Sandy So	ls
Hist Sult Aqu Rec	tic Epipedor fidic Odor uic Moisture ducing Cond	Regime ditions	Nore		_ High Orga _ Organic S _ Listed on _ Listed on	anic Content in Suri Streaking in Sandy Local Hydric Soils I National Hydric Soi	Soils List	er in Sandy So	ls
Hist	tic Epipedor fidic Odor uic Moisture ducing Cond yed or Low	Regime ditions -Chroma Co	3,4057.	ohic features i	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Suri Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks)	Soils List ils List		is resent in the sampling po
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Hist Sulf Sulf Aqu Record Gle	tic Epipedor fidic Odor vic Moisture ducing Con- yed or Low ow chroma	Regime ditions -Chroma Cocolor and research	edoxymorp ON	No	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Suri Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks)	Soils List ils List		
FLAND	tic Epipedor fidic Odor lic Moisture ducing Cone yed or Low ow chroma	Regime ditions -Chroma Co color and re	edoxymorp ON		High Orga Organic S Listed on Listed on Other (Ex	anic Content in Suri Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks)	Soils List ils List	dric soils are p	resent in the sampling po
FLAND drophytic etland Hydric Soils	DETER Vegetation drology Pre Present?	Regime ditions -Chroma Co color and re	edoxymorp ON	No Yes Yes	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surfice Soils In Sandy Surfice Soils In National Hydric Soils In Remarks) 12 inches indicate In Surfice Soils In Remarks	Soils List ils List e that hy	dric soils are p	resent in the sampling po
FLAND Transport of the first state of the first st	DETER Vegetation drology Pre Present?	Regime ditions -Chroma Co color and re	edoxymorp ON	No Yes Yes	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surfice Soils In Sandy Surfice Soils In National Hydric Soils In Remarks) 12 inches indicate In Surfice Soils In Remarks	Soils List ils List e that hy	dric soils are p	resent in the sampling po
FLAND drophytic etland Hydric Soils	DETER Vegetation drology Pre Present?	Regime ditions -Chroma Co color and re	edoxymorp ON	No Yes Yes	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surfice Soils In Sandy Surfice Soils In National Hydric Soils In Remarks) 12 inches indicate In Surfice Soils In Remarks	Soils List ils List e that hy	dric soils are p	resent in the sampling po
FLAND Transport of the first state of the first st	DETER Vegetation drology Pre Present?	Regime ditions -Chroma Co color and re	edoxymorp ON	No Yes Yes	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surfice Soils In Sandy Surfice Soils In National Hydric Soils In Remarks) 12 inches indicate In Surfice Soils In Remarks	Soils List ils List e that hy	dric soils are p	resent in the sampling po
FLAND Transport of the control of t	DETER Vegetation drology Pre Present?	Regime ditions -Chroma Co color and re	edoxymorp ON	No Yes Yes	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surfice Soils In Sandy Surfice Soils In National Hydric Soils In Remarks) 12 inches indicate In Surfice Soils In Remarks	Soils List ils List e that hy	dric soils are p	resent in the sampling po

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Christensen		Date: 06-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	? Yes No No No	Community ID: Upland Meadow Transect ID: Z-L21 Plot ID: Z-L21-UP-01
EGETATION		
Dominant Plant Species 1. Festuca rubra	9	Stratum Indicator %
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: Surface (in.)	Wetland Hydrology Indicator Primary Indicators: Inundated V Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Oxidized Root Chater Water-Stained Leaders Local Soil Survey FAC-Neutral Test Other (Explain in F	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

	(Subgroup):	Aquandic endoaqu	alfs		eld Observations nfirm Mapped Type? No
ofile Des oth ches)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-18	Α	10YR 2/2	None	/ None	Loam
		T. 200-40-40-40-40-40-40-40-40-40-40-40-40-4			** ************************************
	-	-			
				- <u>- '</u>	-
Iric Soil	Indicators:				
Hi	stosol stic Epipedo		Concretio		
Ac Re Gl marks:	ulfidic Odor quic Moisture educing Con leyed or Low The soil mate	e Regime ditions Chroma Colors	Organic S Listed on Listed on Other (Ex	anic Content in Surface L Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) edoxymorphic features a	1990 (1.) 18 No. 6, 1993 (1.) (1990) 14 Per (1.) (1.) (1.) (1.) (1.) (1.) (1.) (1.) (1.) (1.) (1.)
Ac Re GI	ulfidic Odor quic Moisture educing Con leyed or Low The soil mate soils are not	Regime ditions -Chroma Colors rix is relatively dark to the samp RMINATION	Organic S Listed on Listed on Other (Ex out not low-chroma, and re ing point.	Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	
Ac Re GI Marks:	ulfidic Odor quic Moisture educing Con leyed or Low The soil mate soils are not	Regime ditions -Chroma Colors rix is relatively dark to the samp RMINATION Present?	Organic S Listed on Listed on Other (Ex	Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	re not present in the upper 12 inches. Hyd
TLANI drophytic etland Hy dric Soils marks:	ulfidic Odor quic Moisture educing Con leyed or Low The soil mate soils are not Use Vegetation ydrology Pre s Present? Wetland veg	Regime ditions -Chroma Colors rix is relatively dark I present in the samp RMINATION Present? seent?	Organic S Listed on Listed on Other (Ex out not low-chroma, and re ing point. No Yes No	Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) edoxymorphic features a Is this Sampling Point sampling point. Wetland	re not present in the upper 12 inches. Hyd
Ac Re GI Marks: 7 S	ulfidic Odor quic Moisture educing Con leyed or Low The soil mate soils are not Use Vegetation ydrology Pre s Present? Wetland veg	Regime ditions -Chroma Colors rix is relatively dark I present in the samp RMINATION Present? seent?	Organic S Listed on Listed on Other (Ex out not low-chroma, and re ing point. No Yes No Dils are not present in the	Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) edoxymorphic features a Is this Sampling Point sampling point. Wetland	re not present in the upper 12 inches. Hyd Within a Wetland?
Ac Re GI Marks: 7 S	ulfidic Odor quic Moisture educing Con leyed or Low The soil mate soils are not Use Vegetation ydrology Pre s Present? Wetland veg	Regime ditions -Chroma Colors rix is relatively dark I present in the samp RMINATION Present? seent?	Organic S Listed on Listed on Other (Ex out not low-chroma, and re ing point. No Yes No Dils are not present in the	Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) edoxymorphic features a Is this Sampling Point sampling point. Wetland	re not present in the upper 12 inches. Hyd Within a Wetland?

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Christensen		Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: Upland Transect ID: Z-L21 Plot ID: Z-L21-WP-01
EGETATION	-	
1. Festuca rubra Herb FAC+ 80 2. Anthoxanthum aristatum Herb UPL 80 3. Crataegus douglasii Tree FAC 50 4. Alnus rubra Tree FAC 30 5. Symphoricarpos albus Shrub FACU 15 6	9	Stratum Indicator %
PROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: Surface (in.) The soil is saturated in the upper 12 inches. Wetland hydrology Remarks:	Water-Stained Lea Local Soil Survey (FAC-Neutral Test Other (Explain in F	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves Data

ofile Desc pth ches) 0-6	vintion:): _Aquandic endoaqualfs		rs		Field Observations Confirm Mapped Type? Yes			ype? Yes
0-6	Matrix Color Horizon (Munsell Moist)			Mottle Co (Munsell M		Mottle Abunda Size/Contrast		Texture, Co Structure, e	oncretions, tc.
	Α	10YR	2/2	None		/		Sandy L	oam
6-18	В	10YR	5/2	10YR	6/6	25% /		Sandy C	lay
	3 Mars also also like and this state and the							-	
			The same and a second	* P =1 1559111					
His His Sul Aqu	ndicators: stosol stic Epipedon lifidic Odor uic Moisture feducing Condi eyed or Low-C	Regime litions Chroma Co	with redoxy	morphic feat	Organic S Listed on Listed on Other (Ex	anic Content in Surf streaking in Sandy S Local Hydric Soils L National Hydric Soil plain in Remarks)	Soils List Is List	Jerry Jerry Tre	oils nt in the sampling point.
LAND									
drophytic	: Vegetation F drology Pres s Present?	Present? ent?	ì	Yes Yes Yes		s this Sampling	Point With	in a Wetla	nd? Yes
drophytic etland Hyd dric Soils	: Vegetation F drology Pres s Present?	ent?	j	Yes Yes	etland hydri	Is this Sampling			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
drophytic etland Hyd dric Soils	: Vegetation F drology Pres s Present?	ent?	j	Yes Yes	etland hydr			ng point is	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

r roject/Site: Gateway Pacific T Applicant/Owner: Pacific I Investigator: E. Christensen,	nternational Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atyp oblem Area?	ical Situa	ation)	Yes	Community ID: Upland Meadows Transect ID: Z-L22 Plot ID: z-L22-UP-01
3. Anthoxanthum odoratum 4. Ranunculus repens 5. Festuca rubra 6 7 *Indicator prefix = assigne Percent of Dominant Species that a (excluding FAC-).	Herb Herb Herb Herb Herb d by delineator, note OBL, FACW or evisited on May 28,	FACU FACU FACH Gefined by F	25 5 80 1 75 	9	Stratum Indicator % assigned by delineator, not defined by FWS. ecies present in May. The January sampling
Recorded Data (Describe in Factorial Photographs — Aerial Photographs — Other — No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: The point was sampled of would not likely meet were	No	(in.) (in.) (in.)	h recen	☐ Water-Stained Lea ☐ Local Soil Survey I ☐ FAC-Neutral Test ☐ Other (Explain in F	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

xonomy ((Subgroup):	Aquandic	endoaqua	lfs				Observations rm Mapped Ty		
ofile Desc opth ches)	cription: Horizon	Matrix C (Munsel		Mottle Co		Mottle Abunda Size/Contrast	ance/	Texture, Co Structure, e		
0-12	Α	10YR	2/2		None	/ N	lone	Loam		
12-16	В	10YR	5/2	10YR	6/6	25% / P	rominent	Sandy L	oam	
										entre l'ame
		. : ===×+×	**********			-/-		-		
	-							4) 2000000		COCKET COLUMNS
His	Indicators: stosol			Ī	_ Concretic			5 550 W =47	1703	
				100		anic Content in Sur	face I av	er in Sandy Se	sile	
Su	stic Epipedor ulfidic Odor			İ	Organic S	Streaking in Sandy	Soils	.,,,	JIIS	
Su Aq Re		Regime ditions	olors		Organic S Listed on _ Listed on	Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List		ЛЗ	
Su Aq Re GI	ulfidic Odor quic Moisture educing Cond eyed or Low	Regime ditions -Chroma Co		out because r	Organic S _ Listed on _ Listed on _ Other (Ex	Streaking in Sandy Local Hydric Soils National Hydric So	Soils List oils List			the soil is not hy
Su Aq Re	ulfidic Odor quic Moisture educing Condeyed or Low The soil is re	Regime ditions -Chroma Co latively low	chroma, t		Organic S _ Listed on _ Listed on _ Other (Ex	Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List oils List			the soil is not hy
Su Aq Re Gl	ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions - Chroma Collatively low	chroma, t	No No No	Organic S _ Listed on _ Listed on _ Other (Ex	Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List iils List t present	in the upper	12 inches,	the soil is not hy
TLANI drophytic etland Hy dric Soils	DETER C Vegetation ydrology Present? Due to the co	Regime ditions - Chroma Collatively low latively low Present? Sent?	ON	No No No ed and suspe	Organic S Listed on Listed on Other (Ex	Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) ic features are not	Soils List pils List t present	in the upper	12 inches,	

r-roject/Site: Gateway Pacific T Applicant/Owner: Pacific I Investigator: M. Gray, E. Chri	International Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atypoblem Area?	oical Situa	ation)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L22 Plot ID: Z-L22-UP-03
Dominant Plant Species			170 180 180 180	The state of the s	Stratum Indicator %
Taraxacum officinale	Herb Herb	FACU	20		
Platitago la iceolata	Hern	FAC	10		
Lotus corniculatus Anthoxanthum odoratum	Herb	FAC	20		
Anthoxanthum odoratum	Herb	FACU	50		
				The state of the s	
(excluding FAC-).	ed by delineator, no are OBL, FACW o	t defined by F	WS.	*Indicator prefix = a	assigned by delineator, not defined by FWS.
*Indicator prefix = assigner recent of Dominant Species that a (excluding FAC-). Remarks: The area was visited one dominant species are OB	ed by delineator, no are OBL, FACW o	t defined by F r FAC gain in May to	WS.	*Indicator prefix = a	essigned by delineator, not defined by FWS.
*Indicator prefix = assigne Percent of Dominant Species that a (excluding FAC-). Remarks: The area was visited one	ed by delineator, no are OBL, FACW o	t defined by F r FAC gain in May to	WS.	*Indicator prefix = a 50% n species identification when the	essigned by delineator, not defined by FWS.
*Indicator prefix = assigner recent of Dominant Species that a (excluding FAC-). Remarks: The area was visited one dominant species are OB	ed by delineator, no are OBL, FACW of the in January and a BL, FACW, or, FAC.	t defined by F r FAC gain in May to	WS.	*Indicator prefix = a 50% In species identification when the ther non-dominant species are non-	e grasses were in bloom. Half of the more likely to be Upland.
*Indicator prefix = assigned ercent of Dominant Species that a (excluding FAC-). The area was visited one dominant species are OB DROLOGY Recorded Data (Describe in Factorial Photographs Aerial Photographs Other No Recorded Data Available ield Observations:	ed by delineator, no are OBL, FACW of the in January and a BL, FACW, or, FAC.	t defined by F r FAC gain in May to Weedy specie	confirms and o	*Indicator prefix = a 50% In species identification when the ther non-dominant species are non-	e grasses were in bloom. Half of the more likely to be Upland. ors: r 12 Inches in Wetlands or more required):
*Indicator prefix = assigned ercent of Dominant Species that a (excluding FAC-). The area was visited one dominant species are OB DROLOGY Recorded Data (Describe in Factorial Photographs Other No Recorded Data Available ield Observations: Depth of Surface Water:	ed by delineator, no are OBL, FACW of the in January and a BL, FACW, or, FAC.	t defined by F r FAC gain in May to Weedy specie	confirms and o	*Indicator prefix = a 50% In species identification when the ther non-dominant species are not non-dom	e grasses were in bloom. Half of the more likely to be Upland. ors: r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches
*Indicator prefix = assigned ercent of Dominant Species that a (excluding FAC-). The area was visited one dominant species are OB DROLOGY Recorded Data (Describe in Factorial Photographs Aerial Photographs Other No Recorded Data Available ield Observations:	ed by delineator, no are OBL, FACW of the in January and a BL, FACW, or, FAC. Remarks):	t defined by F r FAC gain in May to Weedy specie	confirms and o	*Indicator prefix = a 50% In species identification when the ther non-dominant species are non-	e grasses were in bloom. Half of the more likely to be Upland. ors: r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

axonomy (Subgro						m Mapped Ty	pe? Yes
Profile Description Depth Inches) Horizo	Matrix	Color ell Moist)	Mottle Colors (Munsell Moist)	Mottle Abunda Size/Contrast	ince/	Texture, Co Structure, et	
0-16	A 10YF	2/2	None	/ N	one	Loam	
				/			
		riinenki izine	* 7374.01-22.00			**********	
						=	
				/		· · · · · · · · · · · · · · · · · · ·	
idda Oall Iadhaas							
ydric Soil Indicato	15.						
Histosol			Concretions		face Lave	r in Sandv So	and a
Histic Epi	edon		High Organic	c Content in Sur			ils
Sulfidic O	dor		High Organic Organic Stre Listed on Lo	aking in Sandy	Soils		ils
Sulfidic O Aquic Moi Reducing	dor sture Regime Conditions Low-Chroma	Colors	Organic Stre Listed on Lo Listed on Na	c Content in Surf eaking in Sandy : cal Hydric Soils ! tional Hydric Soi in in Remarks)	Soils List		ils
Sulfidic O Aquic Moi Reducing Gleyed or	dor sture Regime Conditions Low-Chroma profile was ho	mogenous ti	Organic Stre Listed on Lo Listed on Na	eaking in Sandy : cal Hydric Soils tional Hydric Soi in in Remarks)	Soils List Is List		
Sulfidic O Aquic Moi Reducing Gleyed or Remarks: The soil	dor sture Regime Conditions Low-Chroma profile was ho	mogenous ti	Organic Stre Listed on Lo Listed on Na Other (Expla	eaking in Sandy : cal Hydric Soils tional Hydric Soi in in Remarks)	Soils List Is List		
Sulfidic O Aquic Moi Reducing Gleyed or	dor sture Regime Conditions Low-Chroma profile was ho FERMINAT ation Present?	mogenous ti	Organic Stre Listed on Lo Listed on Na Other (Expla	eaking in Sandy : cal Hydric Soils tional Hydric Soi in in Remarks)	Soils List Is List	. No signs of	hydric soil were apparent.
Sulfidic O Aquic Mol Reducing Gleyed or Remarks: The soil	dor sture Regime Conditions Low-Chroma profile was hore p	mogenous ti	Organic Stre Listed on Lo Listed on Na Cother (Expla	eaking in Sandy acal Hydric Soils intional Hydric Soils in Remarks) in in Remarks) ill pit in the sam is this Sampling on could not be	Soils List Is List pling plot	. No signs of	hydric soil were apparent.
Sulfidic O Aquic Mol Reducing Gleyed or Remarks: The soil	dor sture Regime Conditions Low-Chroma profile was hore p	mogenous ti	No No No No sent, much of the vegetation	eaking in Sandy acal Hydric Soils intional Hydric Soils in Remarks) in in Remarks) ill pit in the sam is this Sampling on could not be	Soils List Is List pling plot	. No signs of	hydric soil were apparent.
Sulfidic O Aquic Mol Reducing Gleyed or Remarks: The soil	dor sture Regime Conditions Low-Chroma profile was hore p	mogenous ti	No No No No sent, much of the vegetation	eaking in Sandy acal Hydric Soils intional Hydric Soils in Remarks) in in Remarks) ill pit in the sam is this Sampling on could not be	Soils List Is List pling plot	. No signs of	hydric soil were apparent.
Sulfidic O Aquic Mol Reducing Gleyed or Remarks: The soil	dor sture Regime Conditions Low-Chroma profile was hore p	mogenous ti	No No No No sent, much of the vegetation	eaking in Sandy acal Hydric Soils intional Hydric Soils in Remarks) in in Remarks) ill pit in the sam is this Sampling on could not be	Soils List Is List pling plot	. No signs of	hydric soil were apparent.
Sulfidic O Aquic Mol Reducing Gleyed or Remarks: The soil	dor sture Regime Conditions Low-Chroma profile was hore p	mogenous ti	No No No No sent, much of the vegetation	eaking in Sandy acal Hydric Soils intional Hydric Soils in Remarks) in in Remarks) ill pit in the sam is this Sampling on could not be	Soils List Is List pling plot	thin a Wetland	hydric soil were apparent.
Sulfidic O Aquic Moi Reducing Gleyed or Remarks: The soil Hydrophytic Veget Vetland Hydrology fydric Soils Prese Remarks: While fa mowed	profile was hore the conditions and the conditions are the conditions	TION	No No No No sent, much of the vegetation	eaking in Sandy call Hydric Soils itional Hydric Soils itional Hydric Soils in in Remarks) ill pit in the sam is this Sampling on could not be	Soils List Is List Point W	thin a Wetland	hydric soil were apparent.

· roject/Site: Gateway Pacific T Applicant/Owner: Pacific I Investigator: M. Gray, E. Chri	nternational Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atyp oblem Area?	ical Situa	ation)	? No No	Community ID: Upland Meadow Transect ID: Z-L22 Plot ID: z-L22-UP-04
6. Taraxacum officinale 7. Holcus lanatus Hypochaeris radicata *Indicator prefix = assigned Percent of Dominant Species that a (excluding FAC-). Remarks: The sampling plot was re	Herb Herb Herb Herb Herb d by delineator, note OBL, FACW or existed on May 28, nidentified species at the second second species at the second	FACU FACU FACU FACU FACU FACU FACU FACU	15 25 1 1 10 10 10 WS.	1213141516*Indicator prefix = a	
DROLOGY					
Recorded Data (Describe in F	Remarks): uge			Wetland Hydrology Indicato Primary Indicators:	rs:

avanamu	f Phase): _ ^{vv} (Subgroup): _.	Aguandic	endoaqua	lfs			Field	age Class: PO Observations m Mapped Type?	Yes
axonomy	(Subgroup):	Inquariate	Citabaqaa	118)			Comm	iii wapped Type :	
rofile Des epth nches)	cription: Horizon	Matrix C (Munsel		Mottle Co		Mottle Abur Size/Contrast		Texture, Concre Structure, etc.	etions,
0-14	Α	10YR	2/2		None	<i>I</i>	None	Loam	
14-18	В	10YR	5/2	10YR	6/6	30% /	Prominent	Loam	
						/		SHALL MAN HOLDER	· · · · · · · · · · · · · · · · · · ·
	· «========							370	
G emarks: -	quic Moisture educing Conc eyed or Low- Fhe soil is soin nydric.	litions Chroma Co		with redox be	Listed o	n Local Hydric So n National Hydric Explain in Remarks	ils List Soils List s)	resent in the upp	er 12 inches, the soil is
Gi	educing Conc eyed or Low- The soil is so	litions Chroma Co mewhat lov	w chroma	with redox be	Listed o Listed o Other (E	n Local Hydric So n National Hydric Explain in Remarks	ils List Soils List s)	resent in the upp	er 12 inches, the soil is
ETLANI	educing Concepted or Low-	MINATI Present?	w chroma	with redox be	Listed o Listed o Other (E	n Local Hydric So n National Hydric Explain in Remarks thes. Because re	ils List Soils List s) dox is not p	resent in the upport	er 12 inches, the soil is
ETLANI Hydrophytic Vetland Hydric Soll Remarks:	D DETER C Vegetation ydrology Present? Some faculta vegetation is	MINATI Present? sent?	ON es are presable indical	No No No sent, but becator. Wetland	Listed o Listed o Other (E	Is this Sampleta were collected is also present, to	ils List Soils List s) dox is not p ing Point W d mid-winter out areas of	ithin a Wetland?	No ad been mowed, e typically the result of

roject/Site: Gateway Pacific To Applicant/Owner: Pacific Investigator: M. Gray, E. Chris	ternational Termin				Date: 24-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dis Is the area a potential Pro (If needed, explain on a	turbed (Atypoblem Area?	ical Situa	ation)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L22 Plot ID: Z-L22-UP-06
event consisted of two ur	Herb Herb Herb Herb Herb Therb Herb Herb Herb Herb Herb Herb Herb Herb Herb Herb Herb Herb Herb Herb	FACU FACU defined by F	5 5 50	9	Stratum Indicator % assigned by delineator, not defined by FWS. cies present in May. The January sampling
YDROLOGY ☐ Recorded Dala (Describe in F ☐ Stream, Lake, or Tide Gar ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit:	uge Sur Sur	face (in.) face (in.)		Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Oxidized Root Character Stained Lea Local Soil Survey FAC-Neutral Test Other (Explain in F	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

axonomy	(Subgroup):	Aquandic	endoaqua	lfs				l Observations irm Mapped Typ	e?	Yes	
ofile Des pth ches)	cription: Horizon	Matrix C (Munsel		Mottle C		Mottle Abund	dance/	Texture, Cor Structure, etc		ons,	
0-14	Α	10YR	3/2	= VIX.03000000	None	<i>1</i>	None	Loam			50575R2
14-	В	10YR	4/2	5YR	5/8	15% /		Sandy Lo	am		
											W71022
								#1 #3			
His	Indicators: stosol stic Epipedon ulfidic Odor			į	Concreti	ons ganic Content in Si Streaking in Sand	urface Lay	er in Sandy Soil	ls		
Re GI	quic Moisture educing Concepted or Low-	ditions Chroma Co atively low	chroma, t	out because	Listed or Listed or Other (E	n Local Hydric Soil n National Hydric S explain in Remarks thic features are no	s List Soils List)	in the upper 12	2 inch	es, the soil	is not l
Region Glassian Glass	educing Conceyed or Low-	MINATI Present?	chroma, b	No Yes No	Listed or Listed or Other (E	n Local Hydric Soil n National Hydric S explain in Remarks thic features are no	s List coils List) ot present	in the upper 12	1	es, the soil	is not l
TLANI	DETER Vegetation	MINATI Present?	chroma, b	No Yes	Listed or Listed or Other (E	n Local Hydric Soil n National Hydric S explain in Remarks thic features are no	s List coils List) ot present		1		soil

roject/Site: Gateway Pacific T Applicant/Owner: Pacific I Investigator: E. Christensen	nternational Terminals			Date: 27-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atypical Situa oblem Area?	ation)	Yes No No	Community ID: Wetland Transect ID: Z-L22 Plot ID: Z-L22-WP01
3. Anthoxanthum odoratum 4. Festuca rubra 5. Rubus armeniacus 6	Herb FACW NA NI Herb FACU Herb FAC+ Shrub FACU d by delineator, not defined by 8 are OBL, FACW or FAC	80 80 30 30 10	9	Stratum Indicator % Stratum I
Recorded Data (Describe in Figure 2) Recorded Data (Describe in Figure 2) Recorded Data (Describe in Figure 3) Recorded Da)	Water-Stained Lea Local Soil Survey FAC-Neutral Test Other (Explain in F	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves Data

	(Subgroup):	1	30 122 323 323			nfirm Mapped Ty	pe? No
Profile Des Depth inches)	scription: Horizon	Matrix C (Munsel		Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Co Structure, et	
0-8	Α	10YR	2/2	None	/ None	Sandy Lo	oam
8-12	В	10YR	5/3	None	/ None	Sand	
12-18	С	N/A	N/A	None	/ None	Gravel	
		n wasana					
Hi Hi Si	Indicators: istosol istic Epipedor ulfidic Odor quic Moisture educing Con	Regime ditions		Organic Listed o	ions ganic Content in Surface L Streaking in Sandy Soils n Local Hydric Soils List n National Hydric Soils Lis		ils
Remarks:	9911 - 1997 (1997 - 1	-Chroma Co	oil are pre	Other (E	Explain in Remarks)		
ETLAN Hydrophyti Vetland H	No indicators	chroma Co	oil are pre	Other (E	Explain in Remarks)		nd? Yes
ETLAN Hydrophyti Vetland H	D DETER ic Vegetation lydrology Pre ls Present?	chroma Co of hydric s RMINATI Present? sent?	oil are pre	Yes Yes	Explain in Remarks)	Within a Wetlan	Į.
ETLAN Hydrophyti Vetland H	D DETER ic Vegetation lydrology Pre ls Present? The presence	Chroma Co of hydric s cof hydric s control of hydrop	ON Ohytic vege	Yes Yes No etation and wetland hyd	explain in Remarks) oint. Is this Sampling Poin	Within a Wetlan	within a wetland.

roject/Site: Gateway Pacific To Applicant/Owner: Pacific Investigator: M. Gray, E. Chris	nternational Termin				Date: 25-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance: Is the site significantly dis Is the area a potential Pro (If needed, explain on	turbed (Atypoblem Area?	ical Situa	ation)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L25 Plot ID: Z-L25-UP-01
Percent of Dominant Species *Indicator prefix = assigned (excluding FAC-). Remarks: Bare ground covered 30% identified to species became the species of the the species o	Herb Herb Shrub d by delineator, nothing OBL, FACW of the plot. Vege	FAC+ t defined by F	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	9	Stratum Indicator % assigned by delineator, not defined by FWS. animant vegetation (Fescue) could not be t. Species of upland weeds were present.
Recorded Data (Describe in F Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit:	uge	0(in.)		Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2 Oxidized Root Characters Soil Survey FAC-Neutral Test Other (Explain in F	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

	d Phase): _ ^{vv} (Subgroup): ₋			to 2 percent slopes		Field C	ge Class: <u>_</u> bservations n Mapped Type	ooorly drained No	
rofile Des									
epth nches)	Horizon	Matrix C (Munsel		Mottle Colors (Munsell Moist)	Mottle Abundar Size/Contrast	nce/	Texture, Concretions, Structure, etc.		
0-9	Α	10YR	3/3				Silt Loam		
9-18	В	10YR	3/3	7.5YR 4/6	5% / Fa	int	Loam		
		• : *******		-			- 3		
					/		-000000000		- Herry
GI emarks: -	quic Moisture educing Cond leyed or Low- Fhe soil appe that the soil is	litions Chroma Co ars to be c		Listed Listed Other	nic Streaking in Sandy S I on Local Hydric Soils L I on National Hydric Soil (Explain in Remarks)	List Is List	were observe	ed, but it does n	ot appea
GI emarks: ₁ t	educing Concleyed or Low-	ditions Chroma Co ars to be co s hydric.	thurned an	Listed Listed City Other	I on Local Hydric Soils I I on National Hydric Soil (Explain in Remarks)	List Is List	were observe	ed, but it does n	ot appea
ETLANI	educing Condeyed or Low-	chroma Control	churned an	Listed Listed Other	I on Local Hydric Soils I I on National Hydric Soil (Explain in Remarks)	List Is List ic features			ot appea
emarks: - t ETLANI ydrophytic /etland Hydric Soil	D DETER c Vegetation ydrology Pressent?	chroma Control	churned an	Listed Listed Cither Other	I on Local Hydric Soils L I on National Hydric Soil (Explain in Remarks) ne slight redoxymorphi	List Is List ic features	hin a Wetland	? No	ot appea

roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: M. Gray, E. Ch	International Termina				Date: 25-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential P (If needed, explain or	isturbed (Atypi roblem Area?		ation)	? No No	Community ID: PEM Transect ID: Z-L25 Plot ID: Z-L25-WP-01
Rubus spectabilis Alnus rubra Carex obnupta Phalaris arundinacea *Indicator prefix = assign Percent of Dominant Species that (excluding FAC-).	Herb Herb Shrub Shrub Tree Herb Herb ed by delineator, not of	FAC FAC+ FAC OBL FACW defined by F	30 30 10 5 20 20 20 WS.	9	Stratum Indicator % ssigned by delineator, not defined by FWS. point is an unidentified species of Fescue.
PROLOGY Recorded Data (Describe in Stream, Lake, or Tide G. Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water:	auge2	(in.)	4	Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Water-Stained Lea	12 Inches in Wetlands or more required): annels in Upper 12 Inches aves

conomy	(Subgroup):	Aquandic	endoaqual	fs				Observations rm Mapped Type? Yes	
file Des oth ches)	cription: Horizon	Matrix C		Mottle Co		Mottle Abu		Texture, Concretions, Structure, etc.	_
0-8	A	10YR	3/2	10YR	6/1	10% /	Faint	Silt Loam	(2) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3
8-10	В			10YR	5/8	10% /	Faint	organic till layer	
10-18	B2	10YR	4/2	5YR	4/6	25% /	Prominent	Clay Loam	W2-72-
								• *************************************	(motoria)
	stosol			27	-				
Su Ad Re	stic Epipedor ulfidic Odor quic Moisture educing Conc eyed or Low-	Regime litions Chroma Co		morphic feat	Organic _ Listed or _ Listed or _ Other (E	ganic Content in S Streaking in San n Local Hydric So n National Hydric Explain in Remark	dy Soils ils List Soils List s)	er in Sandy Soils he presence of hydric soils.	
LANI	stic Epipedor ulfidic Odor quic Moisture educing Conc eyed or Low-	Regime litions Chroma Co of promine MINATION Present?	on	morphic feat	High Organic Organic Listed or Listed or Other (E	ganic Content in S Streaking in San n Local Hydric So n National Hydric Explain in Remark	dy Soils ils List Soils List s)		
LANI Irophytic tland Hylric Soils	DETER Vegetation vdrology Press Present?	Regime litions Chroma Co of promine MINATIO Present?	ON	No Yes Yes	High Organic Listed on Listed on Other (E	ganic Content in S Streaking in San n Local Hydric So n National Hydric Explain in Remark ow chroma colors	dy Soils ils List Soils List s) indicates t	he presence of hydric soils.	

Applicant/Owner: Pacific International Terminals Investigator: M. Gray, E. Christensen		Date: 25-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L26 Plot ID: Z-L26-UP-02
EGETATION		
Dominant Plant Species 1. Festuca rubra 2. Anthoxanthum aristatum 3. Herb 4. UPL 5. Herb 5. Herb 5. Herb 5. Herb 60 2. Anthoxanthum aristatum 4. Herb 5. Herb 7. Her	9	Stratum Indicator % assigned by delineator, not defined by FWS. kely upland species, but remains
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other	Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper	

ixonomy	(Subgroup):	Aquantuic	chaoaquai	15			Field Conf	rm Mapped Ty	/pe?	No
ofile Des opth ches)	cription: Horizon	Matrix C (Munsel		Mottle Co		Mottle Abund Size/Contrast	ance/	Texture, Co		ns,
0-12	Α	10YR	3/2		None	/ 1	None	Silt Loar	n	
12-18	В	2.5YR	5/2	10YR	5/	5% /		Sandy L	oam	
				* ********		1				
										.n —— ««« « « » « » « » » « » « » » « » «
	O Hamman			-				8 		
Д ні Д ні	Indicators:			<u>.</u>	Concretio	ns				
Ac Re GI GI GI	D DETER	Regime ditions -Chroma Co mewhat low	v chroma v		High Orga Organic S Listed on Listed on Other (Ex	inic Content in Su treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) es. Soil in sampli	/ Soils : List oils List			upland plots.
Ac Re GI	ulfidic Odor quic Moisture educing Con- eyed or Low The soil is so	Regime ditions - Chroma Comewhat low	v chroma v	vith redox be	High Orga Organic S Listed on Listed on Other (Ex	treaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List Dils List	s not as red a	s other	upland plots. No
TLANI drophytic etland Hy dric Soils	DETER Vegetation vdrology Present?	Regime ditions -Chroma Comewhat low RMINATI Present? sent?	ON	No No No	High Orga Organic S Listed on Listed on Other (Ex	Itreaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) es. Soil in sample	g Point W	not as red a	s other	
TLANI drophytic etland Hydric Soils marks:	DETER Vegetation vdrology Present? Although the	Regime ditions -Chroma Comewhat low RMINATI Present? sent?	ON	No No No	High Orga Organic S Listed on Listed on Other (Ex	Itreaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) es. Soil in sample	g Point W	ithin a Wetlar	s other	No
TLANI drophytic etland Hy dric Soils	DETER Vegetation vdrology Present? Although the point is not i	Regime ditions -Chroma Comewhat low mewhat low Present? sent?	ON n was not id.	No No dentified to s	High Orga Organic S Listed on Listed on Other (Ex	Itreaking in Sandy Local Hydric Soils National Hydric So plain in Remarks) es. Soil in sample	g Point W	ithin a Wetlar	s other	No ate that the samplin

l

. roject/Site: Gateway Pacific To Applicant/Owner: Pacific In Investigator: M. Gray, E. Chris	ternational Terminals		Date: 25-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dis Is the area a potential Pro (If needed, explain on r	turbed (Atypical Situation) oblem Area?	Yes No No	Community ID: Upland Meadow Transect ID: Z-L26 Plot ID: Z-L26-UP-03
EGETATION			
	Herb UPL 10 Herb FAC 5	10	ssigned by delineator, not defined by FWS.
(excluding FAC-). Remarks: The sampling plot was rev	risited on May 28, 2007 and the veget dentified species and Phalaris arundina		cies present in May. The January sampling s are hydrophytic, volunteers and emergent
(excluding FAC-). Remarks: The sampling plot was reverent consisted of two units.	risited on May 28, 2007 and the veget dentified species and Phalaris arundina d species.		

Map Unit N Series and	d Phase): _ ^V	/hitehorn si	it loam, 0	to 2 percent s	порез			age Class: _		ly drained	
	(Subgroup):					7	Field	Observations rm Mapped Ty		No	
Profile Des Depth inches)	cription; Horizon	Matrix C		Mottle Col		Mottle Abunda Size/Contrast	ince/	Texture, Co Structure, et		ons,	
0-12	A	10YR	3/2		None		one				
12-	A	10YR	3/2	10YR	5/6						
4-4-500						/					
			120,000,000,000	ly samelence	440-45						
					AKEL (/		* ************************************			
1 - 1	Indicators:			_	1						
	stosol stic Epipedoi	1		-	Concretion						
St	ulfidic Odor					anic Content in Sur	face Lav	er in Sandv So	ils		
Α.		Pooimo		-	High Org	anic Content in Sur Streaking in Sandy	Soils	er in Sandy So	ils		
R	quic Moisture	ditions	Value	Ē	_ High Org _ Organic S _ Listed on _ Listed on	Streaking in Sandy Local Hydric Soils National Hydric So	Soils List	er in Sandy So	ils		
Re G	quic Moisture educing Con- leyed or Low	ditions -Chroma Co	La .	with redox bel	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy Local Hydric Soils	Soils List ils List	***		12 inches,	the soil is
Register G	quic Moisture educing Con- leyed or Low The soil is so	ditions -Chroma Co mewhat low	v chroma v	with redox bel	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List ils List	***		12 inches,	the soil is
emarks:	quic Moisture educing Con- leyed or Low The soil is so hydric.	ditions Chroma Co	v chroma v	with redox bel	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List ils List	***		12 inches,	the soil is
ETLANI	quic Moisture educing Con- leyed or Low The soil is so hydric.	ditions -Chroma Co mewhat low	o N	Yes No	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks)	Soils List ils List	present in the u	upper		the soil is
ETLANI Jydrophytic Vetland Hydric Soil	Quic Moisture educing Con- leyed or Low The soil is so hydric. D DETER C Vegetation ydrology Pre	ditions -Chroma Co mewhat low	o N	Yes	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy Local Hydric Soils National Hydric So plain in Remarks)	Soils List ils List	present in the u	upper	12 inches,	the soil is
ETLANI lydrophytic Vetland Hydric Soil	D DETER C Vegetation ydrology Present?	MINATI Present? sent?	o N	Yes No No	High Org. Organic S Listed on Listed on Other (E)	Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks)	Soils List ils List x is not p	oresent in the o	upper	No	
ETLANI lydrophytic Vetland Hydric Soil	D DETER C Vegetation ydrology Present?	MINATI Present? sent?	o N	Yes No No	High Org. Organic S Listed on Listed on Other (E)	Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) nes. Because redo; Is this Sampling	Soils List ils List x is not p	oresent in the o	upper	No	
ETLANI ydrophytic /etland Hydric Soil	D DETER C Vegetation ydrology Present?	MINATI Present? sent?	o N	Yes No No	High Org. Organic S Listed on Listed on Other (E)	Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) nes. Because redo; Is this Sampling	Soils List ils List x is not p	oresent in the o	upper	No	
ETLANI ydrophytic ydric Soil	D DETER C Vegetation ydrology Present?	MINATI Present? sent?	o N	Yes No No	High Org. Organic S Listed on Listed on Other (E)	Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) nes. Because redo; Is this Sampling	Soils List ils List x is not p	oresent in the o	upper	No	
ETLANI ydrophytic ydric Soil	D DETER C Vegetation ydrology Present?	MINATI Present? sent?	o N	Yes No No	High Org. Organic S Listed on Listed on Other (E)	Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) nes. Because redo; Is this Sampling	Soils List ils List x is not p	oresent in the o	upper	No	
ETLANI lydrophytic Vetland H lydric Soil	D DETER C Vegetation ydrology Present?	MINATI Present? sent?	o N	Yes No No	High Org. Organic S Listed on Listed on Other (E)	Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) nes. Because redo; Is this Sampling	Soils List ils List x is not p	oresent in the o	upper	No	
ETLANI ydrophytic ydric Soil	D DETER C Vegetation ydrology Present?	MINATI Present? sent?	o N	Yes No No	High Org. Organic S Listed on Listed on Other (E)	Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) nes. Because redo; Is this Sampling	Soils List ils List x is not p	resent in the ditaining a western	d?	No	npling poin
ETLANI lydrophytic Vetland Hydric Soil	D DETER Vegetation ydrology Present? The lack of a is not in a w	ditions Chroma Comewhat low MINATI Present? sent? distnict wet etland.	ON	Yes No No logy and hydr	High Organic S Listed on Listed on Other (E)	Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) nes. Because redo; Is this Sampling	Soils List ils List x is not p	oresent in the of the oresent in the of the oresent in the oresent	d?	No hat the san	npling poin

r-roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: M. Gray, E. Ch	International Terminals		Date: 25-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential P (If needed, explain on	sturbed (Atypical Situation) roblem Area?	Yes No No	Community ID: PEM Transect ID: Z-L26 Plot ID: Z-L26-WP-01
EGETATION			
1. Carex obnupta 2. Phalaris arundinacea 3. Ranunculus repens 4. Juncus effusus 5 6 7	ed by delineator, not defined by FWS. are OBL, FACW or FAC	14 15 16	
YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Garan Photographs Other No Recorded Data Available		Wetland Hydrology Indicat Primary Indicators: Inundated Saturated in Upport Water Marks	
Field Observations:		Drift LinesSediment DeposDrainage Pattern	s in Wetlands
Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:	4(in.)0(in.)0(in.)	Secondary Indicators (2 or more required): hannels in Upper 12 Inches eaves / Data t
Remarks: The sampling point is in	undated. Wetland hydrology is present.	M	

axonomy	d Phase): _ ^{vv} (Subgroup):	Aquandic	endoaqua	lfs	Fi	ainage Class:poc ald Observations onfirm Mapped Type?	Yes
a.no. 10111)	(cabgicap).	1.				пити марресттурет	Y Y
rofile Des epth nches)	ecription: Horizon	Matrix C (Munsel	olor I Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concre Structure, etc.	tions,
0-7	A	10YR	3/2	None	/ None	Silt Loam	
7-18	В	10YR	5/2	None	/ None	Sandy Loam	
				200 200 200 200 200 200 200 200 200 200			
		v <u>200</u> 20000		-			
	S BARRAGOOM				/		
2024 1220	Indicators:						
∏ Re	ulfidic Odor quic Moisture educing Cond leyed or Low-	litions Chroma Co		Organic S Listed on Listed on Other (Ex	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List olain in Remarks)	ayer in Sandy Soils	
marks:	quic Moisture educing Conc leyed or Low-	Ilitions Chroma Co of hydric s	oils are pr	Organic S Listed on Listed on Other (Exp	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List		
Remarks:	quic Moisture educing Cond leyed or Low-	MINATIONS MINATION Present?	oils are pr	Organic S Listed on Listed on Other (Ex	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List		Yes
TLANI rdrophytic etland Hydric Soils	DETER C Vegetation ydrology Present?	MINATIONS MINATION Present? Sent?	ON	Yes Yes Yes Are not present, the present.	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) Is this Sampling Point	Within a Wetland?	

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Gray, E. Christensen		Date: 26-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L27 Plot ID: Z-L27-UP-01
EGETATION		
Dominant Plant Species 1. Pteridium aguilinum 2. Alnus rubra 3. Rubus spectabilis 4. Shrub 5. FAC+ 20 *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: Species in the sampling point were primarily facultative, with on was present at 15%. Hydrophytic vegetation is not dominant in the sampling point were primarily facultative, with on was present at 15%. Hydrophytic vegetation is not dominant in the sample of the sampling point were primarily facultative, with on was present at 15%. Hydrophytic vegetation is not dominant in the sample of the s	9	Stratum Indicator % Stratum Indicator % Ssigned by delineator, not defined by FWS. dominant FAC+ species. One FACU species
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: None (in.) Wetland hydrology indicators are not present.	Wetland Hydrology Indicators: Inundated	12 Inches in Wellands or more required): annels in Upper 12 Inches aves Data

axonomy	(Subgroup):	Aquandic end	oaqualfs	5			Observations m Mapped Type? No	
ofile Des epth iches)	cription: Horizon	Matrix Color (Munsell Mo		Mottle Colors (Munsell Moist)	Mottle Abunda Size/Contrast	nce/	Texture, Concretions, Structure, etc.	
0-1	duff		(=10100000	None	/ No	one		
1-16	Α	10YR 3/	3	None	/ No	one		*****
							- 9 94 6	
	725-00-00			V <u>1000-000-000-000-000-000-000</u>			<u> </u>	onnes de la company
dric Soil	Indicators:							
	stosol			Concretic				
	ATT OF THE RESERVED					Name and Courses	- 1- O O-11-	
St	stic Epipedor Ilfidic Odor			High Org	anic Content in Surf Streaking in Sandy S	Soils	er in Sandy Soils	
Su Ad Re	ulfidic Odor quic Moisture educing Conc	Regime litions	i	High Org Organic S Listed on Listed on	Streaking in Sandy S Local Hydric Soils I National Hydric Soi	Soils List	er in Sandy Soils	
Su Ad Re GI	ulfidic Odor quic Moisture educing Conc eyed or Low-	Regime		High Org Organic S Listed on Listed on	Streaking in Sandy S Local Hydric Soils I	Soils List	er in Sandy Soils	
St. Ac. Re. Gl	ulfidic Odor quic Moisture educing Conc eyed or Low-	Regime litions Chroma Colors approximately	1 inch.	High Org Organic S Listed on Listed on	Streaking in Sandy S Local Hydric Soils I National Hydric Soi	Soils List	er in Sandy Soils	
St. Ac. Re GI	ulfidic Odor quic Moisture educing Concept or Low-	Regime ilitions Chroma Colors approximately	1 inch.	High Org Organic S Listed on Listed on Other (E)	Streaking in Sandy S Local Hydric Soils I National Hydric Soi	Soils List	er in Sandy Soils	
St. Ac. Re. Gl	ulfidic Odor quic Moisture educing Conc eyed or Low-	Regime ilitions Chroma Colors approximately MINATION Present?	1 inch.	High Org Organic S Listed on Listed on Other (E)	Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils List Is List	ithin a Wetland?	
TLANI Trdrophytic etland Hyrdric Soils	Ulfidic Odor quic Moisture educing Concept or Low-	Regime litions Chroma Colors ppproximately MINATION Present?	1 inch.	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils List Is List	ithin a Wetland? No	
TLANI TLANI drophytic etland Hydric Soils	Ulfidic Odor quic Moisture educing Concept or Low-	Regime litions Chroma Colors ppproximately MINATION Present?	1 inch.	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils List Is List		
TLANI drophytic etland Hydric Soils	Ulfidic Odor quic Moisture educing Concept or Low-	Regime litions Chroma Colors ppproximately MINATION Present?	1 inch.	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils List Is List	ithin a Wetland? No	
FLANI drophytic etland Hydric Soils	Ulfidic Odor quic Moisture educing Concept or Low-	Regime litions Chroma Colors ppproximately MINATION Present?	1 inch.	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils List Is List	ithin a Wetland? No	
FLANI drophytic etland Hydric Soils	Ulfidic Odor quic Moisture educing Concept or Low-	Regime litions Chroma Colors ppproximately MINATION Present?	1 inch.	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils List Is List	ithin a Wetland? No	
FLANI Transport of the standard Hydric Soils	Ulfidic Odor quic Moisture educing Concept or Low-	Regime litions Chroma Colors ppproximately MINATION Present?	1 inch.	High Org Organic S Listed on Listed on Other (Ex	Streaking in Sandy S Local Hydric Soils I National Hydric Soi plain in Remarks)	Soils List Is List	ithin a Wetland? No	

roject/Site: Gateway Pacific Term Applicant/Owner: Pacific Inter Investigator: M. Gray, E. Christer	national Termina				Date: 26-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances of Is the site significantly disturbed in the area a potential Probability (If needed, explain on revenue of the site of the s	rbed (Atypid lem Area?		ation)	? No No	Community ID: PEM Transect ID: Z-L27 Plot ID: Z-L27-WP-01
EGETATION					
1. Carex obnupta 2. Rubus spectabilis 3. Tellima grandiflora 4. Alnus rubra 5. Populus balsamifera 6	Shrub Herb Tree Tree delineator, not coobt, FACW or f	FAC	40 20 25 30 1	9	*********
PROLOGY Recorded Data (Describe in Rem Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Pepth to Saturated Soil: The presence of two primary hydrology is present in the saturated soil.	1 Surface Surface indicators of wet	ce(in.)	ogy (sit	☐ Water-Stained Lea ☐ Local Soil Survey ☐ FAC-Neutral Test ☐ Other (Explain in F	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

axonomy	d Phase): ^{vv} (Subgroup): _.	Aquandic	endoaqua	lfs			Fiel	nage Class: _ d Observations firm Mapped Ty	pe? Yes	
ofile Des epth nches)	(Autorian)	Matrix C	olor	Mottle Co		Mottle Abu Size/Contras	ndance/	Texture, Co	ncretions,	
0-10	Α	10YR	2/2		None		None	Silt Loan	1	
		10YR	4/3	5YR	5/6		Faint	Silt Loan		
	: 	() 								
		- 		5.544.			Contract.			
		*)(***********								
Ad	ulfidic Odor quic Moisture educing Conc leyed or Low-	litions	olors		Listed or Listed or	Streaking in Sar n Local Hydric So n National Hydric xplain in Remark	dy Soils oils List Soils List			
Ac Ro Gl	quic Moisture educing Cond leyed or Low- Because the	litions Chroma Co sample plo	t was inun		Organic Listed or Listed or Other (E	Streaking in Sar Local Hydric So National Hydric xplain in Remark not possible to	dy Soils bils List Soils List s) thoroughly		oil profile below 10 are present in the s	
AC Reference of the second of	quic Moisture educing Conc leyed or Low- Because the s The low chro	MINATI Present?	t was inun nd redoxyr		Organic Listed or Listed or Other (E	Streaking in Sar Local Hydric So National Hydric splain in Remark not possible to upper 10 inches	dy Soils ils List Soils List s) thoroughly indicate th		oil profile below 10 are present in the s	
TLANI	puic Moisture educing Concleyed or Low- Because the street of the low chropoint. D DETER c Vegetation ydrology Press Present?	MINATI Present?	t was inun nd redoxyr	Yes Yes Yes Yes	Organic Listed or Listed or Other (E	Streaking in Sar Local Hydric So National Hydric Explain in Remark not possible to Ipper 10 inches	dy Soils ils List Soils List s) thoroughly indicate th	Vithin a Wetlan	oil profile below 10 are present in the s	a wetland

roject/Site: Gateway Pacific Applicant/Owner: Pacific nvestigator: D. Halladay					Date: 30-Jan-07 County: Whatcom State: Washington
Do Normal Circumstances the site significantly do site area a potential Foundation (If needed, explain or	listurbed (Atyp Problem Area?	ical Situa	ation)	? Yes No No No	Community ID: Upland Forest Transect ID: Z-L29 Plot ID: Z-L29-UP-01
GETATION					
ominant Plant Species	Stratum	Indicator	_ %	Dominant Plant Species	Stratum Indicator 9/
Rubus armeniacus	Shrub	FACU		Management of the Control of the Con	
Rubus laciniatus	Shrub	FACU+	5		
Polystichum munitum	Herb	FACU	50	11	
Rubus spectabilis	Shrub	FAC+	25		
Alnus rubra	Tree	FAC	30	13	
	Tree	FAC-		14	
		FACU	25	15	
	<u>Herb</u>				
Oemleria cerasiformis	Herb		7.7	16,	
Oemleria cerasiformis *Indicator prefix = assignercent of Dominant Species that	Herb ned by delineator, not	defined by F	7.7	16,	
*Indicator prefix = assignercent of Dominant Species that (excluding FAC-).	Herb ned by delineator, not	defined by F	 WS.	*Indicator prefix = a	essigned by delineator, not defined by FWS.
*Indicator prefix = assignered of Dominant Species that	Herb ned by delineator, not	defined by F	 WS.	*Indicator prefix = a	essigned by delineator, not defined by FWS.
*Indicator prefix = assignercent of Dominant Species that (excluding FAC-).	Herb ned by delineator, not	defined by F	 WS.	*Indicator prefix = a	essigned by delineator, not defined by FWS.
*Indicator prefix = assignercent of Dominant Species that (excluding FAC-). emarks: Species in the sampling	Herb ned by delineator, not	defined by F	 WS.	*Indicator prefix = a	essigned by delineator, not defined by FWS.
*Indicator prefix = assignercent of Dominant Species that excluding FAC-). emarks: Species in the sampling	Herb ned by delineator, not t are OBL, FACW or g point were primarily	defined by F	 WS.	*Indicator prefix = a 40% an 50% of the dominant species	were FAC, FACW or OBL.
*Indicator prefix = assignercent of Dominant Species that excluding FAC-). emarks: Species in the sampling DROLOGY Recorded Data (Describe in	Herb ned by delineator, not t are OBL, FACW or g point were primarily Remarks):	defined by F	 WS.	*Indicator prefix = a 40% an 50% of the dominant species Wetland Hydrology Indicator	ussigned by delineator, not defined by FWS
*Indicator prefix = assignercent of Dominant Species that excluding FAC-). amarks: Species in the sampling DROLOGY Recorded Data (Describe in Stream, Lake, or Tide G	Herb ned by delineator, not t are OBL, FACW or g point were primarily Remarks):	defined by F	 WS.	*Indicator prefix = a 40% an 50% of the dominant species Wetland Hydrology Indicator Primary Indicators:	ussigned by delineator, not defined by FWS
*Indicator prefix = assignated as	Herb ned by delineator, not t are OBL, FACW or g point were primarily Remarks):	defined by F	 WS.	*Indicator prefix = a 40% an 50% of the dominant species Wetland Hydrology Indicator	were FAC, FACW or OBL.
*Indicator prefix = assignercent of Dominant Species that excluding FAC-). DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Golden Aerial Photographs Other	Herb ned by delineator, not t are OBL, FACW or g point were primarily Remarks):	defined by F	 WS.	*Indicator prefix = a 40% 40% wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks	were FAC, FACW or OBL.
*Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation of Dominant Species that excluding FAC-). *Indicator prefix = assignation of Dominant Species in the sampling of Dominant Species in the samplification of Dominant Species in the sampling of Dominant Spec	Herb ned by delineator, not t are OBL, FACW or g point were primarily Remarks):	defined by F	 WS.	*Indicator prefix = a 40% 40% an 50% of the dominant species Wetland Hydrology Indicator Primary Indicators: Inundated ✓ Saturated in Upper Water Marks Drift Lines	were FAC, FACW or OBL.
*Indicator prefix = assignation and second of Dominant Species that excluding FAC-). DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Good Action of Data (Describe in Dominant Species in the sampling in Stream, Lake, or Tide Good Data Photographs Other No Recorded Data Available	Herb ned by delineator, not t are OBL, FACW or g point were primarily Remarks):	defined by F	 WS.	*Indicator prefix = a 40% 40% Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	were FAC, FACW or OBL. 12 Inches in Wetlands
*Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). PROLOGY Recorded Data (Describe in Stream, Lake, or Tide Good Dominant Species in the sampling of the first of the control	Herb ned by delineator, not t are OBL, FACW or g point were primarily Remarks):	r FAC	Less th	*Indicator prefix = a 40% 40% Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2	were FAC, FACW or OBL. 12 Inches in Wetlands or more required):
*Indicator prefix = assignation assignation of Dominant Species that excluding FAC-). Bemarks: Species in the sampling amarks: Species in the sampling amarks	Herb ned by delineator, not t are OBL, FACW or g point were primarily Remarks):	r FAC	Less th	*Indicator prefix = a 40% wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Cha	were FAC, FACW or OBL. 12 Inches in Wetlands or more required): annels in Upper 12 Inches
*Indicator prefix = assignated as	Herb ned by delineator, not t are OBL, FACW or g point were primarily Remarks):	r FAC r facultative.	Less th	*Indicator prefix = a 40% 40% Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2	were FAC, FACW or OBL. 12 Inches in Wetlands or more required): ennels in Upper 12 Inches
*Indicator prefix = assignercent of Dominant Species that (excluding FAC-). emarks: Species in the sampling DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Gold Photographs	Herb med by delineator, not t are OBL, FACW or g point were primarily a Remarks): Sauge	ne (in.)	Less th	*Indicator prefix = a 40% an 50% of the dominant species Wetland Hydrology Indicator Primary Indicators:	rs: 12 Inches in Wetlands or more required): ennels in Upper 12 Inches ensels in Upper 12 Inches

axonomy	(Subgroup):	Aquandic	endoaqual	fs	Conf	d Observations firm Mapped Type? No
rofile Des epth nches)	cription: Horizon	Matrix Co		Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-18	Α	7.5YR	3/2	None	/ None	Silt Loam
					·/	
					/	
		v 			·/	-
						-
⊞н	Indicators: stosol stic Epipedon			Concretion High Orga	nic Content in Surface Lay	ver in Sandy Soils
	ulfidic Odor					
R G	quic Moisture educing Cond leyed or Low-	itions Chroma Co	(CA)(A)	Listed on Listed on Other (Exp	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List Islain in Remarks) C features are not present	, the soil is not hydric.
R G	quic Moisture educing Cond leyed or Low-	itions Chroma Co atively low	chroma, b	Listed on Listed on Other (Exp	Local Hydric Soils List National Hydric Soils List Iolain in Remarks)	, the soil is not hydric.
emarks:	quic Moisture educing Cond leyed or Low- The soil is rela	itions Chroma Co atively low MINATIO	chroma, b	Listed on Listed on Other (Exp	Local Hydric Soils List National Hydric Soils List Iolain in Remarks)	
TLAN /drophyti /etland H /dric Soil	DETERIC Vegetation Fydrology Present?	MINATIO Present? ent?	ON F FAC and	Listed on Listed on Listed on Listed on Listed on Other (Exput because redoximorphic No ?	Local Hydric Soils List National Hydric Soils List Istolain in Remarks) c features are not present Is this Sampling Point W	
TLAN rdrophyti etland H rdric Soil	DETERIC Vegetation Fydrology Present?	MINATIO Present? ent?	ON F FAC and	Listed on Listed	Local Hydric Soils List National Hydric Soils List Istolain in Remarks) c features are not present Is this Sampling Point W	/ithin a Wetland?
TLAN rdrophyti etland H rdric Soil	DETERIC Vegetation Fydrology Present?	MINATIO Present? ent?	ON F FAC and	Listed on Listed	Local Hydric Soils List National Hydric Soils List Istolain in Remarks) c features are not present Is this Sampling Point W	/ithin a Wetland?
TLAN rdrophytietland Hedric Soil	DETERIC Vegetation Fydrology Present?	MINATIO Present? ent?	ON F FAC and	Listed on Listed	Local Hydric Soils List National Hydric Soils List Istolain in Remarks) c features are not present Is this Sampling Point W	/ithin a Wetland?
TLAN drophytietland H	DETERIC Vegetation Fydrology Present? Due to the doof hydric soils	MINATIONS Chroma Co atively low Present? ent? ominance of s, this samp	ON FAC and bling point	No ? No PACU species, the unlike is not within a wetland.	Local Hydric Soils List National Hydric Soils List Islain in Remarks) Is features are not present Is this Sampling Point W	/ithin a Wetland? No

roject/Site: Gateway Pacific Applicant/Owner: Pacific	International Termin				Date: 02-Feb-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential Pr (If needed, explain on	sturbed (Atyr roblem Area?	oical Situa	ation)	? No No	Community ID: Upland Forest Transect ID: Z-L29 Plot ID: Z-L29-UP-02
GETATION					
Dominant Plant Species		Indicator	_ %	Dominant Plant Species	Stratum Indicator %
Thuja plicata Ranunculus acriformis	Tree	EAC	25		
Populus halsamifera	Herb	FACW-	20		
Populus balsamifera Rubus spectabilis	Iree	FAC	25		
Rubus spectabilis Physocarpus capitatus	Shrub	FACH	20		
Polystichum munitum	Herb	FACU-	20		
·					
			and the last of th	14,	
*Indicator prefix = assigne	ed by delineator, no	t defined by F		*Indicator prefix =	assigned by delineator, not defined by FWS.
Percent of Dominant Species that a (excluding FAC-).	are OBL, FACW o	r FAC	WS.	50%	assigned by delineator, not defined by FWS.
ercent of Dominant Species that a (excluding FAC-). temarks: The vegetation in the plo vegetation is present in I	are OBL, FACW o	r FAC	WS.	50%	assigned by delineator, not defined by FWS.
ercent of Dominant Species that a (excluding FAC-). temarks: The vegetation in the plo	are OBL, FACW o	r FAC	WS.	50%	ant vegetation FAC, FACW or OBL. Wetland
ercent of Dominant Species that a (excluding FAC-). emarks: The vegetation in the plo vegetation is present in I DROLOGY Recorded Data (Describe in F	are OBL, FACW on the sample point.	r FAC	WS.	50% h more than 50% of the domination of the dom	ant vegetation FAC, FACW or OBL. Wetland
ercent of Dominant Species that a (excluding FAC-). emarks: The vegetation in the plovegetation is present in I	are OBL, FACW on the sample point.	r FAC	WS.	Wetland Hydrology Indicators:	ant vegetation FAC, FACW or OBL. Wetland
ercent of Dominant Species that a (excluding FAC-). emarks: The vegetation in the plovegetation is present in I DROLOGY Recorded Data (Describe in F Stream, Lake, or Tide Gate of the Company of the	are OBL, FACW on the sample point.	r FAC	WS.	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines	ont vegetation FAC, FACW or OBL. Wetland ors:
ercent of Dominant Species that a excluding FAC-). emarks: The vegetation in the plovegetation is present in I	are OBL, FACW on the sample point.	r FAC	WS.	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns	ent vegetation FAC, FACW or OBL. Wetland ors: or 12 Inches ors in Wetlands
ercent of Dominant Species that a (excluding FAC-). emarks: The vegetation in the plot vegetation is present in I DROLOGY Recorded Data (Describe in Factorial Photographs Other No Recorded Data Available eld Observations: Depth of Surface Water:	are OBL, FACW o ot is primarily facult the sample point. Remarks): auge	r FAC ative and upla	WS.	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2 Oxidized Root Ch Water-Stained Le	ent vegetation FAC, FACW or OBL. Wetland ors: er 12 Inches is in Wetlands or more required): annels in Upper 12 Inches aves
ercent of Dominant Species that a (excluding FAC-). emarks: The vegetation in the plo vegetation is present in I DROLOGY Recorded Data (Describe in F Stream, Lake, or Tide Ga	are OBL, FACW o ot is primarily facult the sample point. Remarks): auge	r FAC ative and upla	WS.	Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2 Oxidized Root Ch	ent vegetation FAC, FACW or OBL. Wetland ors: er 12 Inches is in Wetlands ? or more required): annels in Upper 12 Inches aves Data

axonomy	(Subgroup):	_Aquandic endoaqu	alfs		Field C Confirm	Mapped T	
ofile Des epth iches)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abunda Size/Contrast		Texture, C Structure, e	oncretions,
0-18	Α	10YR 3/2	None	/ None		Sandy Loam	
		* **********	> :	/_		-	· · · · · · · · · · · · · · · · · · ·
				· <u>/</u>		-	
		-:					
dric Soil	Indicators:						
	stosol stic Epipedor		Concretion	100			
- 0					fana I nune	in Condu C	sile.
	ılfidic Odor		High Orga Organic St	nic Content in Surf reaking in Sandy	Soils	in Sandy So	bils
Re GI	ulfidic Odor quic Moisture educing Cond eyed or Low-	Regime ditions Chroma Colors	High Orga Organic St Listed on L Listed on N	nic Content in Suri reaking in Sandy: Local Hydric Soils National Hydric Soi Iain in Remarks)	Soils List Is List		
Ac Re GI	ulfidic Odor quic Moisture educing Conc eyed or Low- The soil matr	Regime ditions Chroma Colors	High Organic St. Listed on Listed on No. Other (Exp.	nic Content in Suri reaking in Sandy: Local Hydric Soils National Hydric Soi Iain in Remarks)	Soils List Is List		
Ac Re GI Marks:	ulfidic Odor quic Moisture educing Conc eyed or Low- The soil matr	Regime ditions Chroma Colors ix is homogenous the	High Organic State on Listed on Listed on Listed on No Company State on No Company Sta	nic Content in Suri reaking in Sandy: Local Hydric Soils National Hydric Soi Iain in Remarks)	Soils List Is List	rdric soil in	the sampling point.
TLANI drophytic etland Hy dric Soils	Ulfidic Odor quic Moisture educing Concept or Low- The soil matr DETER Vegetation vdrology Press Present?	Regime ditions Chroma Colors ix is homogenous the MINATION Present?	High Organ Organic St Listed on L Listed on I Other (Exp aroughout the 18 inch pit. Yes No No	nic Content in Suri reaking in Sandy: .ocal Hydric Soils I National Hydric Soi Ilain in Remarks) There are no indic	Soils List Is List List List List List List List List	rdric soil in	the sampling point.
TLANI drophytic etland Hy dric Soils marks:	DETER Vegetation vdrology Press Present? Wetland vegs sampling poi	Regime ditions Chroma Colors ix is homogenous the MINATION Present? sent?	Yes No No It it is not dominant, and noming from surface flow, following the following from surface flow, following flow flow flow flow flow flow flow flow	nic Content in Suri reaking in Sandy: .ocal Hydric Soils I National Hydric Soi Islain in Remarks) There are no indical Is this Sampling	Soils List Is List List List List List List List List	rdric soil in	the sampling point. No point. Hydrology in the
TLANI drophytic etland Hy dric Soils marks:	DETER Vegetation vdrology Press Present? Wetland vegs sampling poi	Regime ditions Chroma Colors ix is homogenous the dition of the colors	Yes No No It it is not dominant, and noming from surface flow, following the following from surface flow, following flow flow flow flow flow flow flow flow	nic Content in Suri reaking in Sandy: .ocal Hydric Soils I National Hydric Soi Islain in Remarks) There are no indical Is this Sampling	Soils List Is List List List List List List List List	rdric soil in	the sampling point. No point. Hydrology in the
TLANI drophytic etland Hy dric Soils marks:	DETER Vegetation vdrology Press Present? Wetland vegs sampling poi	Regime ditions Chroma Colors ix is homogenous the dition of the colors	Yes No No It it is not dominant, and noming from surface flow, following the following from surface flow, following flow flow flow flow flow flow flow flow	nic Content in Suri reaking in Sandy: .ocal Hydric Soils I National Hydric Soi Islain in Remarks) There are no indical Is this Sampling	Soils List Is List List List List List List List List	rdric soil in	the sampling point. No point. Hydrology in the
TLANI drophytic etland Hydric Soils marks:	DETER Vegetation vdrology Press Present? Wetland vegs sampling poi	Regime ditions Chroma Colors ix is homogenous the dition of the colors	Yes No No It it is not dominant, and noming from surface flow, following the following from surface flow, following flow flow flow flow flow flow flow flow	nic Content in Suri reaking in Sandy: .ocal Hydric Soils I National Hydric Soi Islain in Remarks) There are no indical Is this Sampling	Soils List Is List List List List List List List List	rdric soil in	the sampling point. No point. Hydrology in the
TLANI drophytic etland Hy dric Soils marks:	DETER Vegetation vdrology Press Present? Wetland vegsampling poi	Regime ditions Chroma Colors ix is homogenous the sampling point is sampling point is displayed.	Yes No No It it is not dominant, and noming from surface flow, following the following from surface flow, following flow flow flow flow flow flow flow flow	nic Content in Suri reaking in Sandy: .ocal Hydric Soils National Hydric Soi Islain in Remarks) There are no indical Is this Sampling O obligate species Is owing a substanti	Soils List Is List Point With occur in the	in a Wetlar ne sampling riod. The s	the sampling point. No point. Hydrology in the soils show no hydric

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Gray, E. Christensen		Date: 02-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PFO Transect ID: Z-L29 Plot ID: Z-L29-WP-01
EGETATION		
Cominant Plant Species 1. Carex obnupta 2. Carex hoodii 3. Polystichum munitum 4. Herb 5. FAC 4. Alnus rubra 5. Rubus spectabilis 6. Shrub 7. *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: The dominance of the obligate species (Carex obnupta) and oth	9	Stratum Indicator % assigned by delineator, not defined by FWS. and vegetation is present.
DROLOGY		

axonomy	(Subgroup):	Aquandic endoaqua	lfs		d Observations firm Mapped Type	? Yes
rofile Des epth nches)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Conc Structure, etc.	retions,
0-3	A	10YR 3/3	None	/ None	Silt Loam	
				<u>!</u>		
	-					
<u> </u>	Indicators: stosol stic Epipedon	Y	Concretio	ons		
Ac Rr G	Because the solot was local	ditions Chroma Colors sample plot was inun	Organic S Listed on Listed on Other (Ex	anic Content in Surface Lay Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) not possible to thoroughly urrounding area, it was no	evaluate the soil	profile. Even though the place of the evaluation.
emarks: { CTLANI ydrophytic fetland Hy	quic Moisture educing Conc eyed or Low- Because the s plot was local	ditions Chroma Colors sample plot was inunted in a relatively dry MINATION Present? sent?	Organic S Listed on Listed on Other (Ex	anic Content in Surface La Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	evaluate the soil t possible to comp	profile. Even though the plete the evaluation.
ACRE RICE GIOLENIA GI	DETER C Vegetation ydrology Present?	ditions Chroma Colors Sample plot was inunted in a relatively dry MINATION Present? sent?	Organic S Listed on Listed on Other (Ex dated with water, it was area compared to the su Yes Yes Yes	anic Content in Surface Lastreaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) not possible to thoroughly urrounding area, it was not so the Sampling Point Ver indicate that the sampling er indicate that the sampling the Street Street Lastream Point Ver indicate that the sampling Point Ver indicate the sampling Point Ver indic	evaluate the soil t possible to comp	Yes
TLANI drophytic etland Hydric Soils	DETER Vegetation vdrology Presence Presence Wetland was	ditions Chroma Colors Sample plot was inunted in a relatively dry MINATION Present? Sent? e of hydrophytic vege difficult to evaluate in the colors of	Yes	anic Content in Surface Lastreaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) not possible to thoroughly urrounding area, it was not so the Sampling Point Ver indicate that the sampling er indicate that the sampling the Street Street Lastream Point Ver indicate that the sampling Point Ver indicate the sampling Point Ver indic	evaluate the soil t possible to comp	Yes a wetland. The soil in the

roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: D. Halladay, E.	Terminal International Terminals Christensen		Date: 30-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential P (If needed, explain on	isturbed (Atypical Situation) roblem Area?	Yes No No	Community ID: Upland Forest Transect ID: Z-L30 Plot ID: Z-L30-UP-01
*Indicator prefix = assignment of Dominant Species that (excluding FAC-).	Tree FAC 95 Tree FACU- 15	9	assigned by delineator, not defined by FWS.
PROLOGY Recorded Data (Describe in		Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposit Drainage Patterns Secondary Indicators (2 Oxidized Root Ch Water-Stained Le Local Soil Survey FAC-Neutral Test Other (Explain in	er 12 Inches ts s in Wellands 2 or more required): nannels in Upper 12 Inches naves Data

xonomy	(Subgroup):	Entic hapl	oxerolls				l Observations irm Mapped Ty	pe? Yes	
ofile Des opth ches)	cription: Horizon	Matrix C		Mottle Colors (Munsell Moist)	Mottle Abur Size/Contrast		Texture, Co Structure, e		
0-8	Α	7.5YR	2.5/1	None		None	Sandy L	 oam	
8-18	В	7.5YR	3/4	None	<u>i</u>	None	Silt Loan		
		4 2007-01-1		13	/			*********	
	· Santania	**********			/	*******			
					/		TT.		
fric Soil	Indicators:								
	stosol			Concretions					
Hi St Ac Ri G marks:	stosol stic Epipedon ulfidic Odor quic Moisture educing Cond leyed or Low- The soil is rel not present a	Regime litions Chroma Co atively low	chroma in	Organic Str. Listed on No. Listed on No. Other (Explain	ic Content in S eaking in Sand ocal Hydric Sol ational Hydric ain in Remarks	ly Soils Is List Soils List	er in Sandy So		features are
Hi Si Ax Rr G marks:	stic Epipedon ulfidic Odor quic Moisture educing Conc leyed or Low-	Regime litions Chroma Co atively low nd the soil	chroma in is not hydr	High Organic Str. Listed on Letted on No. Other (Explication)	ic Content in S eaking in Sand ocal Hydric Sol ational Hydric ain in Remarks	ly Soils Is List Soils List	e en		features are
Hi Si Ak	stic Epipedon ulfidic Odor quic Moisture educing Conc leyed or Low-	Regime litions Chroma Control of the soil MINATI	chroma in is not hydr	High Organic Str. Listed on Letted on No. Other (Explication)	ic Content in Seaking in Sand call Hydric Solational Hydric Solational Hydric Solational Hydric Solational Hydric Solational In Remarks	ly Soils is List Soils List i) throughou	e en	Redoximorphic	features are
TLAN	stic Epipedon ulfidic Odor quic Moisture educing Conc leyed or Low- The soil is rel not present a D DETER c Vegetation ydrology Pres s Present?	Regime litions Chroma Control of the soil MINATI Present?	chroma in is not hydr	High Organic Str. Listed on Le Listed on No No No	ic Content in Seaking in Sandocal Hydric Solational Hydric Solational Hydric Solational Hydric Solational Hydric Solational Consistent Sandocal Solation Seamon Sea	ly Soils is List Soils List i) throughou	it the profile.	Redoximorphic	
TLANI drophytietland H dric Soil	stic Epipedon ulfidic Odor quic Moisture educing Conc leyed or Low- The soil is rel not present a D DETER c Vegetation ydrology Pres s Present? The absence	Regime litions Chroma Control of the soil MINATI Present?	chroma in is not hydr	High Organic Str. Listed on Lotted on No. Control of the Upper 8 inches but is ric. No. No. No.	ic Content in Seaking in Sandocal Hydric Solational Hydric Solational Hydric Solational Hydric Solational Hydric Solational Consistent Sandocal Solation Seamon Sea	ly Soils is List Soils List i) throughou	It the profile.	Redoximorphic	within a

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Applicant/Owner: Pacific Investigator: D. Halladay, E.					Date: 31-Jan-07 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential Pr (If needed, explain on	isturbed (Atyp roblem Area?	ical Situa	ation)	Yes No No	Community ID: PFO Transect ID: Z-L30 Plot ID: Z-L30-WP-01
EGETATION				ese months	
Dominant Plant Species		Indicator		Dominant Plant Species	Stratum Indicator %
Spiraea douglasii Soliu kuida					
2. Salix lucida					
3. Carex obnupta Rosa nutkana	Herb	OBL	75		
4,	Shrub	<u>FAC</u>	40		
5. Populus balsamifera	Tree	- FAC	20		
6. Alnus rubra		FAC	2577	The Control of the Co	
7					
*Indicator prefix = assigne					assigned by delineator, not defined by FWS.
Percent of Dominant Species that (excluding FAC-).	are OBL, FACW or	FAC		83%	
(excluding FAC-). Remarks: The presence of a domir is present. Typha latifol	nant obligate specie	s and that 83	% of th wetlan	e species in the plot are OBL, FA	CW or FAC indicate that wetland vegetation
(excluding FAC-). Remarks: The presence of a domir is present. Typha latifol	nant obligate specie	s and that 83	% of th wetlan	e species in the plot are OBL, FA	CW or FAC indicate that wetland vegetation
Remarks: The presence of a domir is present. Typha latifol YDROLOGY Recorded Data (Describe in the second of the presence of a domir is present. Typha latifol	nant obligate specie: lia is prevalent in the Remarks):	s and that 83	% of th wetlan	e species in the plot are OBL, FA d area. Wetland Hydrology Indicato	
(excluding FAC-). Remarks: The presence of a domir is present. Typha latifol /DROLOGY Recorded Data (Describe in the present). Typha latifol	nant obligate specie: lia is prevalent in the Remarks):	s and that 83	% of th wetlan	e species in the plot are OBL, FA d area. Wetland Hydrology Indicato Primary Indicators:	
(excluding FAC-). Remarks: The presence of a domir is present. Typha latifol /DROLOGY Recorded Data (Describe in the second of the second o	nant obligate specie: lia is prevalent in the Remarks):	s and that 83	% of th wetlan	e species in the plot are OBL, FA d area. Wetland Hydrology Indicato	rs:
(excluding FAC-). Remarks: The presence of a domir is present. Typha latifol /DROLOGY Recorded Data (Describe in I Stream, Lake, or Tide Ga Aerial Photographs Other	nant obligate specie: lia is prevalent in the Remarks):	s and that 83	% of th wetland	e species in the plot are OBL, FA d area. Wetland Hydrology Indicato Primary Indicators:	rs:
YDROLOGY Recorded Data (Describe in the Stream, Lake, or Tide Galler, Aerial Photographs Other No Recorded Data Available	nant obligate specie: lia is prevalent in the Remarks):	s and that 83	% of th wetlan	wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	r 12 Inches s in Wetlands
(excluding FAC-). Remarks: The presence of a domir is present. Typha latifol ✓ DROLOGY — Recorded Data (Describe in the present of the pr	nant obligate specie: lia is prevalent in the Remarks): auge	s and that 83	wetlan	wetland Hydrology Indicato Primary Indicators: Inundated Value Marks Drift Lines Drainage Patterns Secondary Indicators (2 Coxidized Root Cha	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches
YDROLOGY Recorded Data (Describe in Inc.) Stream, Lake, or Tide Garan Other Volume No Recorded Data Available Field Observations:	nant obligate specie: lia is prevalent in the Remarks): auge	s and that 83	wetlan	wetland Hydrology Indicato Primary Indicators: Inundated Valurated in Upper Water Marks Drift Lines Drainage Patterns Secondary Indicators (2	r 12 Inches s in Wetlands or more required): ennels in Upper 12 Inches

Profile Des	cription:		2001	H. W. O. J.	- Language Value of the Control of the		
Depth inches)	Horizon	Matrix C (Munsel		Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.	
0-3	0	10YR	2/1	None	/ None	organic material	
3-15	A			None	/ None	gravel	
					<i>r</i>		
= 7	Indicators:			Concretion	18		
✓ Hi	stic Epipedor	1			nic Content in Surface La	war in Sandy Soile	
Re Gl	ulfidic Odor quic Moisture educing Cond eyed or Low- The soil profi Sulfidic odor	ditions Chroma Co le was not e	completed	Organic St Listed on L Listed on N Other (Exp	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List Ilain in Remarks) Duntered at 3 inches and	remained throughout the rest of the pit.	
emarks:	quic Moisture educing Conc eyed or Low- The soil profi Sulfidic odor	ditions Chroma Co le was not o was prevale	completed ent at the s	Drganic St Listed on L Listed on N Other (Exp because gravel was encosampling point. The plot	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List Ilain in Remarks) Duntered at 3 inches and	remained throughout the rest of the pit.	
emarks:	quic Moisture educing Conc eyed or Low- The soil profi Sulfidic odor	ditions Chroma Co le was not o was prevale MINATIO Present?	completed ent at the s	Organic St Listed on L Listed on N Other (Exp	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List Ilain in Remarks) Duntered at 3 inches and	remained throughout the rest of the pit. f the road.	
ETLANI ydrophytic /etland Hydric Soils	DETER Vegetation vdrology Present?	MINATIONS MINATION Present? a soil profi	completed ent at the s	Drganic St Listed on I Listed on I Other (Exp because gravel was enco sampling point. The plot	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List National Hydric Soils List Is plain in Remarks) ountered at 3 inches and is located 10 feet east o Is this Sampling Point	remained throughout the rest of the pit. f the road.	
emarks: -	DETER Vegetation vdrology Present?	MINATIONS MINATION Present? a soil profi	completed ent at the s	Organic St Listed on I Listed on I Other (Exp because gravel was enco sampling point. The plot Yes Yes Yes Yes	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List National Hydric Soils List Is plain in Remarks) ountered at 3 inches and is located 10 feet east o Is this Sampling Point	remained throughout the rest of the pit. f the road. Within a Wetland?	
emarks: -	DETER Vegetation vdrology Press Present? Even though	MINATIONS MINATION Present? Sent? a soil profitology indicates	ON Second of the second of th	Organic St Listed on I Listed on I Other (Exp because gravel was enco sampling point. The plot Yes Yes Yes Yes	treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List National Hydric Soils List Is plain in Remarks) ountered at 3 inches and is located 10 feet east o Is this Sampling Point	remained throughout the rest of the pit. f the road. Within a Wetland?	

roject/Site: Gateway Pacific Te Applicant/Owner: Pacific Int Investigator: J. Rock, E. Christ	ternational Terminals		Date: 03-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dist Is the area a potential Pro (If needed, explain on re	Yes No No	Community ID: PFO Transect ID: Z-L31 Plot ID: Z-L31-WP-01	
EGETATION			
Percent of Dominant Species that are (excluding FAC-). Remarks: 100% of the dominant spe	Shrub FAC+ 50 Shrub FACW 50 Tree FAC 75 Tree FAC 25 by delineator, not defined by FWS.	9	assigned by delineator, not defined by FWS.
Recorded Data (Describe in Re Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: The sampling point is inunceed.		☐ Water-Stained Lea ☐ Local Soil Survey I ☐ FAC-Neutral Test ☐ Other (Explain in F	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves Data Remarks)

	(Subgroup):	Aquantic	endoaquai	is .			Conf	irm Mapped Type? Yes
ofile Des pth ches)	cription: Horizon	Matrix C		Mottle Co		Mottle Abur Size/Contrast		Texture, Concretions, Structure, etc.
0-8	Α	10YR	2/1		None		None	Loam
8-16	В	10YR	6/1	10YR	5/6	25% /	Distinct	Clay Loam
Arms and	-							
~		+						
Дн	Indicators: stosol			Ē	1	one		
St Ad Re GI	stic Epipedor Ilfidic Odor Juic Moisture Educing Conc eyed or Low-	Regime litions Chroma Co	E39939-E	hic features	Organic Listed or Listed or Other (E	anic Content in S Streaking in Sand I Local Hydric So I National Hydric Xplain in Remarks	ly Soils Is List Soils List ()	rer in Sandy Soils Varic soils are present in the sampling poin
St. Ac. Reg. Gl	Ilfidic Odor Juic Moisture Educing Conc Eyed or Low	Regime littons Chroma Co color and re	edoxymorpi ON	hic features /es /es	High Org Organic Listed or Listed or Other (E	eanic Content in S Streaking in Sand Local Hydric So In National Hydric So Splain in Remarks	ly Soils Is List Soils List ()	
TLANII drophytic dric Soils marks:	DETER Vegetation drology Present?	Regime litions Chroma Color and recolor an	edoxymorpi ON	/es /es /es	High Org Organic Listed or Listed or Other (E	eanic Content in S Streaking in Sand Local Hydric So n National Hydric So polain in Remarks r 12 inches indic	ly Soils lis List Soils List) ate that hy	dric soils are present in the sampling poi
LANE lrophytic tland Hy lric Soils	DETER Vegetation drology Present? Based on the	Regime litions Chroma Color and recolor an	edoxymorpi ON	/es /es /es	High Org Organic Listed or Listed or Other (E	eanic Content in S Streaking in Sand Local Hydric So In National Hydric So In National Hydric So Explain in Remarks or 12 inches indic	ly Soils lis List Soils List) ate that hy	vdric soils are present in the sampling point for the sampling point

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Christensen		Date: 03-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes	Community ID: Upland Forest Transect ID: Z-L33 Plot ID: Z-L33-UP-01
/EGETATION		
1. Rubus ursinus 2. Phalaris arundinacea 3. Rosa nutkana 4. Oemleria cerasiformis 5. Populus balsamifera 6. Alnus rubra 7. Tree *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 67% of the dominant species are FAC or FACW. Hydrophytic vecerasiformis) are also dominant.	9	Stratum Indicator % ssigned by delineator, not defined by FWS. species (Rubus ursinus and Oemleria
□ Recorded Data (Describe in Remarks): □ Stream, Lake, or Tide Gauge □ Aerial Photographs □ Other □ No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: 17 (in.) Depth to Saturated Soil: 16 (in.) Wetland hydrology indicators are not present.	Welland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns is Secondary Indicators (2 of Oxidized Root Chate Water-Stained Learn Local Soil Survey Description of the Capital Control of the Capital Control of the Capital Control of the Capital Capit	12 Inches in Wetlands or more required): nnels in Upper 12 Inches ves

xonomy	(Subgroup):	Typic haplorthods	3		ld Observations ofirm Mapped Type? Yes	
ofile Des	scription;	Matrix Color	Mottle Colors	Mottle Abundance/	Texture, Concretions,	
	Horizon	(Munsell Moist)	(Munsell Moist)	Size/Contrast	Structure, etc.	
0-18	- <u>- </u>	10YR 3/2	None	/ None	Loam	
24-1170	-				***************************************	
				- /	_	
fric Soil	Indicators:					
Hi	stosol stic Epipedor		Concretio			
Re Gl	Soils are hom	Regime ditions •Chroma Colors nogenous througho	Organic S Listed on Listed on Other (Ex	inic Content in Surface La streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	yer in Sandy Soils Decause redoximorphic features are not	
marks: ¿	quic Moisture educing Conc eyed or Low Soils are hom oresent in the	Regime ditions -Chroma Colors	Organic S Listed on Listed on Other (Ex	Itreaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	99 186	
Regionarks: ¿	quic Moisture educing Cond eyed or Low Soils are hom present in the	Regime ditions - Chroma Colors	Organic S Listed on Listed on Other (Ex	Itreaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	pecause redoximorphic features are not	
Regional Region of the Color of	DETER Vegetation vdrology Pressent?	Regime ditions -Chroma Colors -Chroma Colors	Organic S Listed on Listed on Other (Exp ut the profile. The soil is re the soil is not hydric. Yes No No	Ireaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) latively low chroma, but the solution of the second sec	pecause redoximorphic features are not	
Regional Region of the Color of	DETER Vegetation vdrology Pressent?	Regime ditions -Chroma Colors -Chroma Colors	Organic S Listed on Listed on Other (Exp ut the profile. The soil is re the soil is not hydric. Yes No No	Ireaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) latively low chroma, but the solution of the second sec	Decause redoximorphic features are not Within a Wetland?	
Regional Region of the Color of	DETER Vegetation vdrology Pressent?	Regime ditions -Chroma Colors -Chroma Colors	Organic S Listed on Listed on Other (Exp ut the profile. The soil is re the soil is not hydric. Yes No No	Ireaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks) latively low chroma, but the solution of the second sec	Decause redoximorphic features are not Within a Wetland?	

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Applicant/Owner: _Pacific Terminal	Date: 06-Feb-07 County: Whatcom State: Washington	
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PFO Transect ID: Z-L34 Plot ID: Z-L34-WP-01

VEGETATION

Dominant Plant SpeciesStratumIndicator%1. Acer circinatumTreeFAC-752. Alnus rubraTreeFAC253. Rubus spectabilisShrubFAC+54	Dominant Plant Species Stratum Indicator % 9
*Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 50% of the dominant species are FAC. Hydrophytic regetation in	*Indicator prefix = assigned by delineator, not defined by FWS. 50%
Remarks: 50% of the dominant species are FAC. Hydrophytic vegetation is	s present.

HYDROLOGY

Recorded Data (Describe in Ren Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available		Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations:		Sediment DepositsDrainage Patterns in Wetlands
Depth of Surface Water:	3(in.)	Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves
Depth to Free Water in Pit:	Surface(in.)	Local Soil Survey Data FAC-Neutral Test
Depth to Saturated Soil:	Surface(in.)	Other (Explain in Remarks)
Remarks:		

axonomy	lame d Phase): _ ^E (Subgroup):						Drainage Class: Field Observation Confirm Mapped	กร	No	1
2015 171								198,000		
offie Des opth ches)	cription: Horizon	Matrix C (Munsel		Mottle Co		Mottle Abundand Size/Contrast		Texture, Concretions, Structure, etc.		li di
0-6	A	10YR	3/1		None	/ None	e	W-72-97-07-		
6-16	В	10YR	6/2	10YR	5/8	40% /				-
	-							2		
	-									
					orlinave savi		SECTION SECTION			_
Irla Call	Indicators:									
Дн	stosol			Ţ	Concretic					
St	stic Epipedor ulfidic Odor quic Moisture			1	Organic :	anic Content in Surfac Streaking in Sandy Soi	Is	Soils		
	aic Moistale	Regime		-	Listed on	Local Hydric Soils Lis	t			
R	educing Cond	ditions Chroma Co	lors	4-	_ Listed on	National Hydric Soils	List			
⊟ Re	eyed or Low	-Chroma Co		ohic features	Listed on Other (Ex	n National Hydric Soils explain in Remarks) er 12 inches indicate t		re pres	ent in the samplin	ig po
TLANI	DETER	Chroma Co color and r MINATIO Present?	edoxymorp	Yes	Listed on Other (Ex	xplain in Remarks)		re prese	ent in the samplin	g po
Regional Region of Grant Region of Grant Region of Grant Region of Grant Region of Reg	DETER	Chroma Co color and r MINATIO Present?	edoxymorp		Listed on Other (Ex	xplain in Remarks)	hat hydric soils a		ent in the samplin	g po
Regionarks:	DETER Vegetation drology Pres	MINATION Present?	edoxymorp DN	fes fes fes	Listed on Other (E:	xplain in Remarks) er 12 inches indicate t	hat hydric soils a	and?	Yes	
LANI rophytic	DETER Vegetation drology Pres	MINATION Present?	edoxymorp DN	fes fes fes	Listed on Other (E:	xplain in Remarks) er 12 inches indicate t	oint Within a Wet	and? npling p	Yes point is within a we	etlan
TLANI Prophytical land Hyric Soils	DETER Vegetation drology Pres	MINATION Present?	ON hytic veget	Yes Yes Yes ration, wetlar	Listed on Other (E:	xplain in Remarks) er 12 inches indicate t	oint Within a Wet	and? npling p	Yes	etlan

r roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Gray, E. Christensen, D. Halladay Do Normal Circumstances exist on the site?	Date: 06-Feb-07 County: Whatcom State: Washington Yes Community ID: PSS
Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Seriment, 121
/EGETATION	
Dominant Plant Species 1. Oemleria cerasiformis 2. Lonicera involucrata 3. Rubus spectabilis 4. Ranunculus repens 5. Rubus laciniatus 6. Alnus rubra 7. Tree *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 100% of the dominant species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW. Hydrogether than the species are FAC, FAC+, or FACW.	Dominant Plant Species 9
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Surface (in.) Pepth to Saturated Soil: Surface and inundated. W	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

Гахопоту	(Subgroup):	Typic hap	lorthods				Field	nage Class: moderately well d Observations No No
rofile Des epth nches)	cription; Horizon	Matrix C		Mottle C		Mottle Abunda Size/Contrast		Texture, Concretions, Structure, etc.
0-8	Α	10YR	3/2	-	None	/ N	lone	Silt Loam
8-16	В	10YR	4/2	10YR	6/8	40% /	1,-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Silt Loam
		A :				/		***************************************
	**********			-		i /	X = VIII	
		a amunocos	-	-		' /		
ydric Soil I	ndicators:							
Su	tic Epipedon Ifidic Odor			1	Organic S	anic Content in Sur Streaking in Sandy	Soils	ver in Sandy Soils
emarks: T	lfidic Odor uic Moisture ducing Cond eyed or Low- otal depth o	Regime litions Chroma Co f soil pit is nydric soils	estimated are preser	due to inund nt in the sam	High Org. Organic s Listed on Listed on Other (Ex	anic Content in Sur Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks)	Soils List ils List	rer in Sandy Soils morphic features in the upper 12 inches
emarks: TLANE	Ifidic Odor ulc Moisture ducing Cond eyed or Low- otal depth o idicate that i	Regime litions Chroma Conference Chroma Conference Chroma Conference Chroma Conference Chroma Conference Chroma Ch	estimated are preser	due to inund nt in the sam Yes Yes Yes	High Org. Organic s Listed on Listed on Other (Ex	anic Content in Sur Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks)	Soils List ils List	
emarks: TLANE TLANE Ydrophytic Yetland Hy ydric Soils emarks:	Ifidic Odor ulc Moisture ducing Cond eyed or Low- otal depth o ndicate that I Vegetation I drology Pres Present?	Regime litions Chroma Conference Chroma C	estimated are preser	Yes Yes Yes	High Org. Organic S Listed on Listed on Other (E)	anic Content in Sur Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) chroma color and Is this Sampling	Soils List ils List I redoxyr	morphic features in the upper 12 inches
emarks: TLANE TLANE Ydrophytic Yetland Hy ydric Soils emarks:	Ifidic Odor ulc Moisture ducing Cond eyed or Low- otal depth o ndicate that I Vegetation I drology Pres Present?	Regime litions Chroma Conference Chroma C	estimated are preser	Yes Yes Yes	High Org. Organic S Listed on Listed on Other (E)	anic Content in Sur Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) chroma color and Is this Sampling	Soils List ils List I redoxyr	morphic features in the upper 12 inches /ithin a Wetland? Yes tion, and presence of hydric soils indicate
emarks: TLANE TLANE ydrophytic fetland Hy ydric Soils emarks:	Ifidic Odor ulc Moisture ducing Cond eyed or Low- otal depth o ndicate that I Vegetation I drology Pres Present?	Regime litions Chroma Conference Chroma	estimated are preser	Yes Yes Yes Yes wetland.	High Org. Organic S Listed on Listed on Other (E)	anic Content in Sur Streaking in Sandy Local Hydric Soils National Hydric Soi plain in Remarks) chroma color and Is this Sampling	Soils List ils List I redoxyr	morphic features in the upper 12 inches

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Gray, E. Christensen, D. Halladay		Date: 06-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PSS Transect ID: Z-L37 Plot ID: Z-L37-UP-01

VEGETATION

Dominant Plant Species 1. Phalaris arundinacea 2. Rubus armeniacus 3. Symphoricarpos albus 4. Rosa nutkana 5	Stratum Herb Shrub Shrub Shrub	Indicator FACW FACU FACU FAC	% 100 25 25 5	Dominant Plant Species Stratum Indicator % 9.
Percent of Dominant Species that are OE (excluding FAC-).	L, FACW o	r FAC		33%
Remarks: Only 33% of the dominant spec point and wetland vegetation in	ies are hydr the samplin	ophytic. Othe	er domir : indicitiv	inant species are FACU. Wetland vegetation is not dominant in the sampling ive of a wetland.

HYDROLOGY

Recorded Data (Describe in Rema Stream, Lake, or Tide Gauge Aerial Photographs Other V. No Recorded Data Available	arks):	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations:	·	Sediment Deposits Drainage Patterns in Wellands
Depth of Surface Water:	None(in.)	Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves
Depth to Free Water in Pit:	None (in.)	Local Soil Survey Data FAC-Neutral Test
Depth to Saturated Soil:	9(in.)	Other (Explain in Remarks)

Гахопоту	(Subgroup): ₋	Typic hap	lorthods			d Observations firm Mapped Type? Yes
Profile Des Depth inches)	cription: Horizon	Matrix C		Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-10	Α	10YR	3/3	None	/ None	Loam
10-16	В	7.5YR	3/3	None	/ None	Loam
	В	7.5YR	2.5/2	None	/ None	Loam
		r transport				
	Indicators:					
His Su Ad Re Gl	stosol stic Epipedon lifidic Odor juic Moisture sducing Cond eyed or Low- lydric soil inc	Regime itions Chroma Co dicators are	e not prese	Organic S Listed on Listed on Other (Exp	ns anic Content in Surface Lay streaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	ver in Sandy Soils
ETLANI Hydrophytic Vetland Hy	stic Epipedon Ilfidic Odor Juic Moisture Educing Cond Eyed or Low-	Regime iitions Chroma Codicators are	on	High Orga Organic S Listed on Listed on Other (Exp	inic Content in Surface Lay streaking in Sandy Solls Local Hydric Solls List National Hydric Solls List	
ETLANI Idemarks: p	DETER Vegetation I drology Prese	Regime itions Chroma Codicators are dicators are minare.	ON Ce of two F	High Orga Organic S Listed on Listed on Other (Exp nt.	Inic Content in Surface Lay Itreaking in Sandy Soils Local Hydric Soils List National Hydric Soils List plain in Remarks)	

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Investigator: M. Gray, E. Christensen, D.	MACHINE TO THE PARTY OF THE PAR		Date: 06-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist of Is the site significantly disturbed Is the area a potential Problem A (If needed, explain on reverse	(Atypical Situation)? Area?	Yes No No	Community ID: Upland Shrub Transect ID: Z-L37 Plot ID: Z-L37-UP-02
EGETATION			
2. Cirsium sp. He 3. Festuca sp. He 4. Poa sp. He 5. Symphoricarpos albus Sh 6. Rubus armeniacus Sh 7. *Indicator prefix = assigned by delinear Percent of Dominant Species that are OBL, Fa (excluding FAC-). Remarks: Two of the three dominant species in	rub FACU 15 rub FACU 10 tor, not defined by FWS. ACW or FAC the sampling point are unidence of seed heads during the	10	Poa that are likely upland species, but t FAC species (Betula papyrifera) is present, sampling point.
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:	None (in.) None (in.) None (in.)	Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Chate Water-Stained Lea	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves Data

	Carrier and a second a second and a second and a second and a second and a second a	H4(4)(5)	Field	nage Class: <u>!!!</u> d Observations	
axonomy (Subgroup)	: _Typic haplorth	ods		firm Mapped Type?	Yes
rofile Description: Pepth nches) Horizon	Matrix Color (Munsell Moi:	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concr Structure, etc.	etions,
0-6 A	10YR 2/2	None	/ None	Loam	DEREMANNE LEARNE
7-11 B	7.5YR 3/4		/ None	Silt Loam	
		AND THE PROPERTY OF THE PROPER			
			/		
					unan-iwaya sa sa sa sa
Histosol Histic Epiped Sulfidic Odor	on	Concretic	anic Content in Surface Lay	yer in Sandy Soils	
27-375. S	nditions w-Chroma Colors	Listed on Listed on Other (E	Streaking in Sandy Soils Local Hydric Soils List I National Hydric Soils List Explain in Remarks)		
Reducing Co	nditions w-Chroma Colors andicators are not RMINATION Present?	Listed on Listed on Other (E	Local Hydric Soils List National Hydric Soils List	Vithin a Wetland?	No
Reducing Co Gleyed or Lo emarks: Hydric soil i emarks: Hydric soil i et and Hydrology Pr ydric Soils Present? emarks: Due to the	RMINATION Present? additions A	Disted on Listed on Cher (Expresent.	Local Hydric Soils List I National Hydric Soils List Explain in Remarks)		3.0

Applicant/Owner: Pacific International Terminals Investigator: M.Gray, E. Christensen, D. Halladay	Date: 06-Feb-07 County; Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	? No Community ID: PSS Transect ID: Z-L37 Plot ID: Z-L37-WP-01
EGETATION	
Dominant Plant Species 1. Phalaris arundinacea 2. Spiraea douglasii 3. Shrub 4. Shrub 5. Shrub *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks: 100% of dominant vegetation is FACW. Hydrophytic vegetation	Dominant Plant Species Stratum Indicator 9/0
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: None (in.) Depth to Free Water in Pit: Depth to Saturated Soil: 2 (in.)	Wetland Hydrology Indicators: Primary Indicators: Inundated ✓ Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

xonomy	(Subgroup):	Aquandic endoaqua	lfs		s ype? Yes		
ofile Des pth ches)	cription; Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance Size/Contrast	Texture, C Structure, e	oncretions,	
0-18	-18 A 10YR 3/2		10YR 5/8	10% /	Silty Cla	ty Clay Loam	
			-:				
		24 1000000000000000000000000000000000000	3) (-1116-111-111				
	-	T. T	-	- <u>- </u>			
	• ••••••	ar australianian Exercision	-				
1	Indicators:		-				
	stosol		Concretion				
- C.	stic Epipedon	1	High Orga	anic Content in Surface	Layer in Sandy So	oils	
St	ulfidic Odor quic Moisture	Regime	High Organic S Listed on	anic Content in Surface Streaking in Sandy Soils Local Hydric Soils List		oils	
St Ac Re Gl Marks: J	ulfidic Odor quic Moisture educing Cond eyed or Low-	Regime Sitions Chroma Colors	High Organic S Listed on Listed on	anic Content in Surface Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils Li plain in Remarks)	s de la companya de l		
TLANI	ulfidic Odor quic Moisture educing Conc eyed or Low- Relatively low sampling poir DETER Vegetation I	Regime ditions Chroma Colors chroma colors and rent. MINATION Present?	High Orga Organic S Listed on Listed on Other (Ex	anic Content in Surface Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils Li plain in Remarks)	st dicate that hydric	soils are present in the	
TLANI	ulfidic Odor quic Moisture educing Conc eyed or Low- Relatively low sampling poir DETER	Regime ditions Chroma Colors chroma colors and rent. MINATION Present? sent?	High Organic S Listed on Listed on Other (Ex	anic Content in Surface Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils Li plain in Remarks)	st dicate that hydric	soils are present in the	
TLANII Trophytic tland Hyric Soils	ulfidic Odor quic Moisture educing Conceptude or Low-Relatively low sampling poir DETER Vegetation of Verology Present? The combina	Regime ditions Chroma Colors chroma colors and rent. MINATION Present? sent?	High Organic S Listed on Listed on Other (Ex edoxymorphic features to Yes Yes Yes Yes	anic Content in Surface Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils Li plain in Remarks) hroughout the matrix in	dicate that hydric	c soils are present in the	
TLANII Trophytic tland Hyric Soils	ulfidic Odor quic Moisture educing Conceptude or Low-Relatively low sampling poir DETER Vegetation of Verology Present? The combina	Regime ditions Chroma Colors chroma colors and real colors an	High Organic S Listed on Listed on Other (Ex edoxymorphic features to Yes Yes Yes Yes	anic Content in Surface Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils Li plain in Remarks) hroughout the matrix in	dicate that hydric	c soils are present in the	
narks: prophyticitand Hyric Soils	ulfidic Odor quic Moisture educing Conceptude or Low-Relatively low sampling poir DETER Vegetation of Verology Present? The combina	Regime ditions Chroma Colors chroma colors and real colors an	High Organic S Listed on Listed on Other (Ex edoxymorphic features to Yes Yes Yes Yes	anic Content in Surface Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils Li plain in Remarks) hroughout the matrix in	dicate that hydric	c soils are present in the	
narks: prophyticitand Hyric Soils	DETER Vegetation I vdrology Pres Present? The combina sampling poin	Regime ditions Chroma Colors chroma colors and rest. MINATION Present? sent? tion of hydrophytic vent is within a wetland	High Organic S Listed on Listed on Other (Ex edoxymorphic features to Yes Yes Yes Yes	anic Content in Surface Streaking in Sandy Soils Local Hydric Soils List National Hydric Soils Li plain in Remarks) hroughout the matrix in Is this Sampling Poil near the surface, and	dicate that hydric	c soils are present in the	

Applicant/Owner: Pacific Investigator: M. Gray, E. Ch					
Do Normal Circumstance Is the site significantly di Is the area a potential P (If needed, explain on	isturbed (Atyp roblem Area?		ation)	No Transec	nity ID: PSS ct ID: Z-L37 Z-L37-WP-02
	Stratum	Indicator			Stratum Indicator %
Phalaris arundinacea Spiraea douglasii			100	9	
	Shrub	FACW	³⁰ 5	10	
Lonicera involucrata Carex obnupta	Shrub	FAC+		11	
Rubus armeniacus	Shruh	FACIL	15	12	
·				14	
**************	******		***	15	
	*****			16,	
*Indicator prefix = assign				*Indicator prefix = assigned by de	
(excluding FAC-). Remarks: 100% of dominant vege	etation is FAC, FACV	, or OBL. H	ydrophy	Jic vegetation is present.	***************************************
/DROLOGY					
/DROLOGY Recorded Data (Describe in Stream, Lake, or Tide G Aerial Photographs				Wetland Hydrology Indicators: Primary Indicators: ☑ Inundated	
/DROLOGY Recorded Data (Describe in Stream, Lake, or Tide G Aerial Photographs Other	auge			Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines	
/DROLOGY Recorded Data (Describe in Stream, Lake, or Tide G Aerial Photographs Other No Recorded Data Available	auge			Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands	
/DROLOGY Recorded Data (Describe in Stream, Lake, or Tide G Aerial Photographs Other No Recorded Data Available	auge	² (in.)		Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits	uired):
PROLOGY Recorded Data (Describe in Stream, Lake, or Tide G Aerial Photographs Other No Recorded Data Available Field Observations:	auge	2(in.)		Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more req Oxidized Root Channels in Up	uired):

axonomy (Subgroup): Aquandic endoaqualfs Confirm Mapped Type? Ves Concretions, Structure, etc. Ves Verific Soil Indicators: Histosol Histosol Histosol Histo Cotor Aquic Moisture Regime Reducing Conditions Reducing	rofile Description: epth	Mottle Colors (Munsell Moist) None Concretions High Organic Organic Street Listed on Loc Listed on Nat Other (Explain	Content in Surface iking in Sandy Soils al Hydric Soils List onal Hydric Soils Lin in Remarks)	Layer in Sandy Soils	
Matrix Color (Munsell Moist) (Munsell Moist) Size/Contrast Structure, etc. 0-18 A 10YR 3/2 None / None Loam / // dric Soil Indicators: Histosol Histosol Histosol Sugnification of Sugnifica	apth Matrix Color (Munsell Moist) 0-18 A 10YR 3/2 addic Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors amarks: Soils are homogenous throughou	Concretions High Organic Organic Street Listed on Loc Listed on Nat Other (Explain	Content in Surface iking in Sandy Soils al Hydric Soils List onal Hydric Soils Lin in Remarks)	Layer in Sandy Soils	
dric Soil Indicators: Histosol	dric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors	Concretions High Organic Organic Streat Listed on Lot Listed on Nat Other (Explain	/ / / / Content in Surface iking in Sandy Soils al Hydric Soils List onal Hydric Soils Li in Remarks)	Layer in Sandy Soils	
dric Soil Indicators: Histosol	Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors marks: Soils are homogenous throughou	High Organic Organic Streat Listed on Los Listed on Nat Other (Explain	/ / / Content in Surface iking in Sandy Soils al Hydric Soils List onal Hydric Soils Li n in Remarks)	st	
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Marks: Soils are homogenous throughout the pit. The low chroma color may indicate that hydric soils are present in the samplir but no redoximorphic features were present. FLAND DETERMINATION Transport Vegetation Present? Soils Present? Wetland Vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the samplir present in the sampling point within a wetland? Wetland Vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the sampling point within a wetland?	Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors marks: Soils are homogenous throughou	High Organic Organic Streat Listed on Los Listed on Nat Other (Explain	iking in Sandy Soils al Hydric Soils List onal Hydric Soils Li n in Remarks)	st	
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Marks: Soils are homogenous throughout the pit. The low chroma color may indicate that hydric soils are present in the samplir but no redoximorphic features were present. FLAND DETERMINATION Transport Vegetation Present? Soils Present? Wetland Vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the samplir present in the sampling point within a wetland? Wetland Vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the sampling point within a wetland?	Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors marks: Soils are homogenous throughou	High Organic Organic Streat Listed on Los Listed on Nat Other (Explain	iking in Sandy Soils al Hydric Soils List onal Hydric Soils Li n in Remarks)	st	
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Marks: Soils are homogenous throughout the pit. The low chroma color may indicate that hydric soils are present in the samplir but no redoximorphic features were present. FLAND DETERMINATION Transport Vegetation Present? Soils Present? Wetland Vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the samplir present in the sampling point within a wetland? Wetland Vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the sampling point within a wetland?	Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors marks: Soils are homogenous throughou	High Organic Organic Streat Listed on Los Listed on Nat Other (Explain	iking in Sandy Soils al Hydric Soils List onal Hydric Soils Li n in Remarks)	st	
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Marks: Soils are homogenous throughout the pit. The low chroma color may indicate that hydric soils are present in the samplir but no redoximorphic features were present. FLAND DETERMINATION TLAND DETERMINATION Grophytic Vegetation Present? Additional of the present o	Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors marks: Soils are homogenous throughou	High Organic Organic Streat Listed on Los Listed on Nat Other (Explain	iking in Sandy Soils al Hydric Soils List onal Hydric Soils Li n in Remarks)	st	
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Marks: Soils are homogenous throughout the pit. The low chroma color may indicate that hydric soils are present in the samplir but no redoximorphic features were present. FLAND DETERMINATION Transport Vegetation Present? Soils Present? Wetland Vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the samplir present in the sampling point within a wetland? Wetland Vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the sampling point within a wetland?	Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors marks: Soils are homogenous throughou	High Organic Organic Streat Listed on Los Listed on Nat Other (Explain	iking in Sandy Soils al Hydric Soils List onal Hydric Soils Li n in Remarks)	st	
Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Marks: Soils are homogenous throughout the pit. The low chroma color may indicate that hydric soils are present in the samplir but no redoximorphic features were present. FLAND DETERMINATION Grophytic Vegetation Present? Filand Hydrology Present? Fire Soils Present? Wetland vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the samplir present in the samplir present.	Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors marks: Soils are homogenous throughou	High Organic Organic Streat Listed on Los Listed on Nat Other (Explain	iking in Sandy Soils al Hydric Soils List onal Hydric Soils Li n in Remarks)	st	
Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Color Cher (Explain in Remarks) TLAND DETERMINATION Grophytic Vegetation Present? Gric Soils Present? Is this Sampling Point Within a Wetland? The	Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors marks: Soils are homogenous throughou	Listed on Loc Listed on Nat Other (Explain	al Hydric Soils List onal Hydric Soils Li n in Remarks)	st	sent in the sampling pol
Gleyed or Low-Chroma Colors Other (Explain in Remarks) Marks: Soils are homogenous throughout the pit. The low chroma color may indicate that hydric soils are present in the sampling but no redoximorphic features were present. FLAND DETERMINATION Grophytic Vegetation Present? Gric Soils Present? Gric Soils Present? Wetland Vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the sampling Point Within a Wetland.	Gleyed or Low-Chroma Colors marks: Soils are homogenous throughou	Other (Explain the pit. The low chroma col	n in Remarks)		sent in the sampling pol
but no redoximorphic features were present. TLAND DETERMINATION	sons are normogenous emougnou	It the pit. The low chroma col ere present.	or may indicate tha	t hydric soils are pre	sent in the sampling poi
tland Hydrology Present? Yes Is this Sampling Point Within a Wetland? Yes Marks: Wetland vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the sampling Point Within a Wetland?	LAND DETERMINATION				
wedaha vegetation and hydrology are present. Although indicators of hydric soils are not present, it appears that the si	etland Hydrology Present?	Yes	this Sampling Poi	nt Within a Wetland?	Yes
	wedana vegetation and nydrolog	gy are present. Although indic	ators of hydric soil	s are not present, it a	appears that the samplir
Assessed to HOLIOAGI				Appro	oved by HQUSACE 3/92
Approved by HQUSACE		ne corridor in assessment area	4A.		
ional Plot is located within a powerline corridor in assessment area 4A.	ments:				

r roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: D. Halladay	International Termina				Date: 06-Feb-07 County: Whatcom State: Washington
Do Normal Circumstand Is the site significantly of Is the area a potential F (If needed, explain of	listurbed (Atypi Problem Area?		ation)	Yes No No	Community ID: PFO Transect ID: Z-L37 Plot ID: Z-L37-WP-03
EGETATION					
Dominant Plant Species	Stratum	Indicator	_ %	Dominant Plant Species	Stratum Indicator %
1. Carex obnupta	Herb Herb	OBL		9	
2. Rubus spectabilis	Shrub	FAC+		10	
3. Acer circinatum	Tree	FAC-	1	11	
4. Alnus rubra	Tree	FAC	75	12	
Symphoricarpos albus	Shrub	FACU	5	13	
Populus balsamifera	Tree	FAC	10		
7				15	
*Indicator prefix = assign	ned by delineator, not o	defined by F	WS.	The same is a construction of the same and the same and the same and	ssigned by delineator, not defined by FWS.
Percent of Dominant Species tha	t are OBL, FACW or	FAC		100%	
(excluding FAC-). Remarks: 100% of dominant veg				100%	
(excluding FAC-). Remarks: 100% of dominant veg	getation is FAC, FAC+,			100% tic vegetation is present.	
(excluding FAC-). Remarks: 100% of dominant veg /DROLOGY Recorded Data (Describe in	getation is FAC, FAC+,			tic vegetation is present. Wetland Hydrology Indicato	rs:
(excluding FAC-). Remarks: 100% of dominant veg	getation is FAC, FAC+,			100% tic vegetation is present.	rs:
(excluding FAC-). Remarks: 100% of dominant veg /DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Company). Aerial Photographs Other	getation is FAC, FAC+, n Remarks): Gauge			Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper	
(excluding FAC-). Remarks: 100% of dominant veg /DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Control Aerial Photographs Other	getation is FAC, FAC+, n Remarks): Gauge			Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks	
(excluding FAC-). Remarks: 100% of dominant veg /DROLOGY Recorded Data (Describe in Stream, Lake, or Tide Control Aerial Photographs Other	getation is FAC, FAC+, n Remarks): Gauge			Wetland Hydrology Indicato Primary Indicators: Inundated V Saturated in Upper Water Marks Drift Lines	r 12 Inches
(excluding FAC-). Remarks: 100% of dominant veg /DROLOGY Recorded Data (Describe in Stream, Lake, or Tide () Aerial Photographs Other No Recorded Data Available	getation is FAC, FAC+, n Remarks): Gauge			Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	r 12 Inches s in Wetlands
(excluding FAC-). Remarks: 100% of dominant veg /DROLOGY Recorded Data (Describe in Stream, Lake, or Tide (Aerial Photographs Other No Recorded Data Available Field Observations:	n Remarks): Sauge	or OBL. Hy	drophy	Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2	r 12 Inches s in Wellands or more required);
YDROLOGY Remarks: 100% of dominant veg YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide (Aerial Photographs Other No Recorded Data Available	getation is FAC, FAC+, n Remarks): Gauge	or OBL. Hy	drophy	Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Oxidized Root Cha	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches
YDROLOGY Recorded Data (Describe in Stream, Lake, or Tide Company Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water:	n Remarks): Sauge	or OBL. Hy	drophy	Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches
(excluding FAC-). Remarks: 100% of dominant veg // DROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit:	n Remarks): Gauge Non	or OBL. Hy	drophy	Wetland Hydrology Indicato Primary Indicators: Inundated V Saturated in Upper Water Marks Drift Lines Drainage Patterns Secondary Indicators (2 Oxidized Root Cha Water-Stained Lea	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data
(excluding FAC-). Remarks: 100% of dominant veg // DROLOGY Recorded Data (Describe in Stream, Lake, or Tide of Aerial Photographs Other // No Recorded Data Available Field Observations: Depth of Surface Water:	n Remarks): Gauge	or OBL. Hy	drophy	Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Oxidized Root Cha	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

axonomy	(Subgroup):	Aquandic endoaqua	113		Contirn	Mapped Ty	pe? Yes	
rofile Des epth nches)	cription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist) S	Mottle Abundar ize/Contrast	nce/	Texture, Co Structure, e	ncretions,	
0-16	Α	10YR 3/1	None	/ None		Silty Clay Loam		
	. 20111000					246.04042		
	C	- 		<u>'</u>		***************************************		MANAGETTAN.
dric Soil	Indicators:							
н	stosol							
Si Ad Ri	stic Epipedor ulfidic Odor quic Moisture educing Cond	Regime	Organic Stre Listed on Loc Listed on Nat	Content in Surfa aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks)	Soils List	in Sandy So	ils	
Si Ac	stic Epipedor ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions -Chroma Colors	High Organic Organic Stre Listed on Loc Listed on Nat	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks)	Soils List Is List	in Sandy So	ils	
Si Ac	stic Epipedor ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions -Chroma Colors	High Organic Organic Stre Listed on Lot Listed on Nat Other (Explai	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks)	Soils List Is List	in Sandy So	ils	
Si Ac Ri ✓ Gi emarks: -	stic Epipedor ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions -Chroma Colors	High Organic Organic Stre Listed on Lot Listed on Nat Other (Explai	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks)	Soils List Is List	in Sandy So	ils	
ETLANI ydrophytii /etland H	stic Epipedor ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions -Chroma Colors ma matrix indicate the colors RMINATION Present?	High Organic Stre	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks)	Soils List Is List			
emarks: -	stic Epipedor ulfidic Odor quic Moisture educing Condeyed or Low The low chro C Vegetation ydrology Press Present?	Regime ditions -Chroma Colors ma matrix indicate the colors RMINATION Present? sent?	High Organic Stre	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks) e sampling poin s this Sampling	Soils ist is List nt.	nin a Wetlar	d? Yes	within a wetland
emarks: -	stic Epipedor ulfidic Odor quic Moisture educing Condeyed or Low The low chro C Vegetation ydrology Press Present?	Regime ditions -Chroma Colors ma matrix indicate the colors RMINATION Present? sent?	High Organic Stre	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks) e sampling poin s this Sampling	Soils ist is List nt.	nin a Wetlar	d? Yes	within a wetland
emarks: -	stic Epipedor ulfidic Odor quic Moisture educing Condeyed or Low The low chro C Vegetation ydrology Press Present?	Regime ditions -Chroma Colors ma matrix indicate the colors RMINATION Present? sent?	High Organic Stre	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks) e sampling poin s this Sampling	Soils List Is List Int.	nin a Wetlar	d? Yes	within a wetland
SI AK RR GI ETLANI emarks: -	stic Epipedor ulfidic Odor quic Moisture educing Condeyed or Low The low chro C Vegetation ydrology Press Present?	Regime ditions -Chroma Colors ma matrix indicate the colors RMINATION Present? sent?	High Organic Stre	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks) e sampling poin s this Sampling	Soils List Is List Int.	nin a Wetlar	d? Yes	within a wetland
SI AK RR GI ETLANI emarks: -	stic Epipedor ulfidic Odor quic Moisture educing Condeyed or Low The low chro C Vegetation ydrology Press Present?	Regime ditions -Chroma Colors ma matrix indicate the colors RMINATION Present? sent?	High Organic Stre	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks) e sampling poin s this Sampling	Soils List Is List Int.	nin a Wetlar at the samp	d? Yes	within a wetland
SI AK RR GI ETLANI emarks: -	stic Epipedor ulfidic Odor quic Moisture educing Condeyed or Low The low chro c Vegetation ydrology Pre s Present? The presence	Regime ditions -Chroma Colors ma matrix indicate the colors RMINATION Present? sent?	High Organic Stre	aking in Sandy S al Hydric Soils L ional Hydric Soil n in Remarks) e sampling poin s this Sampling and hydric soils in	Soils List Is List Int.	nin a Wetlar at the samp	d? Yes	

Applicant/Owner: Pacific Terminal Terminals Investigator: E. Christensen, J. Rock	Date: 03-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes Community ID: PFO Transect ID: Z-L37 No Plot ID: Z-L37-WP-04
EGETATION	
1. Carex obnupta 2. Rubus spectabilis 3. Populus balsamifera 4. Alnus rubra 5	9
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: 0 (in.)	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

axonomy	(Subgroup):	Aquandic endoaqua	lls		Confirm	Mapped Ty	/pe? Yes
ofile Des opth ches)	scription; Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundan Size/Contrast	ice/	Texture, Co Structure, e	
0-4	Α	10YR 2/1	None	/ No.	ne	Loam	
4-16	В	10YR 6/1	10YR 5/6	40% / Dis	tinct	Silty Cla	у
			-			-	
			l uteraturate	·			
-				/			
dric Soil	Indicators:						
	istosol						
			Concretion	is Sie Content in Surfe	oo I ayar	in Condu Co	aile
VS	istic Epipedor ulfidic Odor		High Organ	nic Content in Surfa reaking in Sandy S	oils	in Sandy So	pils
✓ S — A — R	istic Epipedor ulfidic Odor quic Moisture educing Cond	Regime	High Organ Organic Str Listed on L Listed on N	nic Content in Surfa	oils ist	in Sandy So	bils
✓ S A R V G	istic Epipedor ulfidic Odor quic Moisture educing Cond leyed or Low	Regime ditions Chroma Colors	High Organ Organic Str Listed on L Listed on N Other (Exp	nic Content in Surfa reaking in Sandy S .ocal Hydric Soils L vational Hydric Soils lain in Remarks)	oils ist s List	2,000	sent in the sampling point.
A R R Y G	istic Epipedor ulfidic Odor quic Moisture educing Conc ileyed or Low Hydric soil inc D DETER ic Vegetation lydrology Pre-	Regime ditions Chroma Colors dicators including sulf	High Organ Organic Str Listed on L Listed on N Other (Exp	nic Content in Surfa reaking in Sandy S .ocal Hydric Soils L lational Hydric Soils lain in Remarks)	oils ist s List t hydric s	oils are pre	sent in the sampling point.
A R R G G G G G G G G G G G G G G G G G	istic Epipedor ulfidic Odor quic Moisture educing Condition eleyed or Low Hydric soil ind	Regime ditions Chroma Colors dicators including sulf cators inclu	High Organ Organic Sta Listed on N Other (Exp	nic Content in Surfa reaking in Sandy S .ocal Hydric Soils L vational Hydric Soils lain in Remarks)	oils ist s List t hydric s	oils are pre	sent in the sampling point.
A R R G G G G G G G G G G G G G G G G G	istic Epipedor ulfidic Odor quic Moisture educing Conc ileyed or Low Hydric soil inc D DETER ic Vegetation lydrology Present?	Regime ditions Chroma Colors dicators including sulf	High Organic Statisted on Lated on Nother (Expirition of Control o	nic Content in Surfareaking in Sandy S cocal Hydric Soils Liver So	oils ist s List t hydric s	oils are pre	sent in the sampling point.
TLAN rdrophytietland Hrdric Soi	istic Epipedor ulfidic Odor quic Moisture educing Conc ileyed or Low Hydric soil inc D DETER ic Vegetation lydrology Present?	Regime ditions Chroma Colors dicators including sulf	High Organic Statisted on Lated on Nother (Expirition of Control o	nic Content in Surfareaking in Sandy S cocal Hydric Soils Liver So	oils ist s List t hydric s	oils are pre	sent in the sampling point.
TLAN drophytietland H	istic Epipedor ulfidic Odor quic Moisture educing Conc ileyed or Low Hydric soil inc D DETER ic Vegetation lydrology Present?	Regime ditions Chroma Colors dicators including sulf	High Organic Statisted on Lated on Nother (Expirition of Control o	nic Content in Surfareaking in Sandy S cocal Hydric Soils Liver So	oils ist s List t hydric s	oils are pre	sent in the sampling point.
TLAN drophytietland H	istic Epipedor ulfidic Odor quic Moisture educing Conc ileyed or Low Hydric soil inc D DETER ic Vegetation lydrology Present?	Regime ditions Chroma Colors dicators including sulf	High Organic Statisted on Lated on Nother (Expirition of Control o	nic Content in Surfareaking in Sandy S cocal Hydric Soils Liver So	oils ist s List t hydric s	oils are pre	sent in the sampling point.
TLAN drophytietland H	istic Epipedor ulfidic Odor quic Moisture educing Conc ileyed or Low Hydric soil inc D DETER ic Vegetation lydrology Present?	Regime ditions Chroma Colors dicators including sulf	High Organic Statisted on Lated on Nother (Expirition of Control o	nic Content in Surfareaking in Sandy S cocal Hydric Soils Liver So	oils ist s List t hydric s	oils are pre	sent in the sampling point.
TLAN drophytietland H	istic Epipedor ulfidic Odor quic Moisture educing Conc ileyed or Low Hydric soil inc D DETER ic Vegetation lydrology Present?	Regime ditions Chroma Colors dicators including sulf	High Organic Statisted on Lated on Nother (Expirition of Control o	nic Content in Surfareaking in Sandy S cocal Hydric Soils Liver So	oils ist s List t hydric s	noils are pre	sent in the sampling point.

Investigator: M. Gray, D. Halla	erminal Iternational Termin aday				Date: 06-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dis Is the area a potential Pro (If needed, explain on re	turbed (Atypoblem Area?	ical Situa	ation)	Yes No No	Community ID: Upland Meadow Transect ID: Z-L38 Plot ID: Z-L38-UP-01
/EGETATION			-		0/
Dominant Plant Species	Stratum	-		Dominant Plant Species	Stratum Indicator %
1. Phalaris arundinacea	Herb	FACW	100	9	
2. Festuca rubra	Herb	_ FAC+	5	10	
3. Symphoricarpos albus	Shrub	FACU	15	11	
4. Rubus armeniacus				12	
5. Thuja plicata	Tree		15		
6. Pteridium aquilinum	Herb		1	· Value of the control of the contro	
7. Holodiscus discolor	Shrub	UPL	1	INTERCHALISM SEVER AT EUCK OF EASING MATERIAL PROPERTY DAY	
*Indicator prefix = assigned	by delineator, no	defined by F	WS.		assigned by delineator, not defined by FWS.
Percent of Dominant Species that a (excluding FAC-).	re OBL, FACW o	r FAC		100%	
	ecies of Fescue th	at is likely ar	n upland		nd UPL. Another species in the sampling ed due to the absence of seed heads during
the January sampling. We	etiand vegetation i	Tarie Sampiii			
the January sampling. We		, ale sampin			
the January sampling. We IYDROLOGY Recorded Data (Describe in R	emarks):	, ale sampin		Wetland Hydrology Indicato	re:
the January sampling. We	emarks):			Wetland Hydrology Indicato Primary Indicators: Inundated	
ithe January sampling. We IYDROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gau Aerial Photographs Other	emarks):			Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper	
ithe January sampling. We IYDROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gau Aerial Photographs	emarks):	, ale samp		Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks	
ithe January sampling. We IYDROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gau Aerial Photographs Other	emarks):			Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines	r 12 Inches
ithe January sampling. We IYDROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gau Aerial Photographs Other	emarks):			Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	r 12 Inches s in Wellands
ithe January sampling. We IYDROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gat Aerial Photographs Other No Recorded Data Available Field Observations:	lemarks): uge			Wetland Hydrology Indicato Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2	r 12 Inches s in Wetlands or more required):
ithe January sampling. We IYDROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gau Aerial Photographs Other No Recorded Data Available	lemarks): uge			Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Mater-Stained Lea	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves
ithe January sampling. We IYDROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gat Aerial Photographs Other No Recorded Data Available Field Observations:	temarks): uge No			Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Water-Stained Lea	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves
ithe January sampling. We IYDROLOGY ☐ Recorded Data (Describe in R ☐ Stream, Lake, or Tide Gat ☐ Aerial Photographs ☐ Other ☐ No Recorded Data Available Field Observations: Depth of Surface Water:	temarks): uge No No	one(in.)		Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Mater-Stained Lea	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves Data
ithe January sampling. We IYDROLOGY Recorded Data (Describe in R Stream, Lake, or Tide Gat Aerial Photographs Other V. No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit:	temarks): uge No No	one (in.)		Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposite Drainage Patterns Secondary Indicators (2 Oxidized Root Chate Water-Stained Leading Sediment Deposite Cocal Soil Survey (2) FAC-Neutral Test	r 12 Inches s in Wellands or more required): annels in Upper 12 Inches aves Data

axonomy (Subgroup):	Typic haplorthods			d Observations firm Mapped Type? Yes
rofile Description: Pepth nches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7 A	10YR 3/3	None	/ None	Silt Loam
7-8 B	10YR 3/3	10YR 5/6	10% /	Silt Loam
	L CREUZ HARACHIONA			
		R 0/85/2007/7/WWW.007/7/	·	
mos-ara: deriposar	_			
dric Soil Indicators:				
2000				
Histosol		Concretion		usa la Casada Calla
Histic Epipedor Sulfidic Odor		High Orgar	nic Content in Surface La reaking in Sandy Soils	yer in Sandy Soils
Histic Epipedor Sulfidic Odor Aquic Moisture Reducing Cond Gleyed or Low	Regime ditions -Chroma Colors le was only completed	High Organ Organic Str Listed on L Listed on N Other (Exp	nic Content in Surface Lay reaking in Sandy Soils local Hydric Soils List lational Hydric Soils List lain in Remarks)	eline. Low chroma color and redoxymorphi
Histic Epipedor Sulfidic Odor Aquic Moisture Reducing Cond Gleyed or Low emarks: The soil profifeatures in the	Regime ditions -Chroma Colors le was only completed the upper 12 inches inc	High Organ Organic Str Listed on L Listed on N Other (Exp	nic Content in Surface Lay reaking in Sandy Soils local Hydric Soils List lational Hydric Soils List lain in Remarks)	eline. Low chroma color and redoxymorphi
Histic Epipedor Sulfidic Odor Aquic Moisture Reducing Cond Gleyed or Low emarks: The soil profi features in the	Regime ditions -Chroma Colors le was only completed to the upper 12 inches incompleted to the upper 12 inches inches incompleted to the upper 12 inches inc	High Organ Organic Str Listed on L Listed on N Other (Exp	nic Content in Surface Lay reaking in Sandy Soils local Hydric Soils List lational Hydric Soils List lain in Remarks)	eline. Low chroma color and redoxymorphi
Histic Epipedor Sulfidic Odor Aquic Moisture Reducing Cond Gleyed or Low	Regime ditions -Chroma Colors le was only completed the upper 12 inches incompleted the upper 12 inches	High Organ Organic Str Listed on L Listed on N Other (Expl	nic Content in Surface Lay reaking in Sandy Soils local Hydric Soils List lational Hydric Soils List lain in Remarks)	eline. Low chroma color and redoxymorphi point.
Histic Epipedor Sulfidic Odor Aquic Moisture Reducing Cond Gleyed or Low emarks: The soil profi features in the ETLAND DETER ydrophytic Vegetation /etland Hydrology Pre- ydric Soils Present? demarks: One FACW second	Regime ditions -Chroma Colors le was only completed to the upper 12 inches incompleted inches incompleted to the upper 12 inches incompleted incomple	High Organ Organic Str Listed on L Listed on N Other (Expl d to 8 inches due to proxin dicate that hydric soils are No No No Yes (Phalaris arunidinacea), b	nic Content in Surface Lay reaking in Sandy Soils local Hydric Soils List lational Hydric Soils List lain in Remarks) mity to underground pipe present in the sampling	eline. Low chroma color and redoxymorphi point.

roject/Site: Gateway Pacific To Applicant/Owner: Pacific In Investigator: E. Christensen, C	ternational Termin				Date: 07-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dis Is the area a potential Pro (If needed, explain on the	turbed (Atypoblem Area?	ical Situa	ation)	Yes No No	Community ID: Upland Forest Transect ID: Z-L43 Plot ID: Z-L43-UP-01
/EGETATION Dominant Plant Species	Stratum	Indicator	%	Dominant Plant Species	Stratum Indicator %
1. Festuca sp.		NI	E. 845		
2. Alnus rubra	The second secon			And the second control of the second control	
	Shrub	FACU	30	Eliferation and the annual property of the pro	
Rubus ursinus Oemleria cerasiformis	Herh	EACH	5		
5. Rubus spectabilis	Shrub	FAC+	5	WAS CONTRACTED BY COMPANY OF THE PROPERTY OF THE PARTY OF	
6. Poa sp.	Herb	NI	30		
7				THE REPORT OF THE PARTY OF THE PROPERTY OF THE PROPERTY OF THE	Service and the service and th
*Indicator prefix = assigned					ssigned by delineator, not defined by FWS.
heads during the Februar	the sampling point	is an uniden	ot inclu	ded in the percent of species in t	ns unconfirmed due to the absence of seed he sampling point that are OBL, FACW or vegetation does not appear to be dominant
IYDROLOGY					
Recorded Data (Describe in R Stream, Lake, or Tide Gat Aerial Photographs Other No Recorded Data Available				Welland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines	12 Inches
Field Observations:	200			Sediment Deposits Drainage Patterns Secondary Indicators (2	in Wetlands or more required):
Depth of Surface Water:	No	ne(in.)	Š	Oxidized Root Cha Water-Stained Lea	annels in Upper 12 Inches
Depth to Free Water in Pit:	No	ne(in.)		Local Soil Survey [
Depth to Saturated Soil:	No	one (in.)	è	Other (Explain in R	temarks)
Wetland hydrology indica	itors are not preser	nt.			

	(Subgroup):	rchbay silt k				Field	age Class: Observations rm Mapped Ty	
rofila Dar							24.47	
rofile Des epth nches)	Horizon	Matrix Co (Munsell		Mottle Colors (Munsell Moist)	Mottle Abunda Size/Contrast	ince/	Texture, Co Structure, e	
0-16	Α	10YR	3/2	None	/ None		Loam	

	t anderstand	5 	*******	1 111111111111111111111111				***
							-	
o-carre	. 			: 				
rdrie Soil	Indicators:							
	stosol			Concretio	ne			
Hi Si	stic Epipedon ulfidic Odor			High Orga	anic Content in Surf Streaking in Sandy S	ace Laye Soils	er in Sandy So	oils
R	quic Moisture educing Cond	litions		Listed on	Local Hydric Soils I National Hydric Soi	_ist		
G	eyed or Low-	Chroma Colo	ors	Other (Ex	plain in Remarks)	10 1101		
			not presen	L.				
TLANI	DETER	MINATIO		0	lo this Constitut	Da'an W		.10
TLANI	D DETER	MINATIO	N	0	ls this Sampling	Point W	ithin a Wetlan	d? No
TLANI drophytic etland Hy dric Soils emarks:	DETER Vegetation Indrology Press Present?	MINATIO Present? ent?	DN	0 0 0	2, 893			d? No ing point is not within a
TLANI drophytic etland Hy dric Soils emarks:	DETER Vegetation Industry	MINATIO Present? ent?	DN	0 0 0	2, 893			EDI TWE
TLANI drophytic etland Hy dric Soils marks:	DETER Vegetation Industry	MINATIO Present? ent?	DN	0 0 0	2, 893		hat the sampli	ing point is not within a
TLANI drophytic etland Hy dric Soils marks:	DETER Vegetation Industrial Present? The absence wetland.	MINATIO Present? ent? of hydrophy	N N N	o o o tion, wetland hydrology	, and hydric soils ir	ndicate t	hat the sampli	ing point is not within a
TLANI drophytic etland Hy dric Soils marks:	DETER Vegetation Industrial Present? The absence wetland.	MINATIO Present? ent? of hydrophy	N N N	0 0 0	, and hydric soils ir	ndicate t	hat the sampli	ing point is not within a

. roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: E. Christensen, D. Halladay		Date: 07-Feb-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: PEM Transect ID: Z-L43 Plot ID: Z-L43-WP-01
EGETATION		
1. Phalaris arundinacea 2. Festuca rubra 3. Poa sp. 4. Vicia americana 4. Vicia americana 5. Juncus effusus 6	10	he sampling point that are OBL_FACW or
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Bell Cin.) Depth to Saturated Soil: Surface (in.)	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns is Secondary Indicators (2 of Oxidized Root Chair Water-Stained Leav Local Soil Survey D FAC-Neutral Test Other (Explain in Re	12 Inches in Wetlands or more required): nnels in Upper 12 Inches wes

ap Unit Name Series and Phase): _Whitehorn silt loam axonomy (Subgroup): _Aquandic endoaqualfs								Observations rm Mapped Ty			
ofile Des pth ches)			Mottle Colors (Munsell Moist)		Mottle Abunda Size/Contrast	nce/	Texture, Concretions, Structure, etc.				
0-9	A 10YR 3/2		None		/ No	one	Loam				
9-18			10YR 5/8		25% /	25% /		Clay Loam			
				-							
						11					
						//	******	6 2000		-	
H H So	Indicators: istosol istic Epipedon ulfidic Odor quic Moisture			į.	_ Concreti _ High Org	ons ganic Content in Surf Streaking in Sandy S	ace Lay	er in Sandy So	ils		
✓ G marks:	educing Cond leyed or Low- Low chroma o	litions Chroma Co color and re	edoxymorpi	hic features	Listed or Listed or Other (E	and a sandy an Local Hydric Soils Len National Hydric Soils Len National Hydric Soils (Explain in Remarks) er 12 inches indicate	ist Is List	dric soils are p	presen	it in the sar	npling po
✓ G marks: franciscopytical High street Graphytical High street franciscopytical High	educing Cond leyed or Low-	MINATIONS Chroma Co	edoxymorpi ON	hic features Yes Yes Yes	Listed or Listed or Other (E	n Local Hydric Soils L n National Hydric Soil xplain in Remarks)	ist s List			it in the sar	npling po
TLANI drophytietland H dric Soil	D DETER c Vegetation I ydrology Pres s Present?	MINATIONS Chroma Co	ON rophytic ve	res res res	Listed or Listed or Other (E	n Local Hydric Soils L n National Hydric Soil explain in Remarks) er 12 inches indicate	ist is List that hy	ithin a Wetlan	d?		
LANI drophytitland H dric Soil	D DETER c Vegetation I ydrology Pres s Present?	MINATIONS Chroma Co	ON rophytic ve	res res res	Listed or Listed or Other (E	n Local Hydric Soils Len National Hydric Soils En National Hydric Soil Explain in Remarks) er 12 inches indicate Is this Sampling	ist is List that hy	ithin a Wetlan	d? bils inc		the samp

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Gray, E. Christensen		Date: 20-Mar-07 County: Whatcom State: Washington		
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	? No No	Community ID: Transect ID: Z-L47 Plot ID: Z-L47-UP-01		
/EGETATION				
Dominant Plant Species 1. Festuca rubra 2. Taraxacum officinale 3. Herb FACU 10 3. FACU 5. FACU 10 *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	9	Stratum Indicator %		
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks:	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Cha Water-Stained Lea Local Soil Survey (1 FAC-Neutral Test Other (Explain in R	12 Inches in Wetlands or more required): nnnels in Upper 12 Inches ves Data		

ap Unit Name eries and Phase): _Birch Bay Silt Loam exonomy (Subgroup): _Typic haplorthods						Field	irm Mapped Typ	e? Yes	
file Description; oth Matrix Color shes) Horizon (Munsell Moist)		Mottle Colors (Munsell Moist)			Mottle Abundance/ Size/Contrast		Texture, Concretions, Structure, etc.		
0-16			3/2	None			None	 Silt Loam	
16-18	B	10YR	3/2	7.5YR	4/3	/ 5% /		Silt Loam	
					-100	1			
CONTRACTOR IN				H): HILLION AN		i			
	200000000					<u> </u>		<u> </u>	
S	stic Epipedor ulfidic Odor	10						I- Cd. C-II	<u>&</u> (
R	quic Moisture educing Con- leyed or Low Hydric soil in	ditions -Chroma Co		nt.	Organic Listed or _ Listed or	anic Content in S Streaking in Sann I Local Hydric So In National Hydric In Remark	dy Soils ils List Soils List	er in Sandy Soil	s
marks:	educing Cond leyed or Low	ditions -Chroma Co dicators are RMINATI Present? sent?	e not prese	nt.	Organic Listed or _ Listed or	Streaking in Sand Local Hydric So n National Hydric xplain in Remark	dy Soils ils List Soils List s)	ver in Sandy Soil	
marks:	D DETER C Vegetation ydrology Pre	ditions -Chroma Co dicators are RMINATI Present? sent?	e not prese		Organic Listed or _ Listed or	Streaking in Sand Local Hydric So n National Hydric xplain in Remark	dy Soils ils List Soils List s)		
TLAN TLAN Transport D DETER C Vegetation ydrology Pre	ditions -Chroma Co dicators are RMINATI Present? sent?	e not prese		Organic Listed or _ Listed or	Streaking in Sand Local Hydric So n National Hydric xplain in Remark	dy Soils ils List Soils List s)	Vithin a Wetland	1?	
TLAN drophytietland H	D DETER C Vegetation ydrology Pre	chroma Conditions Chroma Conditions Cond	ON	No	Organic Listed or _ Listed or	Streaking in Sand Local Hydric So n National Hydric xplain in Remark	dy Soils ils List Soils List s)	Vithin a Wetland	

roject/Site: Gateway Pacific T Applicant/Owner: Pacific I Investigator: M. Gray, E. Chr		Date: 20-Mar-07 County: Whatcom State: Washington	
Do Normal Circumstance Is the site significantly dis Is the area a potential Pr (If needed, explain on	sturbed (Atypical Situation) oblem Area?	Yes No No	Community ID: Transect ID: Z-L47 Plot ID: Z-L47-UP-02
EGETATION			а
2. Juncus effusus 3. Ranunculus 4	Herb	10 11 12 13 14 15 16	
Recorded Data (Describe in Stream, Lake, or Tide Gate April Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit:		Wetland Hydrology Indicate Primary Indicators: Inundated V Saturated in Uppe Water Marks Drift Lines Sediment Deposi Drainage Patterns Secondary Indicators (2 Oxidized Root Cr Water-Stained Le Local Soil Survey FAC-Neutral Test Other (Explain in	er 12 Inches ts s in Wellands 2 or more required): nannels in Upper 12 Inches saves Data

OUTO BOX SACTOR	(Subgroup):	- Typic nap	noi trious					onfirm Mapped Type?
ofile Desc epth nches)	cription; Horizon	Matrix C		Mottle C		Mottle Abur Size/Contrast		Texture, Concretions, Structure, etc.
0-18	Α	10YR	3/2		None		None	Silt Loam
16-18	A2	10YR	3/2	10YR	5/6	5% /	Faint	Sandy Loam
		4 9100001						
					-			
	******			_ ~~~				
dric Soil I	ndicators:							
	tosol							
				J.	_ Concreti	ons	20 0	2.4 0.5 0.5
Su	tic Epipedon Ifidic Odor			1	High Org Organic	anic Content in S Streaking in Sand	y Soils	Layer in Sandy Soils
Aq	lfidic Odor uic Moisture ducing Cond	Regime ditions	x	-	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S	ly Soils Is List Soils Lis	
Aq	lfidic Odor uic Moisture	Regime ditions	olors		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi	ly Soils Is List Soils Lis	
Aq Re Gle	Ifidic Odor uic Moisture ducing Cond eyed or Low-	Regime ditions Chroma Co			High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S	ly Soils Is List Soils Lis	
— Aq Re Gle	lfidic Odor uic Moisture ducing Cond	Regime ditions Chroma Co		nt.	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S	ly Soils Is List Soils Lis	
— Aq Re Gle	Ifidic Odor uic Moisture ducing Cond eyed or Low-	Regime ditions Chroma Co		ent.	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S	ly Soils Is List Soils Lis	
— Aq Re Gle	Ifidic Odor uic Moisture ducing Cond eyed or Low-	Regime ditions Chroma Co		nt.	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S	ly Soils Is List Soils Lis	
— Aq Re Gle	Ifidic Odor uic Moisture ducing Cond eyed or Low-	Regime ditions Chroma Co		ent.	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S	ly Soils Is List Soils Lis	
— Aq Re Gle	Ifidic Odor uic Moisture ducing Cond eyed or Low-	Regime ditions Chroma Co		nt.	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S	ly Soils Is List Soils Lis	
— Aq Re Gle	lfidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Co dicators are	e not prese	int.	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S	ly Soils Is List Soils Lis	
Marks: H	lfidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Co dicators are	e not prese	nt.	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand Local Hydric Soi National Hydric S	ly Soils Is List Soils Lis	
FLAND drophytic etland Hyd	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	e not prese	nt.	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
FLAND drophytic etland Hyd	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil ind	Regime ditions Chroma Codicators are MINATION Present?	on	nt.	High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
FLAND drophytic etland Hydric Soils	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
FLAND drophytic etland Hyd	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
FLAND drophytic etland Hydric Soils	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
TLAND drophytic etland Hydric Soils	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
Aq Re Re Gle Gle Gle Gle Gle Gle Gle Gle Gle Gl	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
Aq Re Re Gle Gle Gle Gle Gle Gle Gle Gle Gle Gl	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
Aq Re Re Gle Gle Gle Gle Gle Gle Gle Gle Gle Gl	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
Aq Re Re Gle Gle Gle Gle Gle Gle Gle Gle Gle Gl	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
FLAND drophytic etland Hydric Soils	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	
TLAND drophytic etland Hydric Soils	Ifidic Odor uic Moisture ducing Cond eyed or Low- lydric soil inc	Regime ditions Chroma Codicators are MINATION Present?	on		High Org Organic Listed or Listed or	anic Content in S Streaking in Sand I Local Hydric Soi I National Hydric S xplain in Remarks	y Soils is List Soils Lis)	t Within a Wetland?

roject/Site: Gateway Pacific To Applicant/Owner: Pacific Investigator: M. Gray, E. Chris	nternational Terminal				Date: 20-Mar-07 County: Whatcom State: Washington
Do Normal Circumstances Is the site significantly dis Is the area a potential Pro (If needed, explain on	turbed (Atypic oblem Area?		ation)	Yes No No	Community ID: Transect ID: z-L47 Plot ID: z-L47-UP-05
EGETATION	C-RRP-RVC-AVA			W. Land B. W. Carlotte	
3. Anthoxanthum odoratum 4. Festuca rubra 5. Holcus lanatus 6. Cynosurus cristatus 7. *Indicator prefix = assigned Percent of Dominant Species that a (excluding FAC-). Remarks: The sampling plot was re-	Herb Herb Herb Herb Herb Herb Herb Herb	FAC FAC UPL Gefined by FAC 007 and the ecies. 50%	5 10 25 25 10 1 1	9	Stratum Indicator % assigned by delineator, not defined by FWS. cies present in May. The March sampling g the May sampling wre FAC+, but the other
Recorded Data (Describe in F. Stream, Lake, or Tide Ga Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:		(in.)		☐ Water-Stained Lea ☐ Local Soil Survey ☐ FAC-Neutral Test ☐ Other (Explain in F	r 12 Inches s in Wetlands or more required): annels in Upper 12 Inches aves Data

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Gray, E. Christensen		Date: 20-Mar-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: Transect ID: Z-L47 Plot ID: Z-L47-UP-08
/EGETATION		
Dominant Plant Species 1. Poa sp. Herb NI 40 2. Grass sp. Herb NI 60 3. Ranunculus 10 4. 5.	9	Stratum Indicator %
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks:	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 Oxidized Root Cha Water-Stained Lea Local Soil Survey D FAC-Neutral Test Other (Explain in R	12 Inches in Wellands or more required): nnnels in Upper 12 Inches aves Data

axonomy	(Subgroup):	Typic hap	olorthods				Fie Cor	firm Mapped T		
								75.7	(50)	
ofile Des epth iches)	cription: Horizon	Matrix C (Munse		Mottle Co		Mottle Abur Size/Contrast		Texture, C Structure, e	oncretions, etc.	,
0-10	A	10YR	2/2		None	/	None	Silt Loai	m	
10-	В	10YR	6/2	10YR	5/8	5% /	Distinct	Sandy L	oam	
	•		0.000.000			/				
	-							_		2 11074
	· 	-								200000
dric Soil	Indicators:									
	stosol			1	Concretio	ns				
H	stic Epipedoi ulfidic Odor	0		1	L High Orga	anic Content in S streaking in Sand	Surface La	yer in Sandy S	oils	
A	quic Moisture	Regime		-		a caking in can	ay oons			
	- d! A	ritogino		400	_ Listed on	Local Hydric Soi	ls List			
G	educing Con- leyed or Low	ditions	olors	1	Listed on Listed on	Local Hydric Soi National Hydric : plain in Remarks	Soils List			
∏ G	educing Con- leyed or Low	ditions	olors	İ	Listed on Listed on	National Hydric :	Soils List			
⊥⊥G	educing Con- leyed or Low	ditions	olors	İ	Listed on Listed on	National Hydric :	Soils List			
∏_G	educing Con- leyed or Low	ditions	olors	Ė	Listed on Listed on	National Hydric :	Soils List			
⊥⊥G	educing Con leyed or Low	ditions	olors	ŧ	Listed on Listed on	National Hydric :	Soils List			
⊥⊥G	educing Cond leyed or Low	ditions	olors	-	Listed on Listed on	National Hydric :	Soils List			
⊥⊥G	educing Cond leyed or Low	ditions	olors		Listed on Listed on	National Hydric :	Soils List			
⊥⊥G	educing Cond leyed or Low	ditions	olors		Listed on Listed on	National Hydric :	Soils List			
⊥⊥G	educing Condeyed or Low	ditions	olors		Listed on Listed on	National Hydric :	Soils List			
⊥⊥G	educing Condeyed or Low	ditions	olors		Listed on Listed on	National Hydric :	Soils List			
G marks:	leyed or Low	ditions -Chroma Co			Listed on Listed on	National Hydric :	Soils List			
G marks:	educing Con- leyed or Low	ditions -Chroma Co			Listed on Listed on	National Hydric :	Soils List			
G marks: ΓLΑΝ	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric :	Soils List			
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Within a Watle		
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Vithin a Wetlar	nd?	
TLAN drophyti tland H dric Soil	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Vithin a Wetlar	nd?	
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Vithin a Wetlar	nd?	
TLAN drophyti tland H dric Soil	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Víthin a Wetlar	nd?	
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Vithin a Wetlar	nd?	
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Vithin a Wetlar	nd?	
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Vithin a Wetlar	nd?	
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Vithin a Wetlar	nd?	
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Vithin a Wetlar	nd?	
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List	Vithin a Wetlar	nd?	
TLAN	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List		,	
TLANI drophytietland H dric Soil	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List		oproved by HQUSA	CE 3/92
TLANI drophytietland H dric Soil marks:	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List		,	CE 3/92
TLANI drophytietland H dric Soil	D DETER	ditions -Chroma Co			Listed on Listed on	National Hydric s plain in Remarks	Soils List		,	CE 3/92

roject/Site: Gateway Pacific Terminal Applicant/Owner: Pacific International Terminals Investigator: M. Gray, E. Christensen		Date: 20-Mar-07 County: Whatcom State: Washington
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation) Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No No	Community ID: Transect ID: Z-L47 Plot ID: Z-L47-UP-09
/EGETATION		
Dominant Plant Species 1. Festuca 2. Taraxacum officinale 3. Plantago 4. Herb 4. Herb 5. Herb *Indicator prefix = assigned by delineator, not defined by FWS. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	9	Stratum Indicator %
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Oepth to Saturated Soil: None (in.) Remarks:	Wetland Hydrology Indicator Primary Indicators: Inundated Saturated in Upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Secondary Indicators (2 of Oxidized Root Chate) Water-Stained Lear Local Soil Survey Deposits FAC-Neutral Test Other (Explain in Recognitions)	12 Inches in Wetlands or more required): nnels in Upper 12 Inches ves

0-18	Α		Mottle Colors st) (Munsell Moist)	Mottle Abund Size/Contrast	ance/	Texture, Concretions, Structure, etc.	
		10YR 3/2	Non	ne /	None	Silt Loam	200-100 - 100-100
				<i></i> /-			
lydric Soll Ind	licators:	CONT. ACT.		***********			7
Redu Gley	dric soil inc	itions Chroma Colors dicators are not	List	ted on Local Hydric Soils ted on National Hydric So ner (Explain in Remarks)	List		
TLAND		MINATION Present?	- 140° - 31°				The state of the s
lydrophytic V Vetland Hydro lydric Soils P	ology Pres	ent?	Vec	Is this Sampling	g Point W	/ithin a Wetland?	
Vetland Hydro	ology Pres	ent?	Yes	Is this Sampling	g Point W	/ithin a Wetland?	
Vetland Hydro lydric Soils P	ology Pres	ent?	Yes	Is this Sampline	g Point W	/ithin a Wetland?	

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

roject/Site: Gateway Pacific Applicant/Owner: Pacific Investigator: M. Chambers,	International Terminals	S		Date: 15-Jun-06 County: Whatcom State: Washington
Do Normal Circumstance Is the site significantly di Is the area a potential Pi (If needed, explain on	sturbed (Atypic roblem Area?		n)? No No	Community ID: Upland Forest Transect ID: Z-L4 Plot ID: Z-L4-PU-01
EGETATION	e production	20	7: Subsection in	en en en en en en en en en en en en en e
Remarks: Creeping buttercup (Ran	Tree Tree Shrub Tree Shrub Shrub I Shrub I Herb I d by delineator, not de	FACU+ 29 FACH 30 FACU 20 efined by FWS. AC	9. Physocarpus capitatus 10. Rubus armeniacus 11. Galium aparine 12. Rubus ursinus 13	Stratum Indicator %0 Shrub FACW- 10 Shrub FACU 40 Herb FACU 45 Shrub FACU 25 assigned by delineator, not defined by FWS.
Recorded Data (Describe in F. Stream, Lake, or Tide Gat Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil:		(in.) (in.) (in.)	Sediment Deposit Drainage Patterns Secondary Indicators (2	er 12 Inches ts s in Wetlands 2 or more required): annels in Upper 12 Inches aves Data
Remarks:			-1	

	paraun):	Aquandic endoaqual	fs		d Observations firm Mapped Type? No
	3. 2-17			Con	minimapped Type (140
rofile Descript epth nches) Ho	ion: rizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-10	Α	7.5YR 4/6	10YR 5/8	/ Faint	Silt Loam

			- /	1.	
				- 	<u> </u>
				<i>I</i>	
	xymoroni	c features in the unn	er 12 inches indicate tha	at hydric soils are present i	in the sampling point, but the soil matrix i
lighte	xymorpni er than mo	c features in the upp ost hydric soils in the	er 12 inches indicate tha e study area.	at hydric soils are present i	in the sampling point, but the soil matrix i
lighte ETLAND D ydrophytic Veg /etland Hydrok ydric Soils Pre	ETERN getation Pogy Prese	INATION resent?	er 12 inches indicate that study area.	at hydric soils are present in the second in	
ighte TLAND D ydrophytic Veg /etland Hydrok ydric Soils Pre emarks: Base	ETERM getation Pogy Presessent?	MINATION resent?	No No No	is this Sampling Point W	Vithin a Wetland?
TLAND D ydrophytic Veg fetland Hydrolo ydric Soils Pre emarks: Base	ETERN getation Pogy Presessent?	MINATION resent?	No No No	is this Sampling Point W	

Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.) Dominant Plant Species	nty: Whatcom 9: Washington
Dominant Plant Species 1. Carex obnupta 1. Carex obnupta 2. Rubus spectabilis 3. Thuja plicata 4. Alnus rubra 5. Athyrium filix-femina 6. Unid'd sp. 1. Herb 1. MI 5. Herb 1. MI 5. Herb 1. MI 5. Herb 1. MI 5. MI 5. MI 5. MI 5. MI 5. MI 5. MI 5. MI 5. MI 5. MI 5. MI 5. MI 6. Unidid sp. 1. Herb 1. MI 5. MI 5. MI 6. Unidid sp. 1. Athyrium filix-femina 6. Unidid sp. 1. Athyrium filix-femina 6. Unidid sp. 1. Herb 1. MI 5. MI 5. MI 6.	munity ID: PSS sect ID: Z-L5 ID: Z-L5-PW-01
1. Carex obnupta	
☐ Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: ☐ Stream, Lake, or Tide Gauge Primary Indicators: ☐ Aerial Photographs ☐ Inundated ☐ Other ☐ Saturated in Upper 12 Inch ✓ No Recorded Data Available ✓ Water Marks	y delineator, not defined by FWS.
☐ Stream, Lake, or Tide Gauge Primary Indicators: ☐ Aerial Photographs ☐ Inundated ☐ Other ☐ Saturated in Upper 12 Inch ☑ No Recorded Data Available ☑ Water Marks	
Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: None Sediment Deposits Depth of Surface Patterns in Wetla Secondary Indicators (2 or more Cin.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks	

I axonomy	(Subgroup):	Aquandic endoaqual	lfs		d Observations firm Mapped Type? Yes
rofile Des Depth inches)	scription; Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-10	A	10YR 3/2	None	/ None	Sandy Loam
				/	
				/	
				- <u></u>	= :=
			-:		
H S A	stosol stic Epipedon ulfidic Odor quic Moisture educing Cond leyed or Low-	Regime	Organic S Listed on I Listed on I	ns nic Content in Surface Lay treaking in Sandy Soils Local Hydric Soils List National Hydric Soils List Islain in Remarks)	er in Sandy Soils
		dicators are not prese	nt.		
TLAN ydrophyti etland H		MINATION Present? ent?	Yes Yes No	ls this Sampling Point W	rithin a Wetland?
TLAN ydrophyti /etland H ydric Soil emarks:	D DETER C Vegetation I ydrology Pres s Present?	MINATION Present? ent?	Yes Yes No	Processing in the control of the processing and an experience where the	lithin a Wetland? Yes
TLAN ydrophyti /etland H ydric Soil emarks:	D DETER C Vegetation I ydrology Pres s Present? Based on the a wetland.	MINATION Present? ent?	Yes Yes No vtic vegetation, wetland h	Processing in the control of the processing and an experience where the	p

roject/Site: Gateway Pacific Tern Applicant/Owner: Pacific Inter Investigator: K. Dunkin, M. Chan	national Terminals		Date: 06-Sep-06 County: Whatcom State: Washington
Do Normal Circumstances of the site significantly disturble the area a potential Probeside (If needed, explain on research)	rbed (Atypical Situation lem Area?	Yes No No	Community ID: Upland Forest Transect ID: Z-L9 Plot ID: Z-L9-UP-01
Percent of Dominant Species that are (excluding FAC-). Remarks: Sparse cover of Canada thist were dominant in the sampli	Herb NI delineator, not defined by FWS. OBL, FACW or FAC delineator arvense) occurs in the	9	assigned by delineator, not defined by FWS.
PROLOGY Recorded Data (Describe in Rem Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit:		Wetland Hydrology Indicate Primary Indicators: Inundated Saturated in Uppe Water Marks Drift Lines Sediment Deposi Drainage Patterns Secondary Indicators (2 Oxidized Root Ch Water-Stained Le Local Soil Survey FAC-Neutral Test	er 12 Inches ts s in Wetlands 2 or more required): nannels in Upper 12 Inches naves Data

axonomy	(Subgroup):	Aqualpic	haplorthods				bservation Mapped T		Yes
rofile Des epth nches)	cription; Horizon	Matrix C		Mottle Colors (Munsell Moist)	Mottle Abundan Size/Contrast		Texture, C	Concretic	ns,
0-3	Α	10YR	4/4	None	/ Nor	 ne			
3-18	В	10YR	4/4	None	/ No	ne		m (grav	elly)
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☐ Hi	Indicators:								
St.	stosol stic Epipedon Ilfidic Odor juic Moisture educing Conc eyed or Low-	Regime litions Chroma Co	304 34.24	Organic St Listed on L Listed on N	nic Content in Surfa treaking in Sandy S Local Hydric Soits Li National Hydric Soils blain in Remarks)	oils ist s List	in Sandy S	ioils	
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