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SUPPLEMENTAL PUD EXHIBITS

12-9-24

12-6-24

Florence Streets Wetland Delineation

Florence, OR Wetland Delineation

Prepared for:
City of Florence
November 2024



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Introduction

Rabe Consulting was contracted by the City of Florence to perform a wetland investigation and determination of the property located in Florence (Lane County), Oregon. Preliminary pre-field review of the study area indicated the presence of potential wetlands based on aerial photographs and National and Local Wetland Inventory maps.

This report presents the results of the Florence Streets Wetland Determination, which was conducted by Andréa Rabe of Rabe Consulting on October 9, 2024. Andréa Rabe, a Professional Wetland Scientist, has 24 years of experience conducting wetland delineations. She has been trained in the use of the Army Corps of Engineers Western Mountains, Valleys and Coast Region Supplement for conducting wetland delineations.

This report documents the investigation, best professional judgment, and conclusions of the investigators. It should be considered a Preliminary Jurisdictional Delineation and used at your own risk until it has been reviewed and approved in writing by the Oregon Department of State Lands and U.S. Army Corps of Engineers. The overall project objective is to develop the parcel for commercial uses.

A. Landscape Setting and Land Use

The study area is 3.03 acres in Florence, Oregon in Lane County (Appendix A: Figure 1). The legal description of the study area encompasses street right of ways in T18S R6W Section 27 (Appendix A: Figure 2).

The study area is currently vacant open space with dense shrubs and woodland. The area to the north is developed as residential. The area to the south has commercial developments. The study area is extensions of 10th Street, 11th Street, and Greenwood Street. The study area includes the proposed future streets right of ways.

During the field visit on October 9, 2024 site visit, the conditions were rainy at the end of the growing season.

B. Site Alterations

There does not appear to be site alterations within the study area. The study area does not appear to have topographic changes (i.e. leveling, grading).

C. Precipitation Data and Analysis

The closest weather station to the project that contains the most complete record for the creation of the WETS table is at HONEYMAN STATE PARK, OR located approximately 3.5 miles south of the study area. The area received 0.23 inches of precipitation from September 25 to October 8, 2024, the 14 days prior to the field visit. There was 0.02 inches of precipitation on October 9, 2024, the day of the field visit. The area experienced relatively normal precipitation levels in summer and autumn.

The following is based on the WETS Table for the HONEYMAN STATE PARK, OR station.

Table 1 - Summary of precipitation between July and October 9, 2024, at the HONEYMAN STATE PARK, OR weather station (data accessed from AgACIS database). Data was accessed from the weather station closest to the site with the most complete WETS table record.

Summary of Precipitation between July - October 9, 2024, and comparison to 1992-2021 WETS Table							
Month	Total Precipitation (in.)	Normal Range WETS (in.)	Within Normal Range?	Monthly Average (in.)	Departure From Average		
July	M0.42	0.17 – 0.57	Yes	0.56	- 0.14		
August	0.71	0.27 – 0.77	Yes	0.66	+ 0.05		
September	2.77	0.97 – 2.99	Yes	2.47	+ 0.3		
October 1-9 (prorated)	1.63	0.97 – 1.96	Yes	1.62	+ 0.01		

Table 2 - Summarization of WETS table for 1992-2021 HONEYMAN STATE PARK., OR (the most complete WETS table record for the region).

WETS Station: ONEYMAN STATE PARK, OR									
uested years: 1992 - 2021									
Month	Avg Max Temp	Avg Min Temp	Avg Mean Temp	Avg Precip	30% chance precip less than	30% chance precip more than	Avg number days precip 0.10 or more	Avg Snowfall	
Jan	50.3	38.3	44.3	10.43	7.96	12.13	15	0.1	
Feb	52.0	38.3	45.2	8.36	5.84	9.93		0.1	
Маг	54.6	38.9	46.7	8.05	5.87	9.48	14	0.0	
Apr	58.2	41.3	49.7	5.89	4.32	6.92	11	0.0	
May	62.2	45.7	53.9	2.95	1.53	3.59	7	0.0	
Jun	65.0	49.0	57.0	2.41	1.21	2.95	4	0.0	
Jul	68.0	50.5	59.2	0.56	0.17	0.57	1	0.0	
Aug	68.3	51.4	59.8	0.66	0.27	0.77	1	0.0	
Sep	67.0	49.8	58.4	2.47	0.97	2.99	3	0.0	
Oct	61.0	45.4	53.2	5.57	3,36	6.75	9	0.0	
Nov	53.8	41.5	47.6	9.89	7.23	11,63		0.0	
Dec	49.0	37.7	43.4	11.85	9.00	13.80	15	0.0	
Annual:						FI			
Average	59.1	44.0	51.5	- 2	18	- 61	-		
Total	-	-		69.07			-	0.3	

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D. Methods

Rabe Consulting conducted a wetland delineation within the study area which encompasses road right of ways. The methods used to delineate the study area followed the Western Mountains, Valleys, and Coast Regional Supplement.

The delineation was conducted on October 9, 2024, using the criteria outlined in the ACOE Manual as supplemented by the Western Mountains, Valleys, and Coast Regional Supplement. Western Mountains, Valleys and Coast Wetland Delineation data forms were used to record soils, vegetation, and hydrology data at sample plots within the study area (Appendix B).

Data plots were used to test for wetland presence within the study area. Representative plots are included in the report. Plot locations within the study area were chosen based on location of the former cranberry bogs, aerial imagery, soil types, and observations of hydrology and topography during the field visit. Photo points were also taken with the direction of the photo noted. The study area boundary, photo points, and data plots were identified with a Trimble Juno 3B GPS unit with DGNSS/SBAS, with post-processing accuracy of 0.425 m.

E. Description of All Wetlands and Other Non-Wetland Waters

A wetland drainage crossed from north to south through the study area. The majority of the wetland drainage was outside of the wetland, with two small portions crossing into the wetland. The drainage continues south, to the west of the study area through a culvert under 9th Street and to the north through a residential area.

Wetland 1

The northern portion of the wetland drainage crossing into the study area is Wetland 1, 0.133 acres. Wetland 1 is classified as a riverine (R4SBC). The wetland is a perennial wetland drainage which extends to the southwest and northeast outside of the study area. The hydrologic

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input is direct precipitation and runoff for the immediately surrounding area. The wetland may be fish bearing. There are anadromous fish passage downstream, therefore anadromous fish are not located in the wetland.

Wetland 2

The southern portion of the wetland drainage crossing into the study area is Wetland 2, 0.004 acres. Wetland 2 is classified as a riverine (R4SBC). The wetland is a perennial wetland drainage which extends to the west outside of the study area. The hydrologic input is direct precipitation and runoff for the immediately surrounding area. The wetland may be fish bearing. There are anadromous fish passage downstream, therefore anadromous fish are not located in the wetland.

Upland Areas

The remainder of the study area (2.893 acres) consists of uplands. The upland portion of the study area did not exhibit hydrologic indicators or concave topography. The upland exhibits dense trees and shrubs.

F. Deviation from LWI or NWI

The Local Wetland Inventory (LWI) covers this area. The LWI maps indicate there is a riverine wetland feature to the west of the study area, crossing the study area just north of the delineated wetland drainage. The delineation depicts this feature but in a slightly different location. The mapping difference is likely due to the dense vegetation.

A review of the National Wetlands Inventory Map (Appendix A – Maps, Figure 3) indicates the presence of a riverine wetland within the study area, to the south and east of the wetland drainage identified during the site visit. The scale and methodology used to produce the NWI map (high altitude aerial photography interpretation) imposes some limitations on the accuracy of the NWI maps. It is highly recommended to field check NWI map data, as was done in this case.

The wetland delineation identified a wetland drainage in a slightly different location than the NWI maps. The mapping discrepancy is likely due to dense vegetation obscuring the wetland footprint in aerial photographs used for NWI mapping.

G. Mapping Methods

All data plots, study area boundaries, and wet feature boundaries were mapped using a Trimble Juno 3B GPS unit with DGNSS/SBAS, with post-processing accuracy of 0.425 m horizontal error (number of satellites 6). Data was post-processed and maps were generated utilizing ArcGIS.

H. Jurisdictional Information

Two wetland portions were identified in the study area, which are likely considered jurisdictional according to the DSL or ACOE guidelines.

I. Results and Conclusion

The study area (3.03 acres) contains upland (2.893 acres), two vegetated wetland drainages (Wetland 1, 0.133 acres; Wetland 2, 0.004 acres) and no waterways.

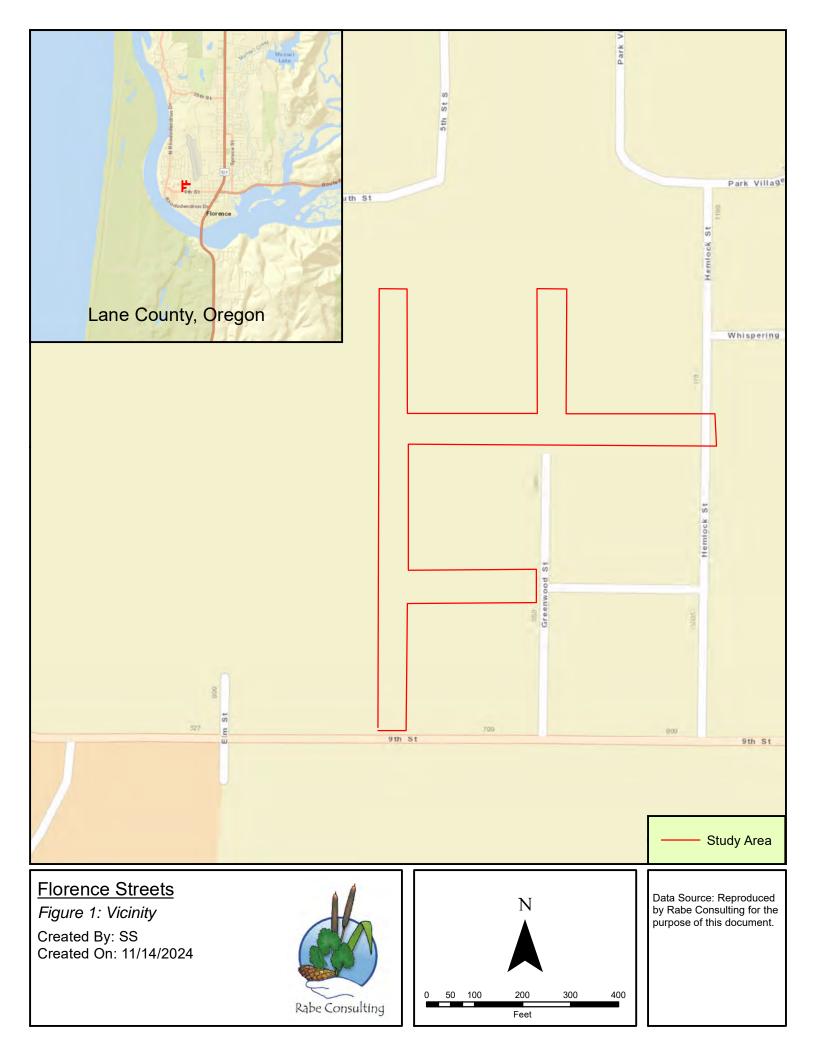
J. Disclaimer

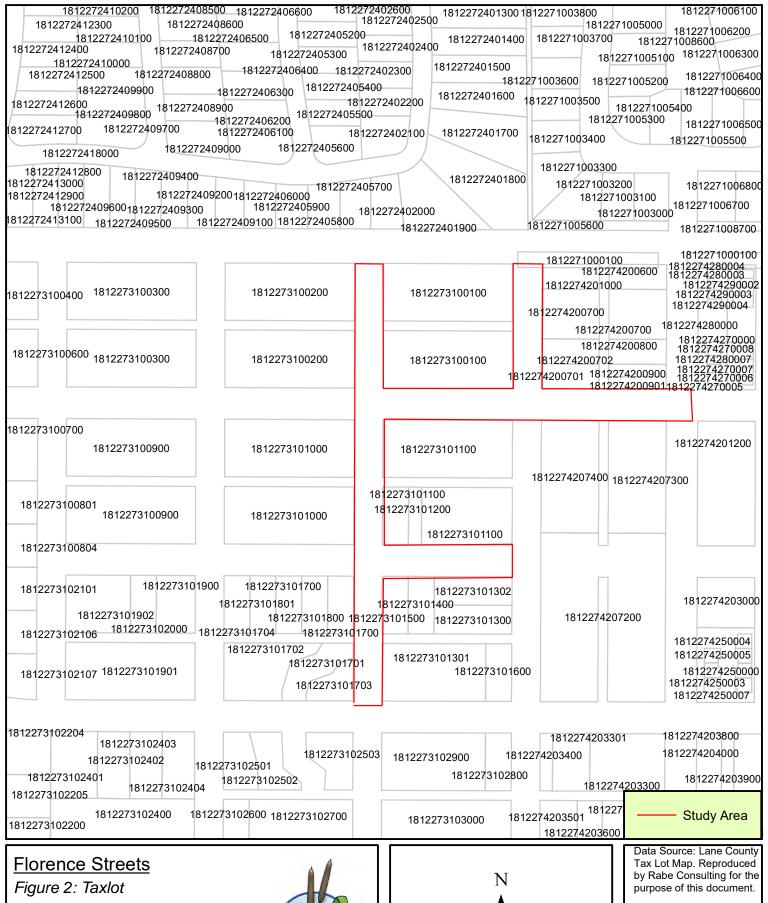
This report documents the investigation, best professional judgment, and conclusions of the investigator. It is correct and complete to the best of my knowledge. It should be considered a Preliminary Jurisdictional Determination and used at your own risk until it has been reviewed and approved in writing by the Oregon Division of State Lands in accordance with OAR 141-090-0005 through 141-090-0055.

Respectfully submitted,

Andréa Rabe, PWS

Appendix A Maps

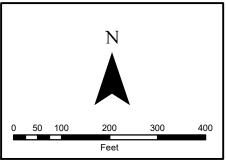




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FOR ASSESSMENT AND TAXATION ONLY

N.E.1/4 S.W.1/4 SEC. 27 T.18S. R.12W. W.M. Lane County

18122731 FLORENCE

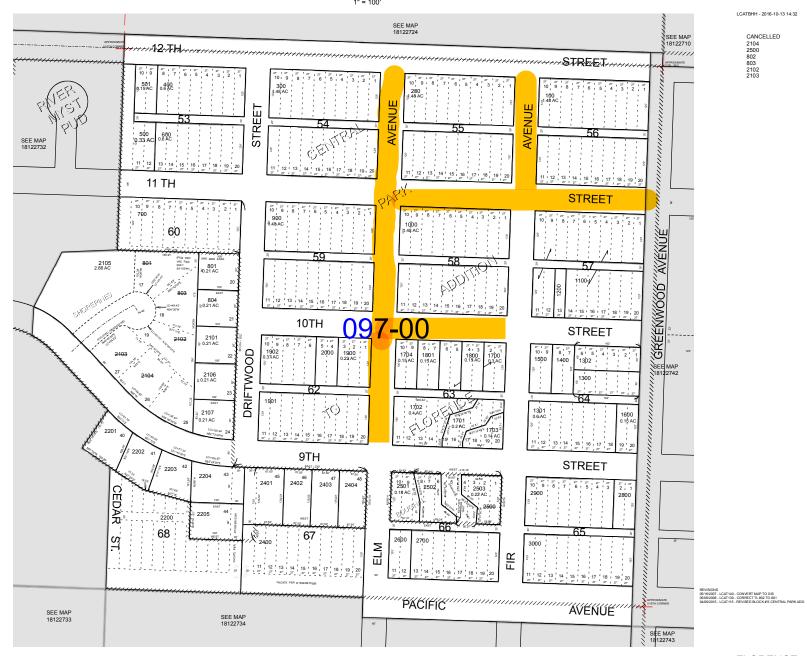
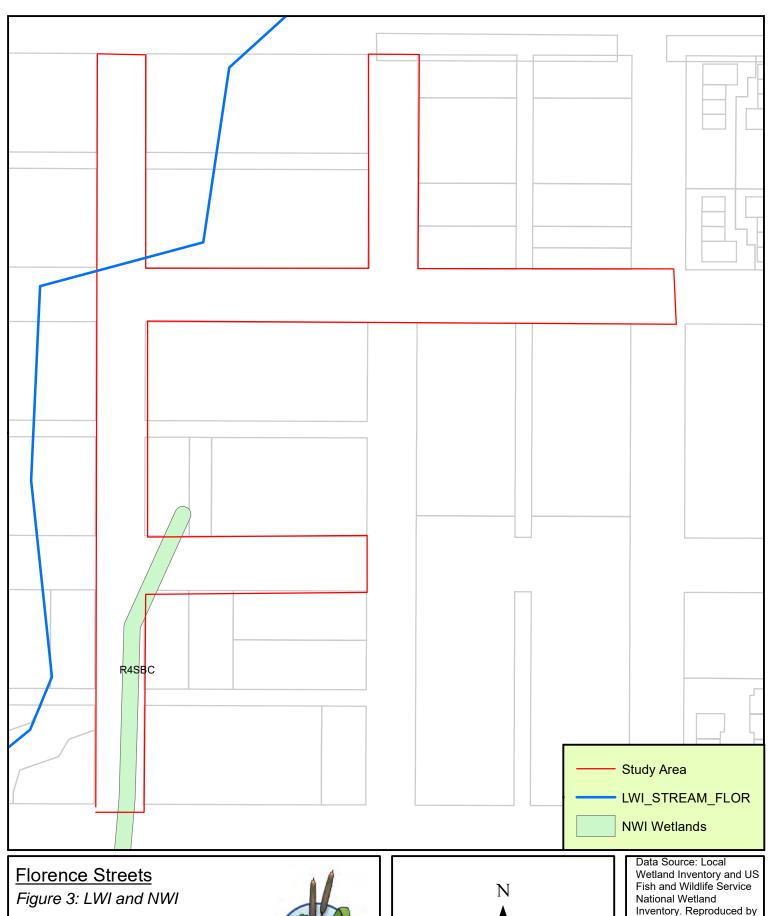


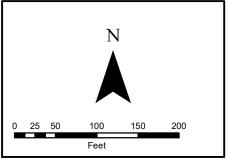
FIGURE 2a: ORMAP TaxLot Map

FLORENCE 18122731



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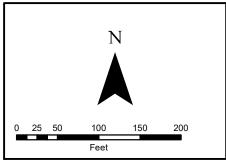


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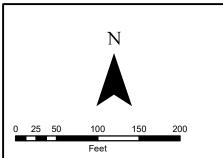


Florence Streets

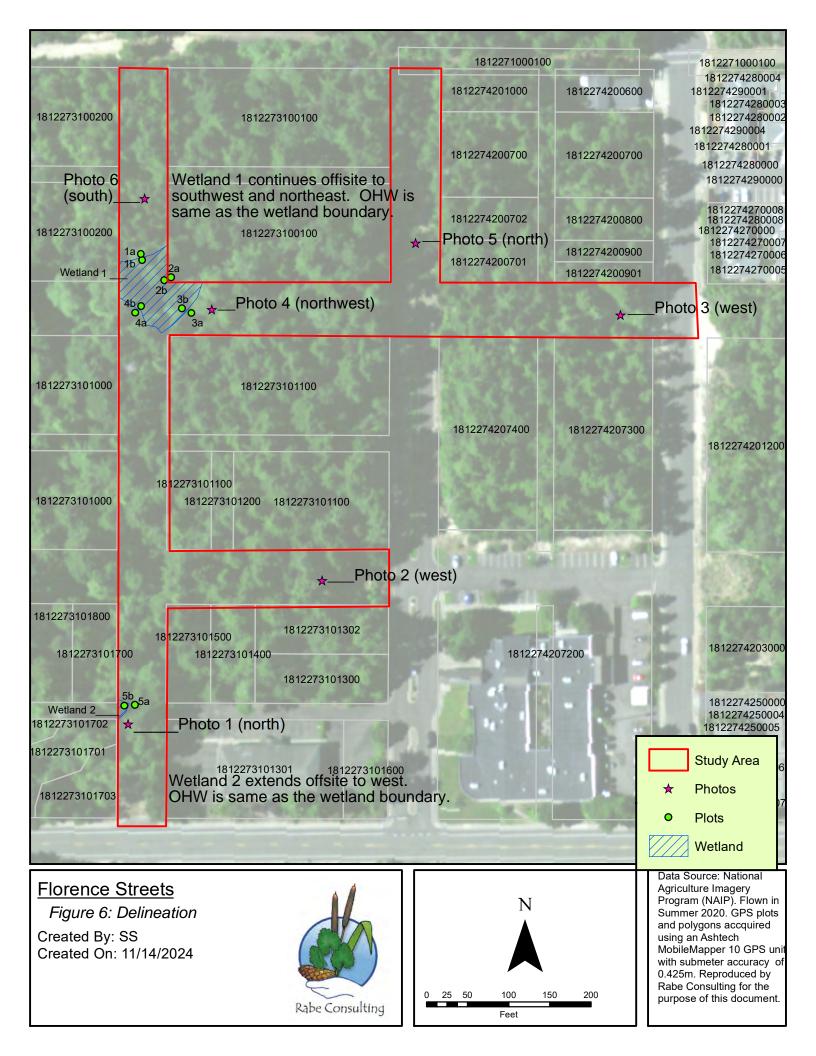
Figure 5: Aerial

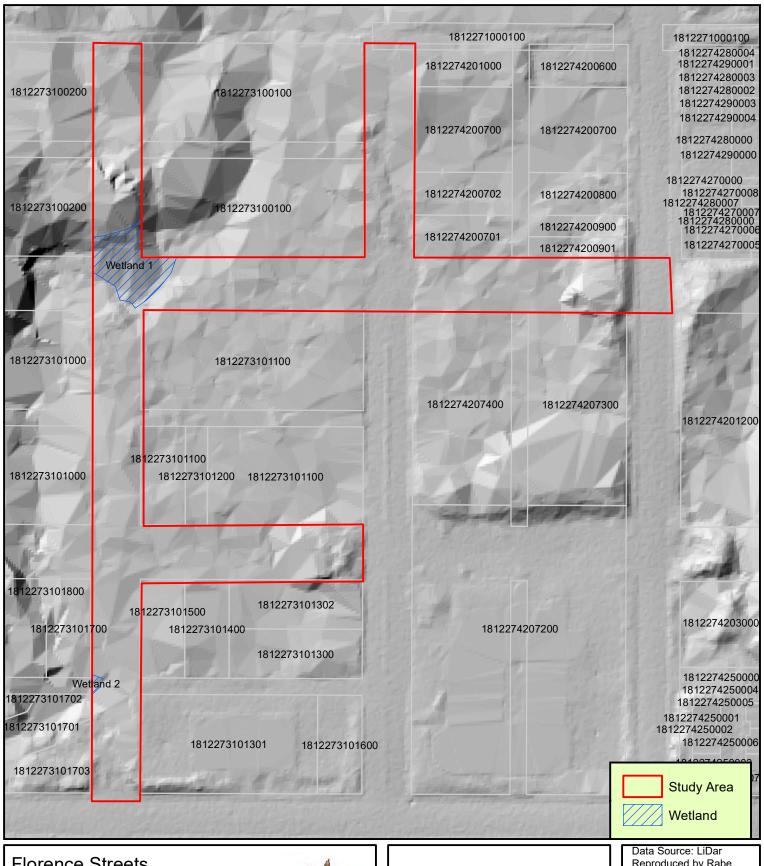
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Data Source: National Agriculture Imagery Program (NAIP). Flown in Summer 2020. Reproduced by Rabe Consulting for the purpose of this document.





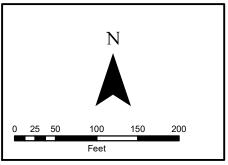
Florence Streets

Figure 7: Lidar

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Appendix B Data Forms

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3: the proponent agency is CECW-COR

Project/Site: Street extension
Investigator(s): Robe Section, Township, Range: TIBS RIZW 527 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Conwey Slope (%) Subregion (LRR): CRA Lat: 42,976568 Long: -124, 1/50 Datum: N Soil Map Unit Name: /3/C Ricley - Kearting Silt Logges NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes Y No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No No No No Wetland Hydrology Present? Yes No
Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Commun. Slope (%) Subregion (LRR): LRX Lat: 43,976568 Long: -124, 1150 Datum: N Soil Map Unit Name: 131C Pickey - Keerting Silt Loems NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No Soil Is the Sampled Area within a Wetland? Yes No Soil Present? Yes N
Subregion (LRR): CRA Lat: 42,976568 Long: -124, 1/50 Datum: Note of the state of the state of the state of year? Yes No (If no, explain in Remarks.) Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are vegetation or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features Hydrophytic vegetation Present? Yes No Soil Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No Soil Present? Yes Soil Presen
Soil Map Unit Name: /3/C Pickey - Keerting Silt Joems NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes Y No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No No Normal Circumstances" present? Yes No No No Normal Circumstances present? Yes No Normal Circumstances pres
Are climatic / hydrologic conditions on the site typical for this time of year? Are vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No Is the Sampled Area Hydric Soil Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No VEGETATION — Use scientific names of plants. Tree Stratum (Plot size: 10 m 2)
Are climatic / hydrologic conditions on the site typical for this time of year? Yes Y No (If no, explain in Remarks.) Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No No Normal Circumstances present? Yes No Normal Circumstances present?
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No
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SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features Hydrophytic Vegetation Present? Yes No D Is the Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No D Remarks: UPSUPE OF WETLAND Aracnage VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 10 m 2) Absolute Species? Status Dominant Indicator Species? Status Dominant Species That 1. Pseudot suga mentics: SD TAY FACU Number of Dominant Species That
Hydrophytic Vegetation Present? Yes No Within a Wetland? Yes No X Wetland Hydrology Present? Yes No Within a Wetland? Yes No X Remarks: VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 10 m 2) Absolute Dominant Indicator Species? Status Dominance Test worksheet: 1. Pseudot suga mentici SD FACU Number of Dominant Species That
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Wetland Hydrology Present? Yes No F Remarks: UPSLOPE OF WITTAND drawnage VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 10m²) Absolute Dominant Indicator Species? Status 1. Pseudot suga mentics SD TY FACU Number of Dominant Species That
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1. Pseudotsuga mentles, 80 # y FACU Number of Dominant Species That
3 Total Number of Dominant Species Across All Strata:
=Total Cover Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size:) Are OBL, FACW, or FAC:
1. Kutos Gaulthingshally 50 y facu
2. Vaccinium Ovalifoiium 30 9 UPO Prevalence Index worksheet:
3Total % Cover of: Multiply by:
4 OBL species x1 =
5. FACW species x 2 = FAC species x 3 =
775
Hudrophysic Vegetation Indicators
C Double Total State Management of the Company of t
2 Descious Tastic SEOV
a. Downstraw Indian Co.
9. 4 - Morphological Adaptations ¹ (Provide sup
10. data in Remarks or on a separate sheet
11. 5 - Wetland Non-Vascular Plants ¹
=Total Cover Problematic Hydrophytic Vegetation¹ (Expl
Woody Vine Stratum (Plot size:) 1. Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.
2
Total Cover Hydropnytic
% Bare Ground in Herb Stratum Vegetation Present? Yes No
Remarks:

epth Matrix	h needed to docum Redox F		tor or c	onfirm the	absence of i	iluicators.j		
nches) Color (moist) %	Color (moist)	% Type ¹	Loc ²	Tex	tura	Remarks		
	Color (moist)	70 1900				Remarks		
1000			_		Hev_			
7-20 7.5 YRYZ 100				Sa	na _			
ype: C=Concentration, D=Depletion, RM=F	Reduced Matrix CS=	Covered or Co	- Pated S	and Grains	² Locatio	n: PL=Pore Lining, M=	Matrix	
ydric Soil Indicators: (Applicable to all LI			Julieu Ci	and Orams.		or Problematic Hydric		
Histosol (A1)	Sandy Gleyed					ick (A10) (LRR A, E)	coms .	
Histic Epipedon (A2)	Sandy Redox					nganese Masses (F12)	(LRR D	
Black Histic (A3)	Stripped Matr				_	ent Material (F21)	,	
Hydrogen Sulfide (A4)		Mineral (F1) (except	MLRA 1)		allow Dark Surface (F2)	2)	
1 cm Muck (A9) (LRR D, G)	Loamy Gleyer					explain in Remarks)		
Depleted Below Dark Surface (A11)	Depleted Mat							
Thick Dark Surface (A12)	Redox Dark S	Surface (F6)			3Indicators o	f hydrophytic vegetation	and	
Sandy Mucky Mineral (S1)	Depleted Dark	k Surface (F7)			wetland	hydrology must be pres		
2.5 cm Mucky Peat or Peat (S2) (LRR G)	Redox Depres	ssions (F8)			unless d	listurbed or problematic		
estrictive Layer (if observed):								
contiente Layer (il observea).								
Type:								
	_			Hydric So	oil Present?	Yes	No.	
Type: Depth (inches):	Water-Stained	ly) d Leaves (B9) ((except		Secondary II	Yes	uired)	
Type: Depth (inches): emarks: /DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1)	Water-Stained	d Leaves (B9) (2, 4A, and 4B)	(except		Secondary II Water-S 4A, a	ndicators (2 or more reg tained Leaves (B9) (ML	uired)	
Type: Depth (inches): emarks: POROLOGY Petland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained	d Leaves (B9) (2, 4A, and 4B) 1)	(except		Secondary II Water-S 4A, a Drainage Dry-Sea	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2)	uired)	
Type: Depth (inches): emarks: POROLOGY Petland Hydrology Indicators: cimary Indicators (minimum of one is require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul	d Leaves (B9) (2, 4A , and 4B) 1) ebrates (B13) fide Odor (C1)			Secondary II Water-S 4A, a Drainage Dry-Sea Saturatio	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Image	uired)	
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Type: Depth (inches): emarks: POROLOGY Tetland Hydrology Indicators: rimary Indicators (minimum of one is require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on Li Reduced Iron (C	iving Ro C4) led Soils	pots (C3)	Secondary II Water-S 4A, a Drainage Dry-Sea Saturatic Geomore Shallow FAC-Net	ndicators (2 or more required tained Leaves (B9) (ML and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagination (D2) Aquitard (D3) utral Test (D5)	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Setland Hydrology Indicators: cimary Indicators (minimum of one is require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C eduction in Till ressed Plants (iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) atral Test (D5) Ant Mounds (D6) (LRR A	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C eduction in Till ressed Plants (iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required tained Leaves (B9) (ML and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagination (D2) Aquitard (D3) utral Test (D5)	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Tetland Hydrology Indicators: rimary Indicators (minimum of one is require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C eduction in Till ressed Plants (iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) atral Test (D5) Ant Mounds (D6) (LRR A	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Tetland Hydrology Indicators: Imary Indicators (minimum of one is require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) eld Observations:	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on Li Reduced Iron (Called Leaves) reduction in Till ressed Plants (In in Remarks)	iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) atral Test (D5) Ant Mounds (D6) (LRR A	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Petland Hydrology Indicators: rimary Indicators (minimum of one is require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) eld Observations: urface Water Present? Yes	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explain	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C reduction in Till ressed Plants (in in Remarks)	iving Ro C4) led Soils	pots (C3)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more required Leaves (B9) (ML and 4B) a Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) atral Test (D5) Ant Mounds (D6) (LRR A	uired) RA 1, 2	
Type: Depth (inches): emarks: POROLOGY Petland Hydrology Indicators: cimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) eld Observations: urface Water Present? Yes ater Table Present? Yes	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair	d Leaves (B9) (d., 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C reduction in Till ressed Plants (I n in Remarks) pth (inches): pth (inches):	iving Ro C4) led Soils	pots (C3) s (C6) RR A)	Secondary In Water-S 4A, a Drainage Dry-Sea Saturatio Geomor Shallow FAC-Nee Raised A Frost-He	ndicators (2 or more registration of Leaves (B9) (ML and 4B) as Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) autral Test (D5) ant Mounds (D6) (LRR Aeave Hummocks (D7)	uired) RA 1, 2	
Type: Depth (inches): emarks: PROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) eld Observations: Irface Water Present? Yes	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair	d Leaves (B9) (2, 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on L Reduced Iron (C reduction in Till ressed Plants (in in Remarks)	iving Ro C4) led Soils	pots (C3) s (C6) RR A)	Secondary III Water-S 4A, a Drainage Dry-Sea Saturatic Geomor Shallow FAC-Net Raised A	ndicators (2 or more registration of Leaves (B9) (ML and 4B) as Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) autral Test (D5) ant Mounds (D6) (LRR Aeave Hummocks (D7)	uired) RA 1, 2	
Type: Depth (inches): Permarks: Proposition (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) alter Table Present? Sediment Present? Sediment Deposits (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Sed Observations: Surface Water Present? Sediment Present Pr	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair No De No De No De	d Leaves (B9) (d., 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on Li Reduced Iron (C eduction in Till ressed Plants (in in Remarks) pth (inches): pth (inches):	iving Ro C4) led Soils D1) (LF	pots (C3) s (C6) RR A)	Secondary II Water-S 4A, a Drainage Dry-Sea Saturatio Geomon Shallow FAC-Nee Raised A Frost-He	ndicators (2 or more registration of Leaves (B9) (ML and 4B) as Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) autral Test (D5) ant Mounds (D6) (LRR Aeave Hummocks (D7)	uired) RA 1, 2	
Type: Depth (inches): Permarks: Proposition (Page 1) Depth (inches): Depth (page 2)	Water-Stained MLRA 1, 2 Salt Crust (31 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Stunted or Str Other (Explair No De No De No De	d Leaves (B9) (d., 4A, and 4B) 1) ebrates (B13) fide Odor (C1) cospheres on Li Reduced Iron (C eduction in Till ressed Plants (in in Remarks) pth (inches): pth (inches):	iving Ro C4) led Soils D1) (LF	pots (C3) s (C6) RR A)	Secondary II Water-S 4A, a Drainage Dry-Sea Saturatio Geomon Shallow FAC-Nee Raised A Frost-He	ndicators (2 or more registration of Leaves (B9) (ML and 4B) as Patterns (B10) son Water Table (C2) on Visible on Aerial Imaginic Position (D2) Aquitard (D3) autral Test (D5) ant Mounds (D6) (LRR Aeave Hummocks (D7)	uired) RA 1, 2	

U.S. Army Corps of Engineers OMB Control #: 0710-0024, Exp: 06/30/2024 Requirement Control Symbol EXEMPT: WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region (Authority: AR 335-15, paragraph 5-2a) See ERDC/EL TR-10-3; the proponent agency is CECW-COR Project/Site: STORT EXtension City/County: florence/lone Sampling Date: 10/09 State: O.Z. Sampling Point: Applicant/Owner: City of Florence Investigator(s): Rahe Section, Township, Range: TIBS REIZW S 27 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): 4 Subregion (LRR): <u>LRRA</u> Lat: <u>43.976547</u> Long: <u>-124.114994</u> Datum: <u>NAD83</u> Soil Map Unit Name: 131 C Ridley - Keating Silt loams NWI classification: N/A Are climatic / hydrologic conditions on the site typical for this time of year? Yes __X No ___ (If no, explain in Remarks.) Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No ___ Are Vegetation _____, Soil _____, or Hydrology _____naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? Yes Yes X No within a Wetland? Hydric Soil Present? Wetland Hydrology Present? Remarks: water present in bottom of deamage VEGETATION – Use scientific names of plants. Indicator Absolute Dominant Dominance Test worksheet: Tree Stratum (Plot size: 10m²) Status % Cover Species? Number of Dominant Species That FAC Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That 96 =Total Cover Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: 10 m²) 1. Rubus spetabilus 30 4 Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species ____ x 1 = _ x 2 = FACW species 45 x3= 345 FAC species 30 =Total Cover FACU species 30 x4=/3/0 (Plot size: /m²) Herb Stratum x 5 = Column Totals: 125 (A) \$65 (B) Prevalence Index = B/A = 3:21 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1

Problematic Hydrophytic Vegetation¹ (Explain)

Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present?

Remarks:

% Bare Ground in Herb Stratum

Woody Vine Stratum (Plot size:

Profile Description: (Describe to the depth	needed to document the indicator	or confirm the	absence of indic	ators.)
Depth Matrix	Redox Features	2,027		2000
(inches) Color (moist) %		oc ² Tex	ture	Remarks
01 104231,100		Dro	anc	
1-8 INVESU 95	540 V, 50 M	San		
8-20 10 40 1012 90	5/1057 10 0 1		1	
	<u> </u>	San	<u> </u>	
Type: C=Concentration, D=Depletion, RM=R	Reduced Matrix, CS=Covered or Coate	ed Sand Grains.	² Location: P	L=Pore Lining, M=Matrix.
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) 1 cm Muck (A9) (LRR D, G) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G)	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (exc Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	cept MLRA 1)	Iron-Mangar Red Parent I Very Shallov Other (Expla Indicators of hydroxymallor)	A10) (LRR A, E) tese Masses (F12) (LRR D) Material (F21) v Dark Surface (F22) tin in Remarks) drophytic vegetation and rology must be present, bed or problematic.
estrictive Layer (if observed):				
Type:	_			
Depth (inches):		Hydric So	il Present?	Yes Yo_
YDROLOGY				
Vetland Hydrology Indicators:	di abaak all that analy)		Canadan India	store (2 or more required)
rimany Indicators (minimum of one is require	u, check all that apply)	5.03		ators (2 or more required)
	Surface Water (A1) Water-Stained Leaves (B9) (exception of the Water Table (A2)			
Surface Water (A1)		cept		ed Leaves (B9) (MLRA 1, 2
Surface Water (A1) High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	cept	4A, and 4	IB)
Surface Water (A1) High Water Table (A2) Saturation (A3)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	cept	4A, and 4	tterns (B10)
Surface Water (A1) High Water Table (A2)	MLRA 1, 2, 4A, and 4B)	cept	4A, and 4 Drainage Pa Dry-Season	tterns (B10) Water Table (C2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)		Drainage Pa Dry-Season Saturation Vi	tterns (B10) Water Table (C2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	ng Roots (C3)	Drainage Pa Dry-Season Saturation Vi	tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livin	ng Roots (C3)	Drainage Pa Dry-Season Saturation Vi Geomorphic	tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livin Presence of Reduced Iron (C4)	ng Roots (C3) Soils (C6)	Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu FAC-Neutral	tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livin Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Stunted or Stressed Plants (D1) Other (Explain in Remarks)	ng Roots (C3) Soils (C6)	Drainage Pa Dry-Season Saturation Vi Geomorphic Shallow Aqu FAC-Neutral Raised Ant M	tterns (B10) Water Table (C2) isible on Aerial Imagery (C9 Position (D2) itard (D3) Test (D5)

Field	Observations:	
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(includes capillary fringe)

Surface Water Present?	Ye
Water Table Present?	Ye
Saturation Present?	Ye

Depth (inches): 16
Depth (inches): 10

Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region
See ERDC/FL TR-10-3: the proposent agency is CECW-COR

See ENDO/EL TR-10-3, the proponent agency is CECW-CON	/ / / / / / / / / / / / / / / / / / /
Project/Site: STreeT EY tension City/County: Flore	nee/Lane Sampling Date: 10/09
Applicant/Owner: City of Florence	State: OR Sampling Point: 2A
Investigator(s): Section, Township, Rain	nge: T185 R12W S 27
Landform (hillside, terrace, etc.): Terrace Local relief (concave, convergence)	ex, none): CONVEY Slope (%): 2
Subregion (LRR): LRRA Lat: 43.976491 Long: -	
Soil Map Unit Name: 131C Ridley - Keating Silt loans	NWI classification: N/A
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal C	Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, ex	
SUMMARY OF FINDINGS – Attach site map showing sampling point loc	
Hydrophytic Vegetation Present? Yes No Within a Wetland? Wetland Hydrology Present? Yes No	The state of the s
Remarks:	
1100/000	
Upslope of westland	
VEGETATION – Use scientific names of plants.	
Tree Stratum (Plot size: 10 m 2) Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Pseudotsuga menties, so y PACA	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3	Total Number of Dominant Species S Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 5mZ) 1. Goult Hoosia Shallon 30 U PACU	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1. Gaultheria Shallon DD Y FACY 2. Vaccinium oval ifolian 20 4 1190	Prevalence Index worksheet:
3.	Total % Cover of: Multiply by:
4.	OBL species x 1 =
5.	FACW species x 2 =
SO=Total Cover	FAC species x3=
Herb Stratum (Plot size:)	UPL species 20 x4 = 440
1,	UPL species 20 x 5 = 100 (B)
3.	Prevalence Index = B/A = 4
4.	
5.	Hydrophytic Vegetation Indicators:
6,	1 - Rapid Test for Hydrophytic Vegetation
7	2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
9.	4 - Morphological Adaptations (Provide supporting
10.	data in Remarks or on a separate sheet)
11.	5 - Wetland Non-Vascular Plants ¹
=Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	be present, unless disturbed of problematic.
1	Hydrophytic

Profile Description: (Describe to the de Depth Matrix		Features					
inches) Color (moist) %	Color (moist)	% Тур	e ¹ Loc ²	Text	ure	Remarks	
0-6 7.5 4846 100				-	Section 1	7 (5-11-411-14	
				0.	ganic		
6-20 7.5 45/2 100				Sa	maly_		
				_			
				_			
Type: C=Concentration, D=Depletion, RN				and Grains.		PL=Pore Lining, M	
Hydric Soil Indicators: (Applicable to all						Problematic Hydr	ic Soils':
Histosol (A1)		ed Matrix (S4	1)			k (A10) (LRR A, E)	
Histic Epipedon (A2)	Sandy Red	ox (S5)			Iron-Mang	ganese Masses (F12	(LRR D)
Black Histic (A3)	Stripped Ma	atrix (S6)			Red Parer	nt Material (F21)	
Hydrogen Sulfide (A4)	Loamy Muc	ky Mineral (F	1) (except	MLRA 1)	Very Shal	low Dark Surface (F	22)
1 cm Muck (A9) (LRR D, G)	Loamy Gley	ed Matrix (F:	2)		Other (Ex	plain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted M	atrix (F3)					
Thick Dark Surface (A12)	Redox Dark	Surface (F6)		3Indicators of h	hydrophytic vegetation	on and
Sandy Mucky Mineral (S1)	Depleted Da	ark Surface (F7)			ydrology must be pre	
2.5 cm Mucky Peat or Peat (S2) (LRR		ressions (F8)				turbed or problemat	
Restrictive Layer (if observed):		× × × × × × × × × × × × × × × × × × ×					
Type:							
				Hydric So	il Procent?	Vac	No
Depth (inches):				Hydric So	il Present?	Yes	No_
Depth (inches):				Hydric So	il Present?	Yes	No_
Depth (inches): Remarks: YDROLOGY				Hydric So	il Present?	Yes	No_
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators:	ired; check all that an	anly)					
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requ			20) (20222		Secondary Ind	licators (2 or more re	equired)
Depth (inches): Primary Indicators (minimum of one is requestional Surface Water (A1)	Water-Stain	ed Leaves (E			Secondary Ind	licators (2 or more reined Leaves (B9) (N	equired)
Depth (inches): Pemarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2)	Water-Stain	ed Leaves (E , 2, 4A, and			Secondary Ind Water-Sta 4A, and	licators (2 or more reined Leaves (B9) (Nd 4B)	equired)
Primary Indicators (minimum of one is requesting Water (A1) High Water Table (A2) Saturation (A3)	Water-Stain MLRA 1, Salt Crust (E	ed Leaves (E , 2, 4A, and 4 311)	IB)		Secondary Ind Water-Sta 4A, and	licators (2 or more re ined Leaves (B9) (N d 4B) Patterns (B10)	equired)
Depth (inches): Primary Indicators (minimum of one is requesting Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve	ed Leaves (E , 2 , 4A , and 4 311) ertebrates (B	(B)		Secondary Ind Water-Sta 4A, and Drainage	licators (2 or more re ined Leaves (B9) (N d 4B) Patterns (B10) on Water Table (C2)	equired)
Depth (inches): Primary Indicators (minimum of one is requestrated Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve	ed Leaves (E , 2 , 4A , and 4 B11) ertebrates (B' ulfide Odor (I	(B) (3) (31)		Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso	licators (2 or more re ined Leaves (B9) (N d 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Im	equired)
Depth (inches): Primary Indicators (minimum of one is requested Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve	ed Leaves (E , 2, 4A, and 4 311) ertebrates (B' ulfide Odor (I	(B) (3) (C1) on Living Ro		Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph	licators (2 or more re ined Leaves (B9) (N d 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Im nic Position (D2)	equired)
Depth (inches): Primary Indicators (minimum of one is requested water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of	ed Leaves (E , 2, 4A, and 4 311) ertebrates (B' ulfide Odor (hizospheres of Reduced Iro	(B) (3) (C1) (n Living Ro (C4)	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A	licators (2 or more reined Leaves (B9) (Nd 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Imic Position (D2) quitard (D3)	equired)
Primary Indicators (minimum of one is requested Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	ed Leaves (E , 2, 4A, and 4 311) ertebrates (B' ulfide Odor (i bizospheres of FReduced Iro Reduction in	(B) (C1) In Living Ro In (C4) Tilled Soils	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neutr	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Print Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S	ed Leaves (E , 2, 4A, and 4 B11) ertebrates (B' ulfide Odor (I aizospheres of Reduced Iro Reduction in Stressed Plan	(B) (C1) (C1) (C1) (C4) Tilled Soils (C1) (LF	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requestive Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (E , 2, 4A, and 4 311) ertebrates (B' ulfide Odor (i bizospheres of FReduced Iro Reduction in	(B) (C1) (C1) (C1) (C4) Tilled Soils (C1) (LF	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Primary Indicators (minimum of one is requested Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (E , 2, 4A, and 4 B11) ertebrates (B' ulfide Odor (I aizospheres of Reduced Iro Reduction in Stressed Plan	(B) (C1) (C1) (C1) (C4) Tilled Soils (C1) (LF	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requised by Saturation (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (B1)	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (E , 2, 4A, and 4 B11) ertebrates (B' ulfide Odor (I aizospheres of Reduced Iro Reduction in Stressed Plan	(B) (C1) (C1) (C1) (C4) Tilled Soils (C1) (LF	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is requestive Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain	ed Leaves (E , 2, 4A, and 4 B11) ertebrates (B' ulfide Odor (I aizospheres of Reduced Iro Reduction in Stressed Plan	(C1) on Living Ro n (C4) Tilled Soils ts (D1) (LF	oots (C3)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
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Popth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Sparsely Vegetated Concave Surface (Field Observations: Surface Water Present? Yes	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S (7) Other (Explain (88)	ed Leaves (E. 2, 4A, and 4 B11) ertebrates (Bi ulfide Odor (I aizospheres of Reduced Iro Reduction in Stressed Plan ain in Remark	(B) (3) (C1) In Living Ron (C4) Tilled Soils ts (D1) (LF	pots (C3) s (C6) RR A)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A FAC-Neutr Raised An Frost-Hear	dicators (2 or more reined Leaves (B9) (Nod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Impic Position (D2) quitard (D3) ral Test (D5)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B Sparsely Vegetated Concave Surface (Sield Observations: Surface Water Present? Ves	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S (7) Other (Explain (88)	ed Leaves (E. 2, 4A, and 4 311) ertebrates (Brulfide Odor (Inizospheres of Reduced Iron Reduction in Stressed Plantain in Remark	(B) (3) (C1) In Living Ron (C4) Tilled Soils ts (D1) (LF	pots (C3) s (C6) RR A)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow A FAC-Neutr Raised An Frost-Hear	dicators (2 or more reined Leaves (B9) (Mod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Implic Position (D2) quitard (D3) ral Test (D5) of Mounds (D6) (LRF) ve Hummocks (D7)	equired) ILRA 1, 2 agery (C9)
Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Sparsely Vegetated Concave Surface (Concave Surface (Conc	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S (7) Other (Explain (88)	ed Leaves (E 2, 4A, and 4 311) ertebrates (B ulfide Odor (i bizospheres of Reduced Iro Reduction in Stressed Plan ain in Remark Depth (inches Depth (inches	(B) (3) (C1) In Living Rom (C4) Tilled Soils (ts (D1) (LF) (s) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	oots (C3) s (C6) RR A)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An Frost-Head	dicators (2 or more reined Leaves (B9) (Mod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Implic Position (D2) quitard (D3) ral Test (D5) of Mounds (D6) (LRF) ve Hummocks (D7)	equired) ILRA 1, 2 agery (C9)
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Depth (inches): temarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is requing a surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Sparsely Vegetated Concave Surface (Concave Sur	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S (7) Other (Explain (88)	ed Leaves (E 2, 4A, and 4 311) ertebrates (B ulfide Odor (i bizospheres of Reduced Iro Reduction in Stressed Plan ain in Remark Depth (inches Depth (inches	(B) (3) (C1) In Living Rom (C4) Tilled Soils (ts (D1) (LF) (s) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	oots (C3) s (C6) RR A)	Secondary Ind Water-Sta 4A, and Drainage I Dry-Seaso Saturation Geomorph Shallow Ad FAC-Neuti Raised An Frost-Head	dicators (2 or more reined Leaves (B9) (Mod 4B) Patterns (B10) on Water Table (C2) Visible on Aerial Implic Position (D2) quitard (D3) ral Test (D5) of Mounds (D6) (LRF) ve Hummocks (D7)	equired) ILRA 1, 2 agery (C9)

WETLAND DETERMINATION DATA SHEET - Western Mountains, Valleys, and Coast Region Requirement Control Symbol EXEMPT: See ERDC/EL TR-10-3; the proponent agency is CECW-COR (Authority: AR 335-15, paragraph 5-2a) Project/Site: Street Extension City/County: Florence Sampling Date: City of Florence State: Oe. Applicant/Owner: Sampling Point: Section, Township, Range: T 185 Investigator(s): R12W 527 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Concrete Slope (%): Subregion (LRR): LRPA Lat: 43.976481 Long: - 124, 114891 Datum: NAD82 NWI classification: N/A Soil Map Unit Name: 131C Richar - Keating Silt loan. Yes ______ No____ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🗶 No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes Is the Sampled Area Hydric Soil Present? Yes No within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Tree Stratum (Plot size: 10 m 2) Dominance Test worksheet: % Cover Species? Status PAC Number of Dominant Species That 2. Pseudotsugarnentiesil Are OBL. FACW, or FAC: Total Number of Dominant Species Across All Strata: 90 =Total Cover Percent of Dominant Species That Sapling/Shrub Stratum (Plot size:) Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species ZO x1= Zo x 2 = FACW species FAC species =Total Cover 90 x3= (Plot size: Im -) Herb Stratum FACU species 30 x4= /20 UPL species Column Totals: 140 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants1 Problematic Hydrophytic Vegetation (Explain) Woody Vine Stratum (Plot size: ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic =Total Cover Vegetation % Bare Ground in Herb Stratum Present? Remarks:

U.S. Army Corps of Engineers

OMB Control #: 0710-0024, Exp: 06/30/2024

Depth Matrix	Redo	x Featur	res			
inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2 1048311 100					organ	n/c
1-7 104231,95	54R516	5	0	M	Sand	
7-20 10408/390	5425/4	10	-	M	Sara	11
7-10 10 12 10	3 16316		_			5
		Ξ	Ξ	\equiv		
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, (CS=Cove	ered or C	oated Sa	and Grains.	² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to all L	RRs, unless other	erwise n	oted.)		Inc	licators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gle	eyed Mat	trix (S4)			2 cm Muck (A10) (LRR A, E)
Histic Epipedon (A2)	Sandy Red	dox (S5)				Iron-Manganese Masses (F12) (LRR D)
Black Histic (A3)	Stripped N	Matrix (S	6)			Red Parent Material (F21)
Hydrogen Sulfide (A4)	Loamy Mu	icky Min	eral (F1)	(except	MLRA 1)	Very Shallow Dark Surface (F22)
1 cm Muck (A9) (LRR D, G)	Loamy Gle	eyed Ma	trix (F2)			Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted I	Matrix (F	3)			
Thick Dark Surface (A12)	Redox Da	rk Surfac	ce (F6)		3In	dicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Depleted I	Dark Sur	face (F7)	0		wetland hydrology must be present,
2.5 cm Mucky Peat or Peat (S2) (LRR G	Redox De	pression	s (F8)			unless disturbed or problematic.
Sandulativa I areas (16 also assessible						
Туре:						
Restrictive Layer (if observed): Type: Depth (inches): Remarks:					Hydric Soil P	resent? Yes No
Type: Depth (inches): Remarks:					Hydric Soil P	resent? Yes 🚣 No_
Type: Depth (inches):					Hydric Soil P	resent? Yes <u>No</u> No_
Type: Depth (inches): Remarks: YDROLOGY	ed; check all that a	apply)				resent? Yes No_
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is require Surface Water (A1)	ed; check all that a		aves (B9)	(except	Se	
Type: Depth (inches): Demarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1)	Water-Sta	ined Lea	oves (B9)	2000	Se	condary Indicators (2 or more required)
Type: Depth (inches): Demarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1)	Water-Sta	ined Lea 1, 2, 4A		2000	Se	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2
Type: Depth (inches): YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Sta MLRA Salt Crust Aquatic In	ined Lea 1, 2, 4A (B11) vertebra	and 4B)		Se	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Type: Depth (inches): YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Sta MLRA Salt Crust Aquatic In	ined Lea 1, 2, 4A (B11) vertebra Sulfide (, and 4B) tes (B13) Odor (C1	7	Se	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9
Type: Depth (inches): Pemarks: Pydrology Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph	tes (B13) Odor (C1 neres on I	iving Ro	Se	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Type: Depth (inches): emarks: YDROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph of Reduce	tes (B13) Odor (C1 neres on I	iving Ro	oots (C3)	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro	ined Lea 1, 2, 4A, (B11) vertebrate Sulfide (Rhizosphof Reductor n Reductor	tes (B13) Odor (C1 heres on I ced Iron () Iving Ro	Se ————————————————————————————————————	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph of Reduc Stresse	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti) Iving Ro	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Pemarks: Pydrology Petland Hydrology Indicators: rimary Indicators (minimum of one is required by the second of the s	Water-Sta MLRA Salt Crust Aquatic Interpretation Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph of Reduc Stresse	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti) Iving Ro	Se ————————————————————————————————————	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type: Depth (inches): Pemarks: Pyprology Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water-Sta MLRA Salt Crust Aquatic Interpretation Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Lea 1, 2, 4A (B11) vertebra Sulfide (Rhizosph of Reduc Stresse	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti) Iving Ro	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B) Religious Concave Surface (B)	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp.	ined Lea 1, 2, 4A, (B11) vertebrai Sulfide (Rhizosph of Reduct on Reduct Stresse plain in F	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti d Plants Remarks)) Iving Ro	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Remarks: POROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one is required by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B1) Indicated Water Present? Ves	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp.	ined Lea 1, 2, 4A (B11) vertebral Sulfide (Rhizosph of Reduct on Reduct Stresse blain in F	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti d Plants Remarks)	Living Ro C4) Illed Soils (D1) (LR	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Type: Depth (inches): Remarks: Primary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B6) Gield Observations: Surface Water Present? Ves Vater Table Present? Ves	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp.	ined Lea 1, 2, 4A (B11) vertebral Sulfide (Rhizosph of Reduct on Reduct Stresse plain in R	tes (B13) Odor (C1 heres on I ced Iron (ction in Ti d Plants Remarks)	Living Rc C4) Illed Soils (D1) (LR	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Type: Depth (inches): Remarks: PYDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B1) Indicated Water Present? Ves Vater Table Present? Ves	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp No	ined Lea 1, 2, 4A (B11) vertebral Sulfide (Rhizosph of Reduct on Reduct Stresse plain in R	tes (B13) Odor (C1 peres on I ced Iron (ction in Ti d Plants Remarks)	Living Rc C4) Illed Soils (D1) (LR	Se ————————————————————————————————————	Condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Type: Depth (inches): Remarks: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B1) Remarks: Primary Indicators: Surface Water Present? Ves Vater Table Present? Ves Vater Table Present? Ves Vater Table Present? Ves	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp No No No	ined Lea 1, 2, 4A, (B11) vertebrai Sulfide (Rhizosph of Reduct n Reduct Stresse plain in F	tes (B13) Odor (C1 neres on I ced Iron (ction in Ti ed Plants Remarks) inches): inches):	Living Rc C4) Illed Soils (D1) (LR	oots (C3)	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Type: Depth (inches): Remarks: PAROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B1) Indicated Water Present? Vater Table Present? Vater Table Present? Ves Vater Table Present?	Water-Sta MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp No No No	ined Lea 1, 2, 4A, (B11) vertebrai Sulfide (Rhizosph of Reduct n Reduct Stresse plain in F	tes (B13) Odor (C1 neres on I ced Iron (ction in Ti ed Plants Remarks) inches): inches):	Living Rc C4) Illed Soils (D1) (LR	oots (C3)	condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3: the proponent agency is CECW-COR

Coc ENDO/EE TIX-10-0, the proportent agency is OEOVI-OOK	/-
Project/Site: Street Extension City/County: Flore	nee/Lone Sampling Date: 10/09
Applicant/Owner: City of Florence	State: 6(, Sampling Point: 3A
	inge: TISS 1212W 527
Landform (hillside, terrace, etc.): Terrace Local relief (concave, conv	/ex, none): Convex Slope (%):
Subregion (LRR): <u>LRRA</u> Lat: <u>43.976372</u> Long: -	-124. 114763 Datum: NAD83
Soil Map Unit Name: 131C Rdley - Kesten Silt Laur	NWI classification: NA
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal C	Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, ex	and the state of t
SUMMARY OF FINDINGS – Attach site map showing sampling point lo	
Hydrophytic Vegetation Present? Yes No Is the Sampled A within a Wetland Wetland Hydrology Present? Yes No	N N
Remarks:	
upolope of wetland	drainage
VEGETATION – Use scientific names of plants.	0
Tree Stratum (Plot size: 10 m) Absolute Dominant Indicator % Cover Species? Status	Danisana Tantuunkahanti
1. Pseudo tsuga mension 80 4 PACU	Dominance Test worksheet:
2	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.	Total Number of Dominant Species Z Across All Strata: (B)
=Total Cover	Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size: 5 m?)	Are OBL, FACW, or FAC: (A/B
1. Vaccinum ovaloblium 30 4 Left	
2	Prevalence Index worksheet: Total % Cover of: Multiply by:
4.	OBL species x1=
5.	FACW species x 2 =
32 =Total Cover	FAC species x 3 =
Herb Stratum (Plot size:)	FACU species 80 x4= 320
1	UPL species 30 x5= 150
2.	Column i otals: 110 (A) 470 (B)
3	Prevalence Index = B/A = 4,2
5.	Hydrophytic Vegetation Indicators:
	1 - Rapid Test for Hydrophytic Vegetation
	2 - Dominance Test is >50%
8.	3 - Prevalence Index is ≤3.01
9.	4 - Morphological Adaptations (Provide supporting
10	data in Remarks or on a separate sheet)
11	5 - Wetland Non-Vascular Plants ¹
=Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)	¹ Indicators of hydric soil and wetland hydrology must
2	be present, unless disturbed or problematic.
=Total Cover	Hydrophytic
- I Oldi OUYUI	Vegetation
% Bare Ground in Herb Stratum - 100	Present? Yes No

epth Matrix uches) Color (moist) %	Color (moist) % Type ¹ Loc ²	Texture	Remarks
6 6		Organic	
2 - 251.50 100		Sandy	
-20 754RS/2 100		saray	
	Reduced Matrix, CS=Covered or Coated		ation: PL=Pore Lining, M=Matrix.
dric Soil Indicators: (Applicable to all L			rs for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)		Muck (A10) (LRR A, E)
Histic Epipedon (A2)	Sandy Redox (S5)		Manganese Masses (F12) (LRR D)
Black Histic (A3)	Stripped Matrix (S6)		Parent Material (F21)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (except		Shallow Dark Surface (F22)
1 cm Muck (A9) (LRR D, G)	Loamy Gleyed Matrix (F2)	Othe	r (Explain in Remarks)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	3 _{Indiantes}	rs of hydrophytic vegetation and
Thick Dark Surface (A12)	Redox Dark Surface (F6)		and hydrology must be present,
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		ss disturbed or problematic.
2.5 cm Mucky Peat or Peat (S2) (LRR 0	Redox Depressions (F8)	unies	ss disturbed or problematic.
strictive Layer (if observed):			
Type:	_	Hydric Soil Presen	t? Yes No
Type: Depth (inches):		Hydric Soll Presen	t? Yes No
Type: Depth (inches):		Hydric Soil Presen	t? Yes No
Type: Depth (inches): emarks:		Hydric Soil Presen	t? Yes No
Type: Depth (inches): emarks:	red; check all that apply)	Seconda	ry Indicators (2 or more required)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators:	red; check all that apply) Water-Stained Leaves (B9) (exce	Seconda ptWate	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required)		Seconda ptWate	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is requi	Water-Stained Leaves (B9) (exce MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	Seconda ptWate 4.	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required) Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (exce MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Seconda pt Wate Drain Dry-	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required by the state of the stat	Water-Stained Leaves (B9) (exce MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	Seconda pt Wate 4. Drain Dry Satu	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (excellent MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living	Seconda pt Wate 4 Drain Dry Satu Roots (C3) Geo	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (CS morphic Position (D2)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (excellent MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4)	Seconda ptWate 4Drain DrySatu Roots (C3)GeoShal	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (CS morphic Position (D2) low Aquitard (D3)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required by the second of the second	Water-Stained Leaves (B9) (excellent MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Science	Seconda	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) low Aquitard (D3) -Neutral Test (D5)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (excellent MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So	Seconda	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Type: Depth (inches): marks: DROLOGY Internal Hydrology Indicators: mary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solution Stunted or Stressed Plants (D1) (Seconda	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) low Aquitard (D3) -Neutral Test (D5)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: mary Indicators (minimum of one is required by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (excel MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Solution Stunted or Stressed Plants (D1) (Seconda	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Type: Depth (inches): marks: DROLOGY Paland Hydrology Indicators: mary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B1) Sparsely Vegetated Concave Surface (1) Eld Observations:	Water-Stained Leaves (B9) (excellent MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (Other (Explain in Remarks)	Seconda	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) hage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Type: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required by Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Sparsely Vegetated Concave Surface (Inches Water Present? Deposits (B5) Sparsely Vegetated Concave Surface (Inches Water Present?	Water-Stained Leaves (B9) (excess MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Stunted or Stressed Plants (D1) (Other (Explain in Remarks) No Depth (inches):	Seconda	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A)
Type: Depth (inches): emarks: Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Sparsely Vegetated Concave Surface (Inches Water Present? Depth (inches): Drift Deposits (Material Imagery (B) Surface Water Present? Depth (inches): Depth (inche	Water-Stained Leaves (B9) (excess MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Stunted or Stressed Plants (D1) (Other (Explain in Remarks) No Depth (inches): Depth (inches):	Seconda	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Type: Depth (inches): marks: Depth (inches): marks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required in surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Sparsely Vegetated Concave Surface (Indicated Water Present? Inface	Water-Stained Leaves (B9) (excess MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Stunted or Stressed Plants (D1) (Other (Explain in Remarks) No Depth (inches):	Seconda Wate A. Drain Dry- Satu Roots (C3) Geo Shal Drisk (C6) FAC LRR A) Rais	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (C9 morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Type: Depth (inches): emarks: DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one is required): Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Sparsely Vegetated Concave Surface (Inches Water Present? Indicated Water Present? Indicat	Water-Stained Leaves (B9) (excess MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Stunted or Stressed Plants (D1) (Other (Explain in Remarks) No Depth (inches): No Depth (inches):	Seconda ptWate	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (CS morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)
Type: Depth (inches): marks: DROLOGY Petland Hydrology Indicators: mary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B) Sparsely Vegetated Concave Surface (Inches Water Present? Peter Table Present?	Water-Stained Leaves (B9) (excess MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Stunted or Stressed Plants (D1) (Other (Explain in Remarks) No Depth (inches): Depth (inches):	Seconda ptWate	ry Indicators (2 or more required) er-Stained Leaves (B9) (MLRA 1, 2 A, and 4B) nage Patterns (B10) Season Water Table (C2) ration Visible on Aerial Imagery (CS morphic Position (D2) low Aquitard (D3) -Neutral Test (D5) ed Ant Mounds (D6) (LRR A) t-Heave Hummocks (D7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3: the proponent agency is CECW-COR

		0	1.	1.
Project/Site: Street Extension		City/County: - or		Sampling Date:
Applicant/Owner: City of Floren		170.74	State: 82	Sampling Point: 38
nvestigator(s): Kahe		Section, Township, Ra	ange: TIRS R	12W 327
Landform (hillside, terrace, etc.): Terca				Slope (%): 5
Subregion (LRR): LRRA Lat:	13.97638-	7 Long: _	- 124,114807	Datum: NAD
Soil Map Unit Name: 131C Richey -1	Leating Silt	logn	NWI classi	fication: NA
Are climatic / hydrologic conditions on the site typica	for this time of year	r? Yes X	No (If no, ex	plain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly distur	rbed? Are "Normal	Circumstances" present?	Yes X No
Are Vegetation, Soil, or Hydrology			xplain any answers in Re	
SUMMARY OF FINDINGS – Attach site r				
Hydrophytic Vegetation Present? Yes Yes Yes Yes Wetland Hydrology Present? Yes	No No No	Is the Sampled A		No
Remarks:				
VEGETATION – Use scientific names of				
Tree Stratum (Plot size: 10 m Z)		minant Indicator pecies? Status	Dominance Test wor	rksheet:
1. Alous rubra	90	V PAC	Number of Dominant	
2.		7 111	Are OBL, FACW, or F	
3 4			Total Number of Dom Across All Strata:	inant Species 3 (B)
3.5.7		al Cover	Percent of Dominant	Species That
Sapling/Shrub Stratum (Plot size: 5 M 2			Are OBL, FACW, or F	AC: 33 (A/
1. Rubuspectabilis	_30_	yes MAC		
2.			Prevalence Index wo	
3			Total % Cover of	Multiply by:
5.			OBL species FACW species	x 2 =
-	=Tota	al Cover	FAC species 12	
Herb Stratum (Plot size: /m 2)			FACU species	
1. Polystichm mynifax	n 20	yec PACU		x 5 =
2. 7 3.			Column Totals: 79 Prevalence Index	
5			Hydrophytic Vegetat	ion Indicators:
6.				Hydrophytic Vegetation
7.			2 - Dominance Te	
8.			3 - Prevalence Inc	dex is ≤3.0 ¹
9				Adaptations ¹ (Provide supporting or on a separate sheet)
11.			5 - Wetland Non-	Vascular Plants ¹
	ZV =Tota	al Cover		ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:1.)		The state of the s	oil and wetland hydrology must
2.				- F. Serielling
View and the second	=Tots	al Cover	Hydrophytic Vegetation	h
% Bare Ground in Herb Stratum			Present? Yes	No No

Profile Description: (Describe to the dep Depth Matrix		x Featur	es				21-11-24	
inches) Color (moist) %	Color (moist)	%	Type ¹	Loc ²	Text	ture	Ren	marks
0-1 1042311 100	1				DVA	ena		
1-6 10423/1 95	54000	-	1	M		usand		
6-20 10486 90	SURS	10	-	101	PHICE	y sung		
6 10 10 10 10 .	59R3/6	10	_	M		nay -		
		_	_	_				
		_						
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, 0	CS=Cove	ered or C	oated Sa	and Grains.	² Location:	PL=Pore Lini	ng, M=Matrix.
lydric Soil Indicators: (Applicable to all I	LRRs, unless other	erwise n	oted.)				Problematic	
Histosol (A1)	Sandy Gle	eyed Mati	rix (S4)				k (A10) (LRR	
Histic Epipedon (A2)	X Sandy Re						anese Masses	
Black Histic (A3)	Stripped N	Matrix (Se	6)		- 20		nt Material (F2	
Hydrogen Sulfide (A4)	Loamy Mu			except	MLRA 1)	_	low Dark Surfa	
1 cm Muck (A9) (LRR D, G)	Loamy Gle						plain in Remar	
Depleted Below Dark Surface (A11)	Depleted I						A STATE OF THE STA	
Thick Dark Surface (A12)	Redox Da					3Indicators of	nydrophytic ve	getation and
Sandy Mucky Mineral (S1)	Depleted I	Dark Surf	face (F7)			wetland h	ydrology must	be present,
2.5 cm Mucky Peat or Peat (S2) (LRR 0	Redox De	pressions	s (F8)			unless dis	turbed or prob	lematic.
Restrictive Layer (if observed):								
Type:								
Depth (inches):					Hydric So	oil Present?	Yes	₹ No.
Remarks:					Hydric So	oil Present?	Yes	₹ No.
YDROLOGY					Hydric So	oil Present?	Yes	₹ No.
YDROLOGY Vetland Hydrology Indicators:	red: check all that a	apply)			Hydric So			
YDROLOGY Vetland Hydrology Indicators: virimary Indicators (minimum of one is requir		79 75	ves (B9)	(except		Secondary Inc	icators (2 or m	ore required)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1)	Water-Stai	ined Leav		(except		Secondary Inc. Water-Sta	icators (2 or m	ore required)
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1)	Water-Stai	ined Leav 1, 2, 4A,		(except		Secondary Inc Water-Sta 4A, an	icators (2 or m	ore required) 39) (MLRA 1,
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2)	Water-State MLRA Salt Crust	ined Leav 1, 2, 4A, (B11)	and 4B)	(except		Secondary Inc Water-Sta 4A, an Drainage	icators (2 or m ined Leaves (E d 4B) Patterns (B10)	ore required) 39) (MLRA 1,
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stai	ined Leav 1, 2, 4A, (B11) vertebrate	and 4B) es (B13)			Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc	icators (2 or m ined Leaves (E d 4B)	ore required) 39) (MLRA 1,
YDROLOGY Vetland Hydrology Indicators: Virimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stai MLRA Salt Crust Aquatic Inv	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide C	and 4B) es (B13) odor (C1)			Secondary Inc Water-Sta 4A, an Drainage Dry-Seaso Saturation	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table	ore required) 39) (MLRA 1,
YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen	ined Leavent 1, 2, 4A, (B11) vertebrate Sulfide Chizosphe	es (B13) odor (C1) eres on L	iving Ro		Secondary Inc. Water-Sta 4A, an Drainage Dry-Sease Saturation	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer	ore required) 39) (MLRA 1,
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F	ined Leaven 1, 2, 4A, (B11) vertebrate Sulfide C Rhizosphe of Reduce	es (B13) odor (C1) eres on L	iving Ro	oots (C3)	Secondary Inc. Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer iic Position (D2	ore required) 39) (MLRA 1,
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence	ined Leave 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct	es (B13) dor (C1) eres on L ed Iron (Cion in Til	iving Ro C4) led Soils	oots (C3)	Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A FAC-Neut	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3)	ore required) 39) (MLRA 1, (C2) fial Imagery (C2)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iro Stunted or	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Stressed	es (B13) odor (C1) eres on L ed Iron (Cion in Till d Plants (iving Ro C4) led Soils	oots (C3)	Secondary Inc Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised An	icators (2 or mined Leaves (Ed 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5)	ore required) 39) (MLRA 1, (C2) rial Imagery (C2) (LRR A)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iron Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Stressed	es (B13) odor (C1) eres on L ed Iron (Cion in Till d Plants (iving Ro C4) led Soils	oots (C3)	Secondary Inc Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised An	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	ore required) 39) (MLRA 1, (C2) rial Imagery (C2) (LRR A)
YDROLOGY Vetland Hydrology Indicators: Trimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iron Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Stressed	es (B13) odor (C1) eres on L ed Iron (Cion in Till d Plants (iving Ro C4) led Soils	oots (C3)	Secondary Inc Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised An	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	ore required) 39) (MLRA 1, (C2) rial Imagery (C2) (LRR A)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized R Presence of Recent Iro Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduce n Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (Cion in Till d Plants (emarks)	iving Ro C4) led Soils	oots (C3)	Secondary Inc Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised An	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	ore required) 39) (MLRA 1, (C2) rial Imagery (C2) (LRR A)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations:	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iron Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (Cion in Till d Plants (emarks)	iving Ro C4) led Soils	oots (C3)	Secondary Inc Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised An	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6)	ore required) 39) (MLRA 1, (C2) rial Imagery (C2) (LRR A)
YDROLOGY Vetland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations: urface Water Present? Yes	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iron Stunted or Other (Exp	ined Leav 1, 2, 4A, (B11) vertebrate Sulfide O Rhizosphe of Reduct n Reduct Stressed blain in Re	es (B13) bdor (C1) eres on L ed Iron (fillion in Till d Plants (emarks) enches):nches):nches):	iving Ro C4) led Soils D1) (LR	oots (C3)	Secondary Inc Water-Sta 4A, an Drainage Dry-Sease Saturation Geomorph Shallow A FAC-Neut Raised An	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) ve Hummocks	(C2) ial Imagery (C2) (LRR A) (D7)
Verland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations: urface Water Present? Ves vater Table Present? vaturation Present?	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leavined Leavined Leavined Leavined Leavine Sulfide Control Reduction R	es (B13) dor (C1) eres on L ed Iron (i cion in Til d Plants (emarks) enches): enches): enches)	iving Ro C4) led Soils D1) (LR	oots (C3) (C6) R A)	Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A FAC-Neut Raised An Frost-Hea	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) ve Hummocks	(C2) ial Imagery (C2) (LRR A) (D7)
Vertland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations: urface Water Present? Ves Vater Table Present? Ves aturation Present? Yes	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leavined Leavined Leavined Leavined Leavine Sulfide Control Reduction R	es (B13) dor (C1) eres on L ed Iron (i cion in Til d Plants (emarks) enches): enches): enches)	iving Ro C4) led Soils D1) (LR	oots (C3) (C6) R A)	Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A FAC-Neut Raised An Frost-Hea	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) ve Hummocks	(C2) ial Imagery (C2) (LRR A) (D7)
Verland Hydrology Indicators: Irimary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B1) ield Observations: urface Water Present? Ves vater Table Present? vaturation Present?	Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leavined Leavined Leavined Leavined Leavine Sulfide Control Reduction R	es (B13) dor (C1) eres on L ed Iron (i cion in Til d Plants (emarks) enches): enches): enches)	iving Ro C4) led Soils D1) (LR	oots (C3) (C6) R A)	Secondary Inc Water-Sta 4A, an Drainage Dry-Seasc Saturation Shallow A FAC-Neut Raised An Frost-Hea	icators (2 or m ined Leaves (E d 4B) Patterns (B10) on Water Table Visible on Aer ic Position (D2 quitard (D3) ral Test (D5) t Mounds (D6) ve Hummocks	(C2) ial Imagery (C2) (LRR A) (D7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR

Project/Site: Street Extension	City/County: Flac	ence/lone Sampling Date: 10/09
Applicant/Owner: City of Florence		State: OR. Sampling Point: 4A
Investigator(s): Rabe	Section, Township, Ra	ange: TIBS R12W S27
Landform (hillside, terrace, etc.): Tellace	Local relief (concave, con-	vex, none); Convex Slope (%):2
Subregion (LRR): Lat: 43,9763	5 % Long: _	124.115022 Datum: NAD8
Soil Map Unit Name: 131C Ridley - Kesting S.		NWI classification:
Are climatic / hydrologic conditions on the site typical for this time		No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly	y disturbed? Are "Normal	Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, ex	xplain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ing sampling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Is the Sampled A	10
Remarks:		
1/10/10/00	of wetla	a. Ol .
VEGETATION – Use scientific names of plants.	of werea	nac
Absolute	Dominant Indicator	
Tree Stratum (Plot size: 10 m Z) % Cover		Dominance Test worksheet:
1. Pscudo tsuga mensierii 80	9 10704	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3		Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size: 5 m 2)	=Total Cover	Percent of Dominant Species That
1. Gray Hheria Shallan 30	YES FACU	Are OBL, FACW, or FAC: (A/B)
2. Naccinium Ovalifolium 10	yes up	Prevalence Index worksheet:
3.		Total % Cover of: Multiply by:
4		OBL species x 1 =
5	=Total Cover	FACW species x 2 = FAC species x 3 =
Herb Stratum (Plot size:	Total Cover	FACU species //D x4= 44D
1.		UPL species 10 x5= 50
2.		Column Totals: 120 (A) 490 (B)
3.		Prevalence Index = B/A = 4, ,
5.		Hydrophytic Vegetation Indicators:
6.		1 - Rapid Test for Hydrophytic Vegetation
7.		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3.01
9		4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
10		5 - Wetland Non-Vascular Plants ¹
· · ·	=Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1.		be present, unless disturbed or problematic.
2.	-Total Cause	Hydrophytic
% Bare Ground in Herb Stratum	=Total Cover	Vegetation Present? Yes No No
Remarks:		

	Color (moist) % Type¹ Loc	Texture Organic Sandy	Remarks
Type: C=Concentration, D=Depletion, RM=R Iydric Soil Indicators: (Applicable to all LR Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) 1 cm Muck (A9) (LRR D, G) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G)	RRs, unless otherwise noted.) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Loamy Mucky Mineral (F1) (exce) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7)	Indicators	tion: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ : Muck (A10) (LRR A, E) Manganese Masses (F12) (LRR D) Parent Material (F21) Shallow Dark Surface (F22) (Explain in Remarks) of hydrophytic vegetation and and hydrology must be present, as disturbed or problematic.
Type: Depth (inches): temarks: YDROLOGY		Hydric Soil Present	YesNo_
Vetland Hydrology Indicators: rimary Indicators (minimum of one is required	d; check all that apply)Water-Stained Leaves (B9) (exce		Indicators (2 or more required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Stunted or Stressed Plants (D1) (I	Draina	-Stained Leaves (B9) (MLRA 1, 2 , and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) deutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region
See ERDC/EL TR-10-3: the proponent agency is CECW-COR

See LINDOILL TIN-10-5, the proportent agen	icy is CLCVV-COR	(riamony rin see to, paragraph e za)
Project/Site: Street Extension		ence / lane Sampling Date: 10/09
Applicant/Owner: City of Florence		State: O C. Sampling Point: 4B
Investigator(s): Pahe		
		ex, none): Concare Slope (%): 4
		124.114995 Datum: NAD
Soil Man Unit Name: 1216 2.11 1/ . O 11	I cong	NWI classification: N/A
Soil Map Unit Name: 131C Ridley - Keeting Silt		
Are climatic / hydrologic conditions on the site typical for this time of y		
Are Vegetation, Soil, or Hydrologysignificantly dis		Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrology naturally proble	ematic? (If needed, ex	plain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled A	1.0
Hydric Soil Present? Yes No No No	within a Wetland	? Yes <u>V</u> No
Remarks:		
VEGETATION – Use scientific names of plants.		
Absolute	Dominant Indicator	Te. 20 Te
	Species? Status	Dominance Test worksheet:
1. Hlaus nubra 40 2. Pseudotsuga menties: 5	4 FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3		Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size:)	otal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
1.		100 ODE (1710)
2.		Prevalence Index worksheet:
3.		Total % Cover of: Multiply by:
4		OBL species x 1 =
5	-	FACW species x 2 =
	otal Cover	FAC species 100 x3= 300
Herb Stratum (Plot size: /m Z)	i En-	FACU species S x 4 = ZO
1. A thyrum cycksomm 10	7 140	UPL species x 5 =
2.		Column Totals: 105 (A) 370 (B) Prevalence Index = B/A = 3.1
4		Prevalence Index - B/A - 3./
5.		Hydrophytic Vegetation Indicators:
6.		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
8.		3 - Prevalence Index is ≤3,01
9.		4 - Morphological Adaptations (Provide supporting
10		data in Remarks or on a separate sheet)
11.		5 - Wetland Non-Vascular Plants ¹
	otal Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)		¹ Indicators of hydric soil and wetland hydrology must
1,		be present, unless disturbed or problematic.
2		Hydrophytic
//	otal Cover	Vegetation
% Bare Ground in Herb Stratum . <u>76</u>		Present? Yes No No
Remarks:		

Depth	ption: (Describe t Matrix			x Featur	es				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	e	Remarks
0-2	1048311	100					orga	1 hdc	
27	1011034	95	5 VRSTO	-	-	N			0
- 70	104 1-00	00	5 yesto	7 7	-	101		disane	
1-10	1048613	90	3 911 5/6	10	_	111	- Sam	dy -	
		\equiv		Ξ	Ξ	Ξ			
Type: C=Con	centration, D=Depl	etion, RM:	=Reduced Matrix, (CS=Cove	red or C	oated S	and Grains.	² Location:	PL=Pore Lining, M=Matrix.
	dicators: (Applica								Problematic Hydric Soils ³
Histosol (A	(1)		Sandy Gle	yed Mat	rix (S4)				(A10) (LRR A, E)
Histic Epip	edon (A2)		Sandy Re	dox (S5)			_		nese Masses (F12) (LRR I
Black Histi	c (A3)		7 Stripped N		5)				Material (F21)
Hydrogen :	Sulfide (A4)		Loamy Mu	cky Mine	eral (F1)	(except	MLRA 1)		w Dark Surface (F22)
	(A9) (LRR D, G)		Loamy Gle						ain in Remarks)
	Below Dark Surface	(A11)	Depleted N				_		
Thick Dark	Surface (A12)		Redox Da	rk Surfac	e (F6)		31	ndicators of hy	drophytic vegetation and
Sandy Muc	cky Mineral (S1)		Depleted [Dark Sur	face (F7)			wetland hyd	drology must be present,
2.5 cm Mu	cky Peat or Peat (S	(LRR	Redox De	pressions	s (F8)			unless dist	urbed or problematic.
7.75 V-340-7 V-1									
estrictive La	yer (if observed):								
Type:	yer (if observed):								
	XC18 (Ca.44)						Hydric Soil I	Present?	Yes No
Type: Depth (inch Remarks:	hes):						Hydric Soil I	Present?	Yes No
Type: Depth (inch Remarks:	hes):						Hydric Soil I	Present?	Yes No
Type: Depth (inch Remarks: YDROLOG Vetland Hydro	hes):	ne is requi	red; check all that a	apply)					Yes No
Type: Depth (inch Remarks: YDROLOG Vetland Hydro	hes): Y ology Indicators: ors (minimum of or	ne is requi	red; check all that a		ves (B9)	(except	<u>S</u>	econdary India	
Type: Depth (inch demarks: YDROLOG Vetland Hydro rimary Indicate	hes): Ology Indicators: cors (minimum of or	ne is requi	Water-Stai				<u>S</u>	econdary India	cators (2 or more required) ned Leaves (B9) (MLRA 1,
Type: Depth (inch demarks: YDROLOG Vetland Hydro rimary Indicate Surface Wa High Water Saturation	hes): ology Indicators: ors (minimum of orater (A1) r Table (A2) (A3)	ne is requi	Water-Stai	ned Lea 1, 2, 4A,			<u>S</u>	econdary Indio Water-Stair 4A, and	cators (2 or more required) ned Leaves (B9) (MLRA 1,
Type: Depth (inch Remarks: YDROLOG Vetland Hydro rimary Indicate Surface Wa	hes): ology Indicators: ors (minimum of orater (A1) r Table (A2) (A3)	ne is requi	Water-Stai	ned Lea 1, 2, 4A, (B11)	and 4B)		<u>S</u>	econdary Indio Water-Stair 4A, and Drainage P	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B)
Type: Depth (inch demarks: YDROLOG Vetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment D	hes): blogy Indicators: bors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	ne is requi	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen	ned Lear 1, 2, 4A, (B11) /ertebrate Sulfide C	and 4B) es (B13) odor (C1)		<u>S</u>	econdary Indio Water-Stair 4A, and Drainage P	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10)
Type: Depth (inch temarks: YDROLOG Vetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos	hes): close Indicators: cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3)	ne is requi	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C	es (B13) dor (C1) eres on L) Living Ro	<u>S</u>	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2)
Type: Depth (inch temarks: YDROLOG Vetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o	hes): cology Indicators: cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	ne is requi	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C Rhizospher of Reduce	es (B13) odor (C1) eres on L) Living Ro	oots (C3)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation V Geomorphic	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) Water Table (C2) Visible on Aerial Imagery (Cc Position (D2) uitard (D3)
Type: Depth (inch Remarks: YDROLOG Vetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos	hes): close indicators: cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	ne is requi	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C Rhizospho of Reduce n Reduce	es (B13) dor (C1) eres on L ed Iron () Living Ro C4) lled Soils	Si (C6)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphic Shallow Aq FAC-Neutra	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //isible on Aerial Imagery (Catorial Catorial Cat
Type: Depth (inch lemarks: YDROLOG Vetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So	hes): close indicators: cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sill Cracks (B6)		Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C Rhizosphe of Reduct Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (tion in Til) Living Ro C4) lled Soils	Si (C6)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphic Shallow Aq FAC-Neutra Raised Ant	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //sible on Aerial Imagery (Car Position (D2) uitard (D3) nl Test (D5) Mounds (D6) (LRR A)
Type: Depth (inch emarks: YDROLOG Yetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So Inundation	hes): ology Indicators: ors (minimum of orater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial In	nagery (B7	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C Rhizosphe of Reduct Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (tion in Til) Living Ro C4) lled Soils	Si (C6)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphic Shallow Aq FAC-Neutra Raised Ant	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //isible on Aerial Imagery (Catorial Catorial Cat
Type: Depth (inch emarks: YDROLOG Vetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely Ve	hes): cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Integetated Concave	nagery (B7	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C Rhizosphe of Reduct Reduct Stressed	es (B13) dor (C1) eres on L ed Iron (tion in Til) Living Ro C4) lled Soils	Si (C6)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphic Shallow Aq FAC-Neutra Raised Ant	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //sible on Aerial Imagery (Car Position (D2) uitard (D3) nl Test (D5) Mounds (D6) (LRR A)
Type: Depth (inch temarks: YDROLOG Vetland Hydro rimary Indicate Surface Wa High Water Saturation Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely Veteld Observation	hes): close Indicators: cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aerial Integetated Concave tions:	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C chizospho of Reduct n Reduct Stressed dain in R	es (B13) dor (C1) eres on L ed Iron (ion in Til d Plants emarks)) Living Ro C4) lled Soils	Si (C6)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphic Shallow Aq FAC-Neutra Raised Ant	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //sible on Aerial Imagery (Car Position (D2) uitard (D3) nl Test (D5) Mounds (D6) (LRR A)
Type: Depth (inch Remarks: YDROLOG Vetland Hydro rimary Indicate Surface Water Saturation Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely Vot ield Observat urface Water I	hes): close Indicators: cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aerial Integetated Concave tions: Present? Yes	nagery (B7 Surface (E	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C thizospho of Reduct n Reduct Stressed blain in R	es (B13) dor (C1) eres on L ed Iron (ion in Til d Plants emarks)) Living Ro C4) lled Soils	Si (C6)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphic Shallow Aq FAC-Neutra Raised Ant	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //sible on Aerial Imagery (Car Position (D2) uitard (D3) nl Test (D5) Mounds (D6) (LRR A)
Type: Depth (inch Remarks: YDROLOG Vetland Hydro Primary Indicate Surface Water Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely Votel of the Color of the Col	hes): plogy Indicators: cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sill Cracks (B6) Visible on Aerial Integetated Concave tions: Present? Yes	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C thizosphoof Reduct n Reduct Stressed Idain in R	es (B13) bdor (C1) eres on L ed Iron (id Plants emarks) anches):) Living Ro C4) lled Soils	oots (C3)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphic Shallow Aq FAC-Neutra Raised Ant Frost-Heave	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //sible on Aerial Imagery (Care Position (D2) uitard (D3) nl Test (D5) Mounds (D6) (LRR A) ne Hummocks (D7)
Type: Depth (inch Remarks: YDROLOG Vetland Hydro Frimary Indicate Surface Water Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely Vetled Observate urface Water It	hes): cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aerial Integetated Concave tions: Present? Yes sent? Yes	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C thizospho of Reduct n Reduct Stressed blain in R	es (B13) bdor (C1) eres on L ed Iron (id Plants emarks) anches):) Living Ro C4) lled Soils	oots (C3)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphic Shallow Aq FAC-Neutra Raised Ant	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //sible on Aerial Imagery (Care Position (D2) uitard (D3) nl Test (D5) Mounds (D6) (LRR A) ne Hummocks (D7)
Type: Depth (inch Remarks: YDROLOG Vetland Hydro Frimary Indicate Surface Water Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely Veter Veter Table Production Presencludes capilla	hes): cology Indicators: cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Integetated Concave tions: Present? Yes sent? Yes ary fringe)	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp No No No	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C thizosphoof Reduct on Reduct Stressed clain in Reduct Depth (in Depth (in	es (B13) dor (C1) eres on L ed Iron (id Plants emarks) enches): enches): enches):	Living Ro C4) lled Soils (D1) (LF	oots (C3)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //sible on Aerial Imagery (Care Position (D2) uitard (D3) nl Test (D5) Mounds (D6) (LRR A) ne Hummocks (D7)
Type: Depth (inch lemarks: YDROLOG Vetland Hydro rimary Indicate Surface Water Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely Veter Veter Table Production Presencludes capilla	hes): cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) sil Cracks (B6) Visible on Aerial Integetated Concave tions: Present? Yes sent? Yes	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp No No No	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C thizosphoof Reduct on Reduct Stressed clain in Reduct Depth (in Depth (in	es (B13) dor (C1) eres on L ed Iron (id Plants emarks) enches): enches): enches):	Living Ro C4) lled Soils (D1) (LF	oots (C3)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //sible on Aerial Imagery (Care Position (D2) uitard (D3) nl Test (D5) Mounds (D6) (LRR A) ne Hummocks (D7)
Type: Depth (inch lemarks: YDROLOG Vetland Hydro rimary Indicate Surface Water Water Mark Sediment D Drift Depos Algal Mat of Iron Depos Surface So Inundation Sparsely Veter Veter Table Production Presencludes capilla	hes): cology Indicators: cors (minimum of or ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) Visible on Aerial Integetated Concave tions: Present? Yes sent? Yes ary fringe)	nagery (B7 Surface (B	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized R Presence of Recent Iron Stunted or Other (Exp No No No	ned Lear 1, 2, 4A, (B11) vertebrate Sulfide C thizosphoof Reduct on Reduct Stressed clain in Reduct Depth (in Depth (in	es (B13) dor (C1) eres on L ed Iron (id Plants emarks) enches): enches): enches):	Living Ro C4) lled Soils (D1) (LF	oots (C3)	econdary India Water-Stair 4A, and Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave	cators (2 or more required) ned Leaves (B9) (MLRA 1, 4B) atterns (B10) n Water Table (C2) //sible on Aerial Imagery (Care Position (D2) uitard (D3) nl Test (D5) Mounds (D6) (LRR A) ne Hummocks (D7)

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3: the proponent agency is CECW-COR

Occ ENDOICE TIV-10-5, the proportent agency is OCO	VV-0017
Project/Site: Street Extension City/Count	y: forence / lame Sampling Date:
Applicant/Owner: City of Florence	State: Or. Sampling Point: 5A
Investigator(s): Robe Section, To	wnship, Range: TIBS RIZW SZ7
	icave, convex, none): Conulx Slope (%): 2
Subregion (LRR): <u>LRRA</u> Lat: <u>43.975663</u>	
Soil Map Unit Name: 131C Ridley - Keating Silt loan	
	es X No (If no, explain in Remarks.)
- THE APPLIES OF THE PROPERTY	e "Normal Circumstances" present? Yes X No
	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No No Is the \$	Sampled Area
	a Wetland? Yes X No X
Wetland Hydrology Present? Yes No	
Remarks:	
Upslope of	wettand edge of drainage
VEGETATION – Use scientific names of plants.	1 / 2 1 / 2
Absolute Dominant I	ndicator In Study area
Tree Stratum (Plot size: 10 m Z) % Cover Species?	Status Dominance Test worksheet:
1. Pseudotsuga mensiesii SD y	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3. 4.	Total Number of Dominant Species Z. (B)
Sapling/Shrub Stratum (Plot size: 5m2) 1. Vaccinium Uval Folium 20 V L	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
2/	Prevalence Index worksheet:
3.	Total % Cover of: Multiply by:
4	OBL species x 1 =
5.	FACW species x 2 =
Herb Stratum (Plot size:)	FAC species
1	UPL species V5 = 100
2.	Column Totals: LOO (A) 470 (B)
3.	Prevalence Index = B/A = y 7
4.	
5.	Hydrophytic Vegetation Indicators:
6.	1 - Rapid Test for Hydrophytic Vegetation
7.	2 - Dominance Test is >50%
8	3 - Prevalence Index is ≤3.0 ¹
9.	4 - Morphological Adaptations (Provide supporting
10	data in Remarks or on a separate sheet)
11	5 - Wetland Non-Vascular Plants ¹
Woody Vine Stratum (Plot size:) =Total Cover	Problematic Hydrophytic Vegetation ¹ (Explain)
The state of the s	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1	
=Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum	Present? Yes No
Remarks:	
1 1001 (1001 1100)	

Sampling Point: 54

Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) 1 cm Muck (A9) (LRR D, G) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (F1) (except MLRA 1) Thick Dark Surface (A12) Sandy Mucky Mineral (F3) Endox Dark Surface (F6) Redox Dark Surface (F7) 2.5 cm Mucky Peat or Peat (S2) (LRR G) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Pr Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Salt Crust (B11) Mydre Marks (B1) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Satraped Matrix (S4) Loamy Gleyed Matrix (S4) Loamy Gleyed Matrix (F2) Depleted Dark Surface (F6) Fedox Dark Surface (F6) Fedox Dark Surface (F6) Redox Dark Surface (F6) Fedox Dark Surfa	² Location: PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR A, E) Iron-Manganese Masses (F12) (LRR D) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) 1 cm Muck (A9) (LRR D, G) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 2.5 cm Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Pr Remarks: Water-Stained Leaves (B9) (except High Water Table (A2) Saturation (A3) Saturcust (B11) Aquatic Invertebrates (B13)	² Location: PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR A, E) Iron-Manganese Masses (F12) (LRR D) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) 1 cm Muck (A9) (LRR D, G) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (F1) (except MLRA 1) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) 2.5 cm Mucky Peat or Peat (S2) (LRR G) Redox Depressions (F8) Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Pr Remarks: YDROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) Sec Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) Saturation (A3) Salt Crust (B11) Aquatic Invertebrates (B13)	² Location: PL=Pore Lining, M=Matrix. cators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR A, E) Iron-Manganese Masses (F12) (LRR D) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Gleyed Matrix (S4) Histic Epipedon (A2) Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Setrictive Layer (If observed): Type: Depth (inches): Hydric Soil Pr Remarks: YDROLOGY Vetland Hydrology Indicators: Primary Indicators (innimum of one is required; check all that apply) Surface Water (A1) Hydrac Gall that apply) Second Type: Mucky Pear or Pear (S2) Mucky Painer Table (A2) Saturation (A3) Salt Crust (B11) Aquatic Invertebrates (B13)	cators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR A, E) Iron-Manganese Masses (F12) (LRR D) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks) icators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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rype: Depth (inches): Mydric Soil Preserved: Procedure of the served o	Λ.
Type: Depth (inches): Hydric Soil Presents: Final Hydrology Indicators: Fina	esent? YesNo
Type: Depth (inches): Wetland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Hydric Soil Properties Method 1	esent? Yes No
Depth (inches): Hydric Soil Procedures: Wetland Hydrology Indicators: rimary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Water Marks (B1) Hydric Soil Procedures Wetland Hydrology Section MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	esent? Yes No
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rimary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Second S	
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High Water Table (A2) Saturation (A3) Water Marks (B1) MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2
Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13)	4A, and 4B)
	Drainage Patterns (B10)
	Dry-Season Water Table (C2)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagery (C9
Drift Deposits (B3) Oxidized Rhizospheres on Living Roots (C3)	Geomorphic Position (D2)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)Stunted or Stressed Plants (D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	
eld Observations:	
urface Water Present? Yes No Depth (inches):	
/ater Table Present? Yes No Depth (inches):	
- 1916 March 1916 1917 Co. 1917 - 1917 March 1917 - 1917 Co. 1917 March 1917	
ncludes capillary fringe)	rology Present? Yes No
escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	

U.S. Army Corps of Engineers

WETLAND DETERMINATION DATA SHEET – Western Mountains, Valleys, and Coast Region See ERDC/EL TR-10-3; the proponent agency is CECW-COR

OMB Control #: 0710-0024, Exp: 06/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: S1 and EVI		City/Cou	nty: Fla	rence / love Sampling Date: 10/09
Applicant/Owner: City of Florence		_ Oily/Cou	110	State: O.R. Sampling Point: 5B
Investigator(s): Raha		Section 7	Township, R	
				vex, none): CVN Call Slope (%): 4
				-124.115049 Datum: NAD8
Soil Map Unit Name: 131C Ricky - Kes				
Are climatic / hydrologic conditions on the site typical				
Are Vegetation, Soil, or Hydrology				
Are Vegetation , Soil , or Hydrology				
				ocations, transects, important features, etc.
Hydric Soil Present? Yes	No No		e Sampled A	~
Remarks:				
VEGETATION – Use scientific names of	nlante			
	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 10 m 2)	% Cover	Species?	Status	Dominance Test worksheet:
1. Arnus rubra	37)	4_	PAC	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3	_			Total Number of Dominant Species Across All Strata: (B)
		Total Cover		Percent of Dominant Species That
Sapling/Shrub Stratum (Plot size: 5 m 2)		a.c	Are OBL, FACW, or FAC:
1. Rubus Spectabollis	90	yes_	1/1-	Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
4.				OBL species x 1 =
5	1/2			FACW species x 2 =
Herb Stratum (Plot size:)	40 =	Total Cover		FAC species
1				UPL species x5=
2.				Column Totals: 120 (A) 360 (B)
3.				Prevalence Index = B/A = 3
4.	-			Midesphide Verstaling Indicators
6.				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7,				₹ 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.01
9.				4 - Morphological Adaptations (Provide supporting
10				data in Remarks or on a separate sheet)
11		Total Cover		5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:		Total Gover		¹Indicators of hydric soil and wetland hydrology must
1.				be present, unless disturbed or problematic.
2.				Hydrophytic
% Bare Ground in Herb Stratum		Total Cover		Vegetation Present? Yes No
Remarks:				

Sampling Point: 58

Profile Description: (Des Depth Ma	atrix		Red	ox Featur	res					
inches) Color (mo	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-1 1042	311	100					muchysand			
1-6 10483	3/1 6	95	54896	5	1	M				
6-20 1048	6/2	90	54R576	10	-	M				
					=		SING			
Type: C=Concentration, D						oated Sa			PL=Pore Lining, M=	
Histosol (A1)			Sandy GI	eyed Mat	rix (S4)			2 cm Muc	k (A10) (LRR A, E)	
Histic Epipedon (A2)			Sandy Re	edox (S5)				Iron-Mang	ganese Masses (F12)	(LRR D)
Black Histic (A3)			Stripped I	Matrix (Se	6)			Red Parei	nt Material (F21)	
Hydrogen Sulfide (A4)			Loamy M	ucky Mine	eral (F1)	except	MLRA 1)	Very Shal	low Dark Surface (F2	2)
1 cm Muck (A9) (LRR	D, G)		Loamy Gl	leyed Mat	trix (F2)			Other (Ex	plain in Remarks)	
Depleted Below Dark S	Surface	(A11)	Depleted	Matrix (F	3)					
Thick Dark Surface (A1	12)		Redox Da	ark Surfac	e (F6)		3In	dicators of h	hydrophytic vegetatio	n and
Sandy Mucky Mineral ((S1)		Depleted	Dark Sur	face (F7)			wetland h	ydrology must be pre	sent,
2.5 cm Mucky Peat or I	Peat (S	2) (LRR	G) Redox De	pression	s (F8)			unless disturbed or problematic.		
estrictive Layer (if obser										
Restrictive Layer (if obserting type: Depth (inches): Remarks:							Hydric Soil P	resent?	Yes &	No_
Type: Depth (inches): Remarks: YDROLOGY							Hydric Soil P	resent?	Yes <u>b</u>	No_
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica	ators:	e is regu	ired: check all that	annivi					Yes Allicators /2 or more re-	
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indica Primary Indicators (minimum	ators:	e is requ			ves (B9)	(except		condary Ind	Yes Licators (2 or more recipred Leaves (B9) (M)	quired)
Type: Depth (inches): Remarks: YDROLOGY Vetland Hydrology Indicators (minimus Surface Water (A1)	ators: m of one	e is requ	Water-Sta	ained Lea				condary Ind Water-Sta	ined Leaves (B9) (MI	quired)
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Appendix C Ground-Level Color Photographs

Photo 1 (facing north toward Wetland 1)



Photo 2 (facing west)



Photo 3 (facing west)

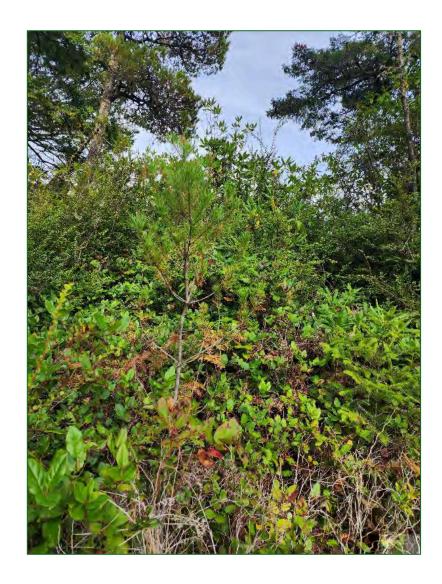


Photo 4 (facing northwest, down to Wetland 1)

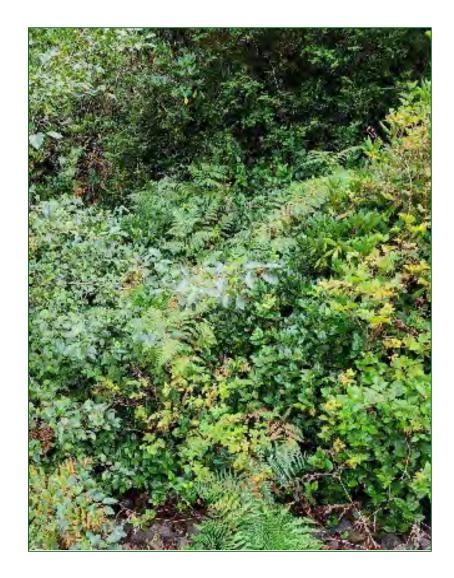
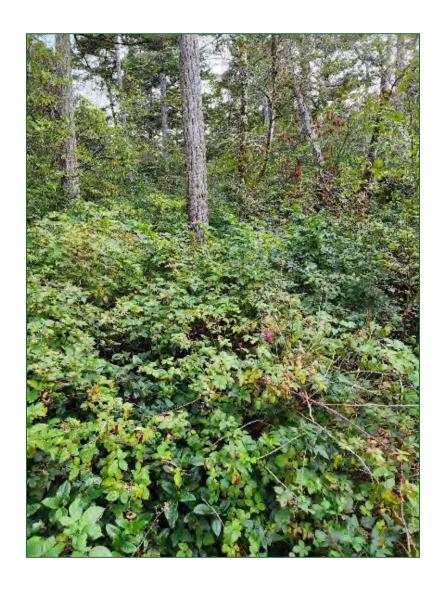


Photo 5 (facing north)



Photo 6 (facing south)



Appendix D References

- Environmental Laboratory. (1987). *Technical report Y-87-1* (Corps of Engineers Wetland Delineation Manual). Vicksburg, Mississippi: U.S. Army Corps of Engineers Waterways Experiment Station.
- Munsell Color Services. (2005). *Munsell soil color charts: Revised washable edition*. New Windsor, New York: Division of Gretag Macbeth, LLC.
- Lichvar, R.W., D.L. Banks, W.N. Kirchner, and N.C. Melvin (2018). State of Oregon 2018 Wetland Plant List. U.S. Army Corps of Engineers. 28 pp.
- U.S. Army Corps of Engineers. (1992). *Clarification and interpretation memorandum of the* 1987 manual. Washington, DC: U.S. Government. 4pp.
- U.S. Army Corps of Engineers. (2010). Regional Supplemental to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0) Technical Report ERDC/EL TR-10-3. Vicksburg, Mississippi: U.S. Army Corps of Engineers Research and Development Center.





Wetland Delineation Report for the NW 9th Street Neighborhood Project

6 messages

Mike Miller <mike.miller@ci.florence.or.us></mike.miller@ci.florence.or.us>	Thu, Dec 5, 2024 at 3:25 PM
To: Jacob Foutz <jacob.foutz@ci.florence.or.us></jacob.foutz@ci.florence.or.us>	
Cc: Erin Reynolds <erin.reynolds@ci.florence.or.us>, Wendy Farley-Campb</erin.reynolds@ci.florence.or.us>	ell <wendy.farleycampbell@ci.florence.or.us>,</wendy.farleycampbell@ci.florence.or.us>
Layne Morrill <klaynemorrill@gmail.com>, Jeff Ballard <jballard@rh2.com></jballard@rh2.com></klaynemorrill@gmail.com>	

Hi Jacob,

Attached is the final Wetland Delineation Report for our NW 9th Street Neighborhood Project. We found two wetlands, but no waterways within the project street areas. Wetlands 1 is 0.133 acres in size and Wetland 2 is 0.004 acres in size. I have asked our consultant to submit the report for concurrence with DSL and US Army Corps of Engineers.

Below is a capture of figure 6 of the delineation area. According to the map, Wetland 1 is within the right-of-way for 11th and Fir streets. It is not on 1812273101100. As mentioned in my previous email, since the wetland will be impacted by the construction of the street, the City will mitigate our impacts for a net zero loss of wetlands.

Mike Miller
Public Works Director
mike.miller@ci.florence.or.us
(541) 997-4106
Mailing Address:

City of Florence 250 Hwy 101

Florence, OR 97439

Physical Address:

2675 Kingwood Street

Florence, OR 97439



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Wetland delineation Florence Streets 12052024.pdf 5110K

Layne Morrill <klaynemorrill@gmail.com>

Fri, Dec 6, 2024 at 8:38 AM

To: Mike Miller <mike.miller@ci.florence.or.us>

Cc: Jacob Foutz < Jacob. Foutz@ci.florence.or.us>, Erin Reynolds < erin.reynolds@ci.florence.or.us>, Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us>, Jeff Ballard <jballard@rh2.com>

Thanks, Mike.

[Quoted text hidden]

Layne Morrill <klaynemorrill@gmail.com>

Fri, Dec 6, 2024 at 12:57 PM

To: Mike Miller <mike.miller@ci.florence.or.us>

Cc: Jacob Foutz < Jacob. Foutz@ci.florence.or.us>, Erin Reynolds < erin.reynolds@ci.florence.or.us>, Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us>, Jeff Ballard <jballard@rh2.com>

Hi Wendy and Jacob:

We view this email and the underlying Wetlands Delineation Report as the City's acknowledgment that the two wetlands are in the right of way not on the EPA Site and the City will take all measures to assure net zero loss of wetlands.

Please make this email and Wetlands Report part of the record in our pending land use proceedings and please note, in the Staff Report, that upon issuance of the Public Works land use permit that is on the PC agenda for 12-27-24, the 65' setback at the NW corner of the EPA site can be modified as requested in our PUD Application.

Mike, please confirm that the City's Engineer has modified the design of the NW corner of the intersection of Greenwood and 10th so that our eight parallel parking spaces for the ELF are accommodated, as requested in my previous email request and subsequent follow-up. We need this confirmation before our December 17 PC hearing. Thanks.

Layne Morrill
OUR COASTAL VILLAGE, INC.
CHESTNUT MANAGEMENT, LLC
602-432-6291

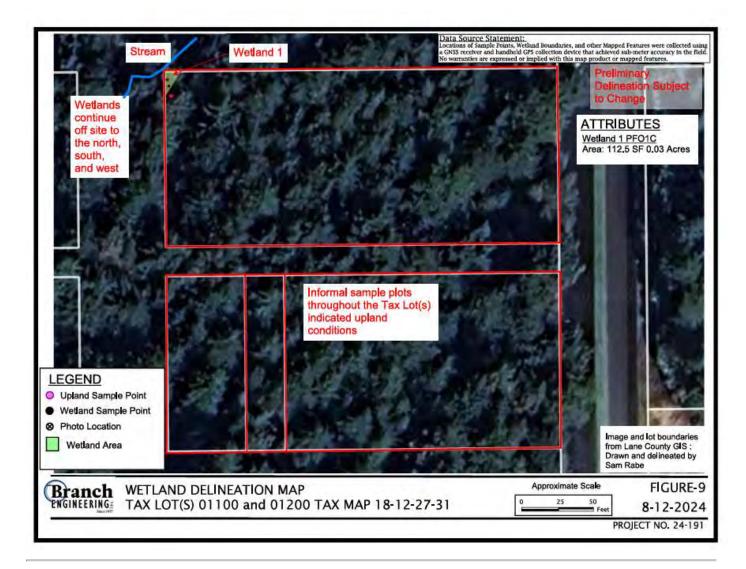
On Thu, Dec 5, 2024 at 3:26 PM Mike Miller <mike.miller@ci.florence.or.us> wrote: [Quoted text hidden]

Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us> Fri, Dec 6, 2024 at 1:53 PM To: Layne Morrill <klaynemorrill@gmail.com>, Mike Miller <mike.miller@ci.florence.or.us> Cc: Jacob Foutz <Jacob.Foutz@ci.florence.or.us>, Erin Reynolds <erin.reynolds@ci.florence.or.us>, Jeff Ballard <jballard@rh2.com>

Layne,

Thank you for your email. Staff will include this wetlands study into the record for the Elm Park PUD and apts. For clarity, it's findings do not replace the wetland study performed by Branch and included in your application record. It found wetlands on your site that are part of the area's drainage system and by Branch's account appear to connect to the infrastructure wetlands. We will be reviewing the reports in more detail with regard to collection methodologies and data to evaluate how to rectify the apparently conflicting reports about wetland continuity.

Wendy



From: Layne Morrill <klaynemorrill@gmail.com> Sent: Friday, December 6, 2024 11:57:37 AM

To: Mike Miller

Cc: Jacob Foutz; Erin Reynolds; Wendy Farley-Campbell; Jeff Ballard

Subject: Re: Wetland Delineation Report for the NW 9th Street Neighborhood Project

[Quoted text hidden]

Jeff Ballard <jballard@rh2.com>

Fri, Dec 6, 2024 at 2:24 PM

To: Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us>, Layne Morrill <klaynemorrill@gmail.com>, Mike Miller <mike.miller@ci.florence.or.us>

Cc: Jacob Foutz < Jacob.Foutz@ci.florence.or.us>, Erin Reynolds < erin.reynolds@ci.florence.or.us>

Wendy,

The discrepancy is with respect to the shown location of the property boundaries. The two reports identify the same area as wetland, the maps just show it in different locations with respect to boundaries. Neither of the wetland maps are accurate to survey level accuracy, both used GIS layers from outside sources as stated on the maps.

I believe that the mapping shown by Rabe Consulting has a higher level of accuracy since it is tied to the lidar that we collected on the site by a PLS. If we need a higher level of clarification on this topic it can be

provided.

The important part is that the wetland is accounted for accurately in size and our impacts will be accounted for.

Hope this helps.

Thanks.

Jeff Ballard | RH2 Engineering, Inc.

O: 541.210.8151

C: 541.301.1555

[Quoted text hidden]

Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us>

Fri, Dec 6, 2024 at 2:27 PM

To: Jeff Ballard <jballard@rh2.com>, Layne Morrill <klaynemorrill@gmail.com>, Mike Miller <mike.miller@ci.florence.or.us> Cc: Jacob Foutz <Jacob.Foutz@ci.florence.or.us>, Erin Reynolds <erin.reynolds@ci.florence.or.us>

Jeff,

Thank you very much for this quick response and explanation going into the weekend. It did help.

Regards, Wendy

Get Outlook for iOS

From: Jeff Ballard < jballard@rh2.com>
Sent: Friday, December 6, 2024 3:24:52 PM

To: Wendy Farley-Campbell <wendy.farleycampbell@ci.florence.or.us>; Layne Morrill

<klaynemorrill@gmail.com>; Mike Miller <mike.miller@ci.florence.or.us>

Cc: Jacob Foutz < Jacob. Foutz@ci.florence.or.us>; Erin Reynolds < erin.reynolds@ci.florence.or.us>

Subject: RE: Wetland Delineation Report for the NW 9th Street Neighborhood Project

[Quoted text hidden]

2 attachments



image001.png 680K



Parks and Recreation Department

Oregon Heritage/
State Historic Preservation Office
725 Summer St. NE, Suite C
Salem, OR 97301-1266
(503) 986-0690
Fax (503) 986-0793
oregonheritage.org



December 4, 2024

Erin Renolds City of Florence 250 Hwy 101 Florence, OR 97439

RE: SHPO Case No. 24-1792

Lane County Parcel Nos. 18-12-27-31-01100 and -01200 cultural survey Proposed construction of a 38-unit affordable rental housing development and early learning facility. 18S 12W 27, Lane County

Dear Erin Renolds:

Thank you for submitting information for the project referenced above. According to our records there are no identified archaeological objects or sites (Oregon Revised Statute [ORS] 358.905), and no Native American cairn, burial, human remains, sacred objects and objects of cultural patrimony (ORS 97.740-760) in or adjacent to the project area. Based on the information provided, Oregon SHPO agrees with the recommendation that an archaeological monitor be on site during all ground disturbing activities, due to the low visibility in the project area, and the apparent lack of disturbance to the sediments across the project area.

Under ORS 358.920 and ORS 97.745, archaeological sites, objects and human remains are protected on both state public and private lands in Oregon. Please know that if any archaeological artifacts are found during construction all activity in the area should cease and our office should be contacted. We also advise having an Inadvertent Discovery Plan (IDP) in place during construction. A template is available on our website (https://www.oregon.gov/oprd/OH/pages/projectreviewresources.aspx). The IDP explains what to do in the event of a discovery and provides examples of archaeological materials. Using this form can reduce confusion, risk, and liability.

If the project has a federal nexus (lands, funding, permitting, or oversight) coordinate with the lead federal agency to ensure compliance with Section 106 of the National Historic Preservation Act.

If you have not already done so, be sure to consult with all appropriate Native American tribes regarding the proposed project. Additional consultation regarding this case must be sent through Go Digital. In order to help us track the project accurately, reference the SHPO case number above in all correspondence.

Please contact our office if you have any questions, comments or need additional assistance.

Sincerely,

Kirsten Lopez

Special Projects Archaeologist

(503) 400-4810

Kirsten.Lopez@oprd.oregon.gov

Layne Morrill <klaynemorrill@gmail.com>
To: Jeff Ballard <jballard@rh2.com>
Cc: Mike Miller <mike.miller@ci.florence.or.us>

Tue, Dec 10, 2024 at 9:04 AM

Hi Jeff:

I understand Mike Miller passed on to you the following comment on the 50% plans that I emailed to him on Nov. 1 at 5:21 p.m.

"We need 8 parallel parking spaces (four on Greenwood south of the alley; and four on 10th east of the drop-off lane.

The attached site plan shows this layout.

The curb design shown at the corner of Greenwood and 10th eliminates two of our eight parking spaces.

Can that curb design be reviewed so we keep our 8 parking spaces?"

Our parking layout is again attached.

We need this information for our December 17 PC hearing.

Thanks.

Layne Morrill 602-432-6291

[Quoted text hidden]



Elm Park ELC Design Review Response 24.11.04 FINAL.pdf 12290K

Mike Miller <mike.miller@ci.florence.or.us>
To: Layne Morrill <klaynemorrill@gmail.com>
Cc: Jeff Ballard <jballard@rh2.com>, Kris Lillie <klillie@rh2.com>

Tue, Dec 10, 2024 at 9:30 AM

Hi Layne,

Working through the design, our engineers are looking at creating curb extensions (bulb outs) on the west side of Greenwood at 10th in order to get the sidewalk away from the property line and provide the four stalls on Greenwood and

10th Street. The bulb outs/curb extension also help with getting the crosswalk out of the existing medians.

Also in regards to the comment of the 66 foot right-of-way, the 50% level plans were not labeled correctly. They were drawn at 66 feet, but were simply labeled as 60 feet.

Thank you,

Mike

[Quoted text hidden]

10th and Greenwood Exhibit.pdf
2157K

Tue, Dec 10, 2024 at 9:45 AM

Layne Morrill <klaynemorrill@gmail.com>
To: Mike Miller <mike.miller@ci.florence.or.us>
Cc: Jeff Ballard <jballard@rh2.com>, Kris Lillie <klillie@rh2.com>

Great. Thanks.

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