Wetland Delineation/Determination Report Cover Form

A complete report and signed report cover form, along with applicable review fee, are required before a report review timeline can be initiated by the Department of State Lands. All applicants will receive an emailed confirmation that includes the report's unique file number and other information.

Ways to submit report:

- **Under 50MB** - A single unlocked PDF can be emailed to: wetland.delineation@dsl.oregon.gov.
- **50MB or larger** - A single unlocked PDF can be uploaded to DSL's Box.com website. After upload notify DSL by email at: wetland.delineation@dsl.oregon.gov.
- Unbound paper report and signed cover form can be mailed to: Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, Oregon 97301-1279.

Ways to pay review fee:

- By credit card on DSL's epayment portal after receiving the unique file number from DSL's emailed confirmation.
- By check payable to the Oregon Department of State Lands attached to the paper report OR attached to the complete signed cover form if report submitted electronically.

Contact and Authorization Information

☒ Applicant ☐ Owner Name, Firm and Address: City of Lincoln City Attn: Alison Robertson PO Box 50 Lincoln City, Oregon 97367	Business phone # 541-996-1207 Mobile phone # *(optional)* E-mail: arobertson@lincolncity.org
☐ Authorized Legal Agent, Name and Address:	Business phone # Mobile phone # E-mail:

I either own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification to the primary contact.

Typed/Printed Name: _____ **Signature**: _____

Date: _____ Special instructions regarding site access: Please call ahead before accessing site.

Project and Site Information

Project Name: Baldy Creek Wetland Delineation	Latitude 44.9437760° Longitude: -124.0208613° **decimal degree** - *centroid of site or start & end points of linear project*			
Proposed Use: Community Boardwalk and Plaza	Tax Map # 07 11 22 DC Tax Lot(s) 3100	Tax Map # 07 11 27 BA Tax Lot(s) 11200, 11201, 11202, 11300, 11400, 11500, 11600, 11700, 11800, 11900		
	Tax Map # 07 11 22 CD Tax Lot(s) 13600, 13603, 13700			
Project Street Address (or other descriptive location): SW 29th Street to SW 35th Street	Township 7S	Range 11W	Section 22, 27	QQ 22: SWSE, SWSW 27: NWNW
	Use separate sheet for additional tax and location information			
City: Lincoln City County: Lincoln	Waterway: N/A	River Mile: N/A		

Wetland Delineation Information

Wetland Consultant Name, Firm and Address: PBS Engineering and Environmental LLC, Attn: Hailey Gilliland 4412 S Corbett Avenue Portland, Oregon 97239	Phone # (503) 417-7587 Mobile phone # E-mail: hailey.gilliland@pbsusa.com

The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge.

Consultant Signature: Date:

Primary Contact for report review and site access is ☒ Consultant ☐ Applicant/Owner ☐ Authorized Agent

Wetland/Waters Present? ☒ Yes ☐ No | Study Area size: 5.06 ac. Wetlands: 1.82 ac. (total) Waters: 0.48 ac.

Check Applicable Boxes Below

☐ R-F permit application submitted	☒ Fee payment submitted $571
☐ Mitigation bank site	☐ Resubmittal of rejected report ($100)
☐ EFSC/ODOE Project Manager:	☐ Request for Reissuance. See eligibility criteria. (no fee)
☐ Wetland restoration/enhancement project (not mitigation)	DSL# _____ Expiration date _____
☐ Previous delineation/application on parcel If known, previous DSL #	☒ LWI shows wetlands or waters on parcel Wetland ID code SCC-12, SCC-14

For Office Use Only

DSL Reviewer: _____ Fee Paid Date: _____ / _____ / _____ DSL WD # _____

Date Delineation Received: ___ / ____ / ____ Scanned: ☐ Electronic: ☐ DSL App. # _____

Baldy Creek Wetland Delineation

SW 29th Street to SW 35th Street
Lincoln City, Oregon

Prepared for:
City of Lincoln City
PO Box 50
Lincoln City, Oregon 97367

February 6, 2025
PBS Project 24011321

PBS
AN APEX COMPANY
4412 S CORBETT AVENUE
PORTLAND, OR 97239
503.248.1939 MAIN
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PBSUSA.COM

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INTRODUCTION

PBS Engineering and Environmental LLC (PBS) was contracted by the City of Lincoln City (Client) to conduct a wetland delineation to better understand the riparian and wetland conditions of a section of Baldy Creek, and how they may impact future public and private redevelopment projects or improvements. The study area is in Lincoln City, Oregon (Figure 1), and is divided into three separate, smaller study areas, referred to as the northern, central, and southern study areas. Table 1 provides a summary of the study area.

Table 1. Study Area Summary

Study Area	Acres	Tax Lot	Tax Map	Physical Address
Northern	1.15	3100	7 11 22 DC	No physical address
	1.01	13600	7 11 22 CD	No physical address
Central	0.39	13603	7 11 22 CD	No physical address
	0.33	13700	7 11 22 CD	737 SW 32nd Street
Southern	0.98	11200	7 11 27 BA	3401 SW Highway 101
	0.08	11201	7 11 27 BA	3305 SW Highway 101
	0.08	11202	7 11 27 BA	3313 SW Highway 101
	0.13	11300	7 11 27 BA	3259 SW Highway 101
	0.10	11400	7 11 27 BA	3247 SW Highway 101, 3251 SW Highway 101
	0.11	11500	7 11 27 BA	3243 SW Highway 101
	0.42	11600	7 11 27 BA	3219 SW Highway 101, 3229 SW Highway 101, 3237 SW Highway 101
	0.08	11700	7 11 27 BA	No physical address
	0.20	11800	7 11 27 BA	712 SW 32nd Street
	0.17	11900	7 11 27 BA	3203 SW Highway 101, 3205 SW Highway 101

Source: ORMAP, 2025

The study area measures 5.06 acres in ArcGIS Pro but measures 5.23 acres when adding the tax lot acreages presented in the tax lot maps (Figures 2A–2C) and Table 1 above. The discrepancy appears to be that the labeled acreages are wrong on some of the tax lot maps. For example, tax lot 1202 is shown as 0.08 acre on tax map 7 11 27 BA but actually measures 0.01 acre using geographic information system (GIS).

PBS fieldwork and reporting were conducted by Hailey Gilliland, wetland scientist, and Tom Dee, Professional Wetland Scientist.

LANDSCAPE SETTING AND LAND USE

The study area is within the Coast Range–Coastal Lowlands ecoregion. This ecoregion "contains beaches, dunes, and marine terraces below 400 feet elevation. Wet forests, lakes, estuarine marshes, and tea-colored (tannic) streams are characteristic features of the landscape. Wetlands have been widely drained and converted to dairy pastures" (Thorson et al., 2003). Based on the 2020 US Army Corps of Engineers (USACE) National Coastal Mapping Program (NCMP) Topobathy Lidar, study area elevations range from 23 to 54 feet (North American Vertical Datum 88 [NAVD88]) (USACE, 2020).

Land use within the study area includes commercial, municipal (public restroom and parking), fraternal (Fraternal Order of Eagles outpost), and undeveloped forest. The study area is bounded by Highway 101,

sidewalks, and commercial development to the east, by a public parking lot and SW 35th Street to the south, and by dense residential development to the west and north. The Pacific Ocean and public beaches are about 600 feet to the west.

Plant communities within the wetland consist of red alder (*Alnus rubra*), red elderberry (*Sambucus racemosa*), slough sedge (*Carex obnupta*), creeping buttercup (*Ranunculus repens*), yellow-flag iris (*Iris pseudacorus*), and skunk cabbage (*Lysichiton americanus*). Upland communities consist of Sitka spruce (*Picea sitchensis*), red alder, red elderberry, English holly (*Ilex aquifolium*), salmonberry (*Rubus spectabilis*), Himalayan blackberry (*Rubus armeniacus*), and sword-fern (*Polystichum munitum*).

The study area is within a subtle ravine that trends down gently to the southwest at about 1% slope. The hillslopes of the ravine are generally steep (10 to 40% slope) and are composed mostly of artificial fill with some modified natural topography. The southern part of the study area has higher, steeper slopes to the east and relatively flat surfaces to the west.

SITE ALTERATIONS

The study area has been significantly altered from its natural condition. Highway 101 and several secondary streets were constructed along and through the natural flow path of Baldy Creek and two smaller tributary streams. This construction altered the alignment of the streams, constrained the streams within artificial hillslopes and culverts, altered natural flow of surface runoff and groundwater, and likely filled wetland areas.

A few sanitary sewer manholes were observed within the study area. The sewer was likely constructed by trenching and backfilling with bedding material and native material. The construction of the sanitary sewer resulted in a small amount of wetland fill and a small effect on groundwater movement through the sandy soils.

The construction of the Eagles Lodge and associated parking lot and the residences west of Baldy Creek included grading areas flat near the edge of the creek and possibly filling wetland areas to create lawns. The commercial development east of Baldy Creek occupies a terraced and modified hillslope that was most likely constructed at the same time as Highway 101. These activities likely filled wetland areas as well. Most of the development within the study area occurred prior to 1975. Prior to development, there was likely a larger floodplain surrounding Baldy Creek.

PRECIPITATION DATA AND ANALYSIS

Monthly precipitation data were obtained from the Lincoln City 1.0 SSW, Oregon climate station and WETS data was obtained from the Otis 2 NE, Oregon climate station via the National Oceanic and Atmospheric Administration (NOAA) Regional Climate Centers Applied Climate Information System (AgACIS) website (NOAA, 2025). The Antecedent Precipitation Tool (Environmental Protection Agency [EPA], 2025) was used to analyze rainfall for the three months prior to the field investigation (Appendix C). No rain was observed on the days of fieldwork, but there was heavy rainfall in the two weeks prior to the field investigation. Rainfall for the water year-to-date was slightly above average but within the range of normal (Table 2), and precipitation for the three-month period prior to the field visit was normal (Appendix C). The WETS table describes the growing season as extending from approximately February 1 to December 23 of each year. The field investigation was inside the growing season.

Table 2. Precipitation Summary

Site Visit Date	Precipitation Day of Site Visit (in.)	Precipitation Two Weeks Prior to Site Visit (in.)	Average Water Year-to-Date (in.)	Actual Water Year-to-Date (in.)	Percent of Normal	Relation to Normal
12/03/2024	0.00	7.47	23.63	25.95	110%	Normal
12/04/2024	0.00	6.40	24.15	25.95	107%	Normal

METHODS

The field investigation was conducted on December 3 and December 4, 2025. The wetland delineation was based on the routine determination method presented in the USACE *Wetlands Delineation Manual* (Environmental Laboratory, 1987) and guidance presented in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys and Coast Supplement* (Version 2.0) (USACE, 2010). Soils, vegetation, and indicators of hydrology were recorded at 10 sample plot locations on standard wetland determination data forms (Appendix A). Wetland indicator status was assigned based on the Regional Wetland Plant List for the Northwest Mountains, Valleys, and Coast (USACE, 2022a). Paired plot locations were established to demonstrate contrast in soils, hydrology, and plant communities.

Non-wetland waters were delineated according to guidance provided by the Oregon Department of State Lands (DSL) and USACE, which differs for each agency. The USACE-regulated ordinary high water mark (OHWM) was delineated according to Guidance Letter 05-05 (USACE, 2005) and *National Ordinary High Water Mark Field Delineation Manual for Rivers and Streams: Interim Version* (USACE, 2022b). The DSL-regulated ordinary high water line (OHWL) was delineated based on guidance presented in Oregon Administrative Rule (OAR) 141-085-0515(3)(a-f) (2009).

DESCRIPTION OF ALL WETLANDS AND OTHER NON-WETLAND WATERS

The field investigation identified four wetlands, four tributaries, two ditches, and Baldy Creek (Figures 6A–6C).

Wetland A (0.17 acres, 7,554 square feet)

Wetland A is a freshwater wetland located in the northern part of the northern study area. The wetland is classified as palustrine forested (PFO) using the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin et al., 1979), referred to henceforth as "Cowardin" and classified as depressional (D), valley slope (SV), and riverine flow-through (RFT) using the *Guidebook for Hydrogeomorphic (HGM)-based Assessment of Oregon Wetland and Riparian Sites: Statewide Classification and Profiles* (Adamus, 2001), referred to henceforth as "HGM."

Wetland A forms in a depression south of SW 29th Street, continues downslope to the southwest through a narrow ravine, widens into a larger depression in the lower valley bottom, and then narrows to form a channel containing Tributary 1. Wetland A meets the confluence with Baldy Creek and extends north and south along the northern fringe of the creek. There is a small amount of wetland below ordinary high water on the north side of Baldy Creek. Wetland A is bounded by topography on all sides, except for where it is bounded by Baldy Creek to the east.

An earthen berm, populated by well-established trees, trends southwest from the northeastern corner of the northern study area. No disturbance is visible in aerial imagery dating back to the mid-1980s, and it is apparent that the berm was constructed many years ago. Wetland A is dominated by red alder, red elderberry, skunk cabbage, and slough sedge. Hydrology is provided by surface runoff, groundwater, direct precipitation, and Baldy Creek. Wetland A continues off site to the north, west, and south.

Wetland B (0.65 acres, 28,529 square feet)
Wetland B is a freshwater wetland that occurs within the northern and central study areas. Permission to enter the properties between the northern and central study areas was not granted, but visual observations, aerial imagery, and lidar imagery indicate that Wetland B is a contiguous wetland that spans the area between SW 29th Street and SW 32nd Street. The wetland is classified as PFO using Cowardin and classified as VS and RFT using HGM.

Wetland B occurs on a relatively flat terrace between the toe of slope and Baldy Creek. The terrace was likely an active floodplain before development occurred but now seldom receives overbank flow. Wetland B is bounded by a relatively steep hillslope to the east and by Baldy Creek to the west. There is a small portion of wetland that extends west of the creek near the Eagles Lodge parking lot. This sliver of wetland is bound by topography and fill from the parking lot to the west.

Wetland B is dominated by red alder, red elderberry, skunk cabbage, and slough sedge. Wetland B is a relatively flat wetland that frequently gets flooded by Baldy Creek. Hydrology is provided by groundwater, surface runoff, direct precipitation, and flows from Baldy Creek. Wetland B extends outside of the northern study area to the east and southwest. Wetland B extends outside the central study area to the north.

Wetland C (0.07 acres, 2,940 square feet)
Wetland C is a freshwater wetland located on the west side of Baldy Creek in the southern study area. The wetland is classified as PFO using Cowardin and classified as SV using HGM. Wetland C occurs on a terrace between the toe of slope and Baldy Creek. The terrace was most likely an active floodplain prior to development but currently does not receive frequent overbank flow. Wetland C is bounded by Baldy Creek to the east and south and extends outside the study area to the west and north. Wetland C is dominated by red alder and slough sedge. Hydrology is provided by groundwater, surface runoff, and direct precipitation.

Wetland D (0.93 acres, 40,843 square feet)
Wetland D is a freshwater wetland within the southern study area, located on a terrace mostly east of Baldy Creek. The terrace is a former floodplain of Baldy Creek that currently only receives overbank flow during extreme precipitation events. Wetland D is classified as PFO using Cowardin and classified as D and SV using HGM.

Wetland D is bounded by Baldy Creek to the west and a hillslope to the north and east. Some of the foundations and supports of the commercial buildings are within the wetland. A small portion of Wetland D extends below the Ordinary High Water Mark and Ordinary High Water Line (collectively referred to as "OHW") and across to the west side of Baldy Creek in the northern part of the southern study area. The wetland boundary of this small extension of Wetland D is formed by steep fill slopes to the west and north. Vegetation within Wetland D is dominated by Sitka spruce, red alder, and slough sedge. Hydrology is provided by groundwater, surface runoff, and direct precipitation. Wetland D extends outside the study area to the west.

Baldy Creek (0.69 acres, 29,174 square feet, 1,530 linear feet within study area)
Baldy Creek is a freshwater perennial stream that outlets from a large, corrugated aluminum culvert that extends from beneath Highway 101, flows west into the eastern boundary of the northern study area, flows 890 feet to the southwest, and then flows south outside the southern boundary of the northern study area. Baldy Creek flows south into the northern boundary of the central study area, flows for 212 feet, and then flows into a 48-inch squashed corrugated aluminum culvert that extends outside the southern boundary of

the central study area. Baldy Creek flows southwest for 125 feet through the culvert and enters the northern boundary of the southern study area. The creek flows southwest for 125 feet and just barely exits the western study area boundary for a few feet before curving back into the study area. Baldy Creek then flows 450 feet to the south and exits the western boundary of the southern study area. Baldy Creek meets its confluence with the Pacific Ocean about 550 west of the southern study area. Baldy Creek is at about 25 feet above mean sea level where it exits the study area, which is well above Highest Measured Tide.

Baldy Creek is classified as riverine lower perennial (R2) using Cowardin and classified as RFT using HGM. The OHW was delineated at the top of bank along the steep sides of the channel and at areas with evidence of sediment deposits. Baldy Creek has an average width of 23 feet at OHW.

Baldy Creek is somewhat complex, despite the numerous alterations to the stream channel and surrounding landscape. Overall, the stream has moderate sinuosity, but lateral migration has been impeded by berms, fill slopes, culverts, and a sanitary sewer line. Bed variability is moderate, with abundant large wood in the northern and southern study areas creating significant undulations in the profile. The bed and banks are composed of sandy loam. The bed material is fluffy and extremely soft in many places. The banks are well stabilized by slough sedge along most of the stream. Baldy Creek in the northern study area is not deeply entrenched within its channel and frequently connects with its floodplain. The stream becomes more constrained and entrenched within its channel as it flows south and is moderately incised in the central and southern study areas. Riparian vegetation is dominated by slough sedge and red alder. Baldy Creek is well shaded by tall red alder festooned with English ivy (*Hedera helix*).

Tributary 1 (0.002 acres, 95 square feet, 30 linear feet within study area)
Tributary 1 is a freshwater intermittent stream that originates within the portion of Wetland A that is off site to the east of the northern study area. Surface runoff collects in the depressional portion of the wetland and combines to form a defined channel with bed and banks. Tributary 1 flows southeast into the western boundary of the northern study area and then flows southeast for 35 feet before meeting its confluence with Baldy Creek. Tributary 1 contained a small amount of flow from Wetland A and backwater from Baldy Creek during the field investigation. Tributary 1 is classified as riverine intermittent (R4) using Cowardin and classified as RFT using HGM. The OHW was delineated at the top of bank along the steep sides of the channel. Tributary 1 has an average width of 3 feet at OHW.

Within the study area, Tributary 1 is straight and lacks sinuosity, has defined bed and banks, and is deeply incised. The banks are composed of sandy loam and are relatively stable due to the dense slough sedge on the banks. The substrate is composed of sandy silt. Vegetation is dominated by red elderberry, Himalayan blackberry, sword fern, and slough sedge.

Tributary 2 (0.004 acres, 154 square feet, 65 linear feet within study area)
Tributary 2 is a freshwater intermittent stream that emanates from two side-by-side 36-inch corrugated aluminum culverts that extend from beneath Highway 101 into the eastern boundary of the central study area. Tributary 2 flows generally west for 65 feet before converging with Baldy Creek. Tributary 2 is classified as R4 using Cowardin and classified as RFT using HGM. The OHW was delineated at the top of bank along the steep sides of the channel. Tributary 2 has an average width of 2 feet at OHW.

Tributary 2 is a simple channel with linear margins, low bed variability, no sinuosity, and no woody debris. The channel appears to have been excavated and is quite incised along most of its length. The banks are composed of sandy loam and appear susceptible to erosion because of the lack of stabilizing vegetation. The substrate is composed of sandy silt. Riparian vegetation is dominated by Scot's broom (*Cytisus scoparius*),

Himalayan blackberry, reed canarygrass (*Phalaris arundinacea*), and slough sedge. Tributary 2 is not well shaded.

Tributary 3 (0.004 acres, 74 square feet, 75 linear feet within study area)
Tributary 3 is a freshwater intermittent stream that originates on site within Wetland D and flows generally west for 75 feet before converging with Baldy Creek. Tributary 3 is classified as R4 using Cowardin and classified as RFT using HGM. The OHW was delineated at the top of the steep, shallow banks. Tributary 3 has an average width of 1 foot at OHW.

Tributary 3 is a simple channel with moderate sinuosity, low bed variability, and no woody debris. The small channel may have been excavated. The banks are composed of sandy loam and are relatively stable due to the abundant slough sedge lining the channel. The substrate is composed of sandy silt. Riparian vegetation is dominated by Sitka spruce, red alder, and slough sedge. The slough sedge is very dense and obscures the channel in many areas.

Tributary 4 (0.01 acres, 545 square feet, 85 linear feet within study area)
Tributary 4 is a freshwater intermittent stream that emanates from a 36-inch corrugated aluminum culvert. The culvert seems to come from the south, but its origin could not be determined. The culvert is at the base of an approximately 30-foot-high fill slope, and there were no inlets observed in the area. Tributary 4 flows west for 85 feet before converging with Baldy Creek. Tributary 4 is classified as R4 using Cowardin and classified as RFT using HGM. The OHW was delineated at the top of bank along the steep sides of the channel. Tributary 4 has an average width of 8 feet at OHW.

Tributary 4 is a simple channel that was likely excavated. Channel geometry is generally square, and the profile is linear. There was some woody debris in the channel, but bed variability was low. The stream is deeply incised within the channel. The banks are composed of sandy loam and are somewhat stabilized by the dense slough sedge along the channel. The substrate is composed of sandy silt. Riparian vegetation is dominated by Sitka spruce, red alder, Himalayan blackberry, sword fern, and slough sedge. Tributary 1 is well shaded by trees.

Ditch 1 (0.005 acres, 202 square feet, 47 linear feet within study area)
Ditch 1 flows south into the northern boundary of the northern study area and flows south for 47 feet before converging with Badly Creek. Ditch 1 has an average width of 3 feet at OHW. Hydrology is likely runoff from SW 29th Street.

Ditch 2 (0.0004 acres, 19 square feet, 15 linear feet within study area)
Ditch 2 emanates from a 6-inch polyvinyl chloride (PVC) pipe, flows southeast for 15 feet, and converges with Baldy Creek. Ditch 2 has an average width of 2 feet at OHW.

DEVIATION FROM SWI AND PRIOR DELINEATIONS

The Statewide Wetlands Inventory (SWI) (DSL, 2025) includes the National Wetlands Inventory (NWI), Local Wetlands Inventory (LWI), and National Hydrology Dataset (NHD).

The NWI mapping (Figure 3) somewhat corresponds with the results of the field investigation. The NWI maps a palustrine, forested, temporarily flooded (PFOA) and riverine, unknown perennial, unconsolidated bottom, permanently flooded (R5UBH) polygon in the general location of Baldy Creek, Wetland B, and Wetland D; however, Wetland B and Wetland D are much more extensive than the NWI mapping shows. Additionally, the NWI does not map Wetland A or any of the tributary streams.

The LWI (SRI/Shapiro, 1996) identifies SCC-14 in the northern and central study areas. The LWI is less extensive than Wetland B but generally is in the correct area. LWI Polygon SCC-12 is identified in the southern study area and is in a similar configuration as Wetland C but does not represent most of Wetland D (Figure 3).

MAPPING METHOD

A recent color aerial photograph (Nearmap, 2024) with the study area boundary was used as the basemap for the delineation maps. Wetland boundaries and sample plot locations were collected using a Trimble DA2 handheld GPS unit with real-time kinematic (RTK) accuracy of ±2.7 feet, based on real-time accuracy information at the time of recording. Tax lot boundaries were obtained from the Lincoln City GIS office, and accuracy is assumed to be within +/-1 meter. Mapping and cartography were completed in ArcGIS Pro. Soil mapping units are depicted in Figure 4 and an aerial photograph is included as Figure 5. Ground-level site photographs are included in Appendix B.

RESULTS AND CONCLUSIONS

Four wetlands, four tributaries, two ditches, and Baldy Creek were identified within the study area (Table 3).

Table 3. Delineation Summary

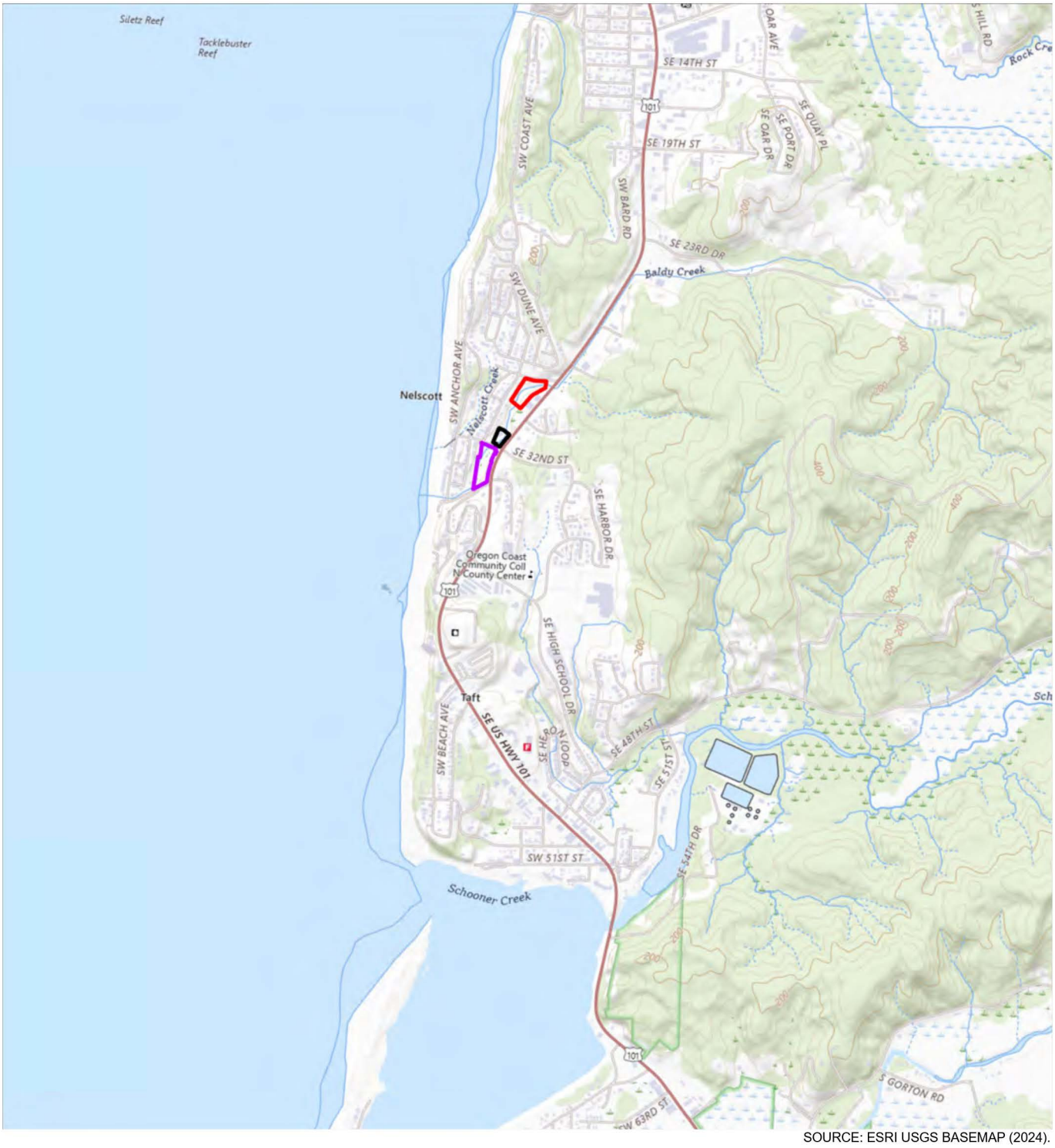
Field ID	Area (acres)	Cowardin Classification	HGM Classification
Wetland A	0.17	PFO	D/SV/RFT
Wetland B	0.65	PFO	SV/RFT
Wetland C	0.07	PFO	SV
Wetland D	0.93	PFO	SV/D
Baldy Creek	0.69	R2	RFT
Tributary 1	0.002	R4	RFT
Tributary 2	0.004	R4	RFT
Tributary 3	0.004	R4	RFT
Tributary 4	0.01	R4	RFT
Ditch 1	0.005	NA	NA
Ditch 2	0.0004	NA	NA

NA: not applicable

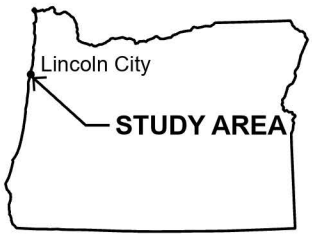
REQUIRED DISCLAIMER

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 of wetlands and other waters and used at your own risk unless it has been reviewed and approved in writing by the DSL in accordance with OARs 141-090-0005 through 141-090-0055.

Figures



SOURCE: ESRI USGS BASEMAP (2024).



Legend

- North Study Area, 2.12 ac.
- Central Study Area, 0.68 ac.
- South Study Area, 2.26 ac.

SCALE: 1" = 2,000' (8.5X11 SHEET)

0' 1,000' 2,000' 4,000'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

LOCATION MAP

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
1

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SOURCE: ORMAP (2024).

Legend

North Study Area, 2.12 ac.

SCALE: 1" = 140' (8.5X11 SHEET)

0' 70' 140' 281'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

TAX LOT MAP 07 11 22 DC

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE

2A

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SOURCE: ORMAP (2024).

Legend

- North Study Area, 2.12 ac.
- Central Study Area, 0.68 ac.
- South Study Area, 2.26 ac.

SCALE: 1" = 140' (8.5X11 SHEET)

0' 70' 140' 280'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

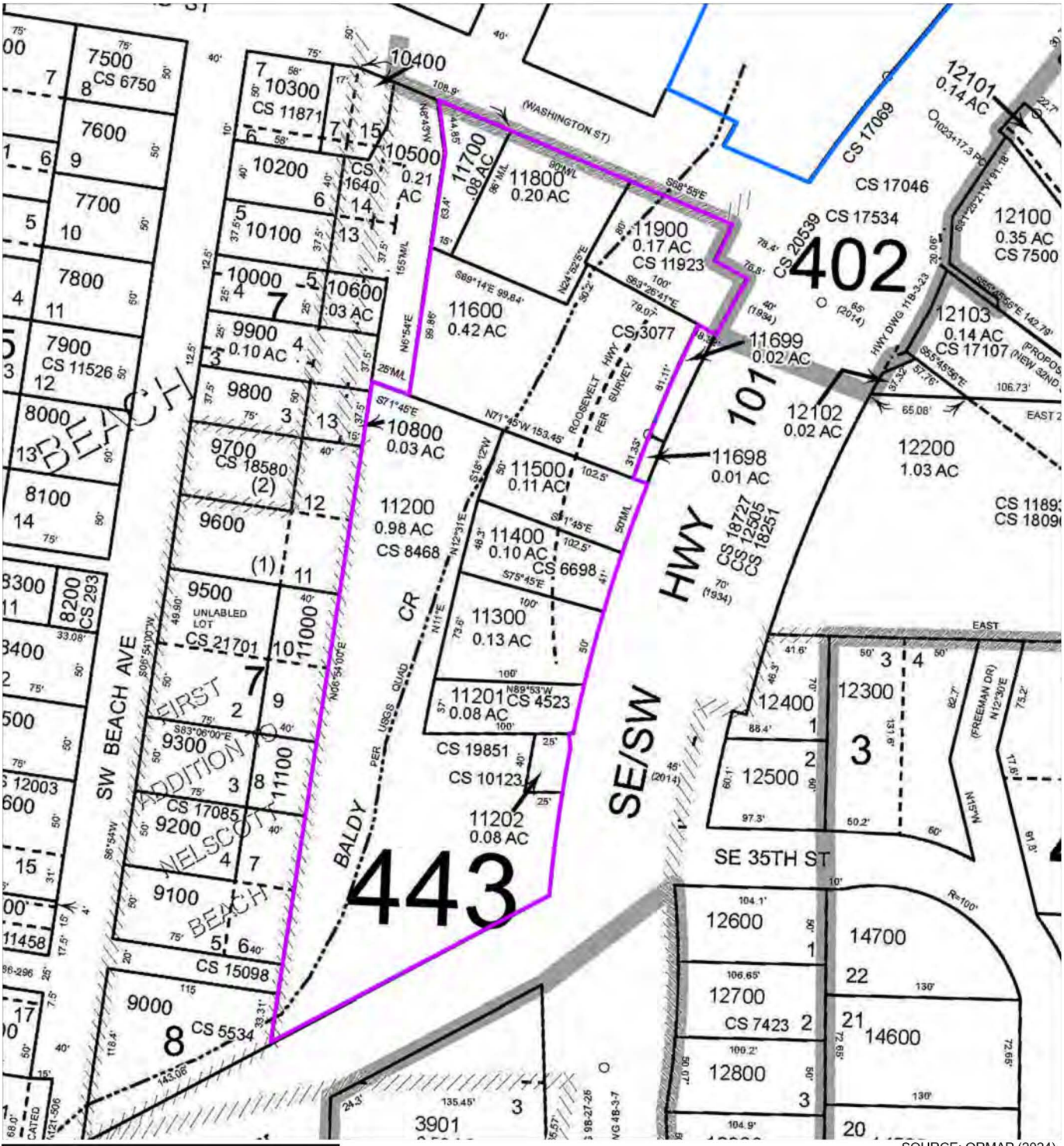
TAX LOT MAP 07 11 22 CD

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
2B

Filename: \\apexcos.local\PBS_L\Projects_DVP\C\CIT352\24011321\Mapping\APRX\BaldyCreek_WetlandDelineation\BaldyCreek_WetlandDelineation.aprx Plot Date/Time: 1/10/2025 11:36 AM



SOURCE: ORMAP (2024).

Legend

- Central Study Area, 0.68 ac.
- South Study Area, 2.26 ac.

SCALE: 1" = 100' (8.5X11 SHEET)

0' 50' 100' 199'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

TAX LOT MAP 07 11 27 BA

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
2C

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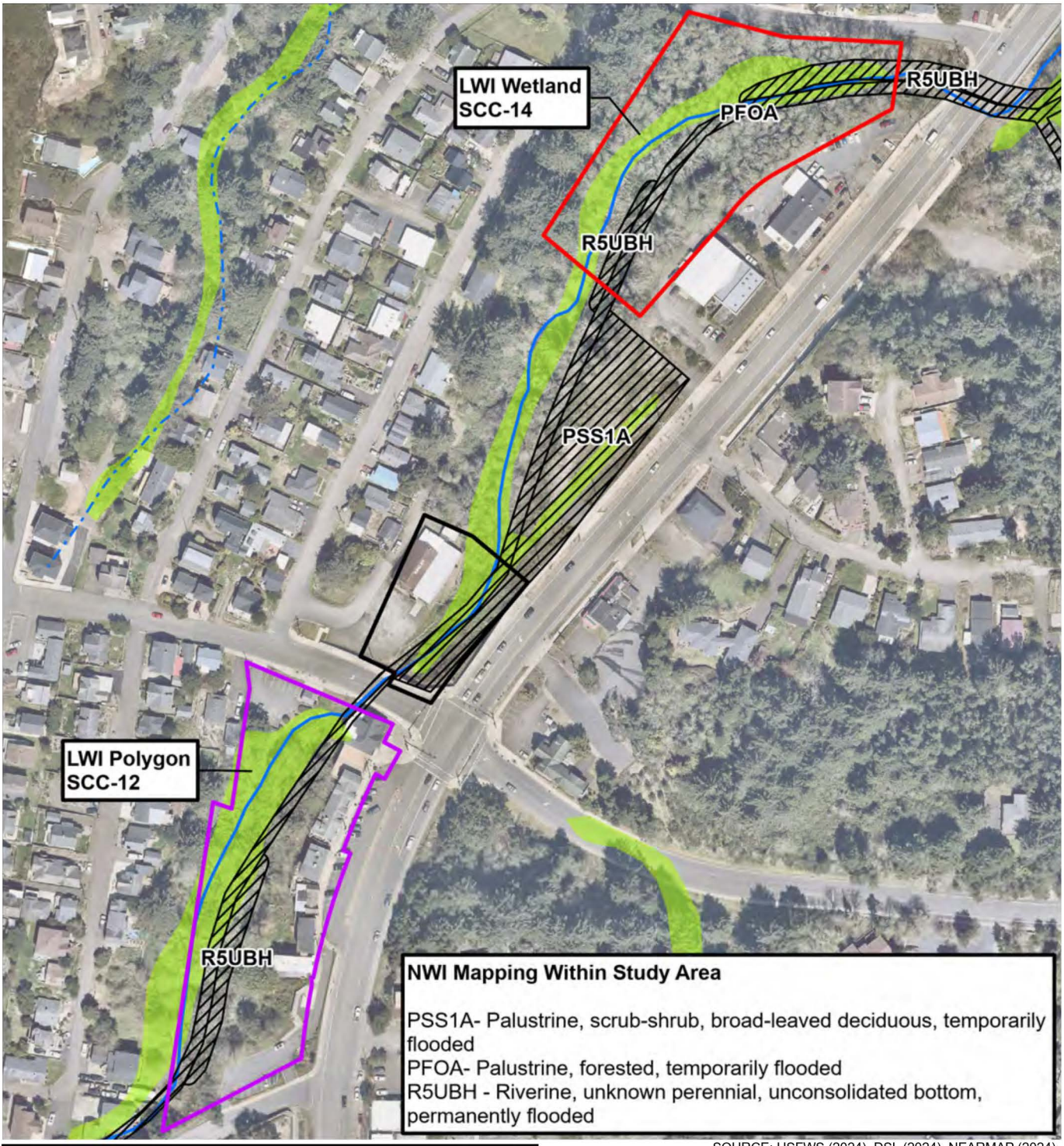


SOURCE: USFWS (2024), DSL (2024), NEARMAP (2024).

Legend

- North Study Area, 2.12 ac.
- Central Study Area, 0.68 ac.
- South Study Area, 2.26 ac.
- NWI Polygons
- LWI Polygons
- Perennial
- Intermittent

SCALE: 1" = 200' (8.5X11 SHEET)

0' 100' 200' 400'

PREPARED FOR: CITY OF LINCOLN CITY

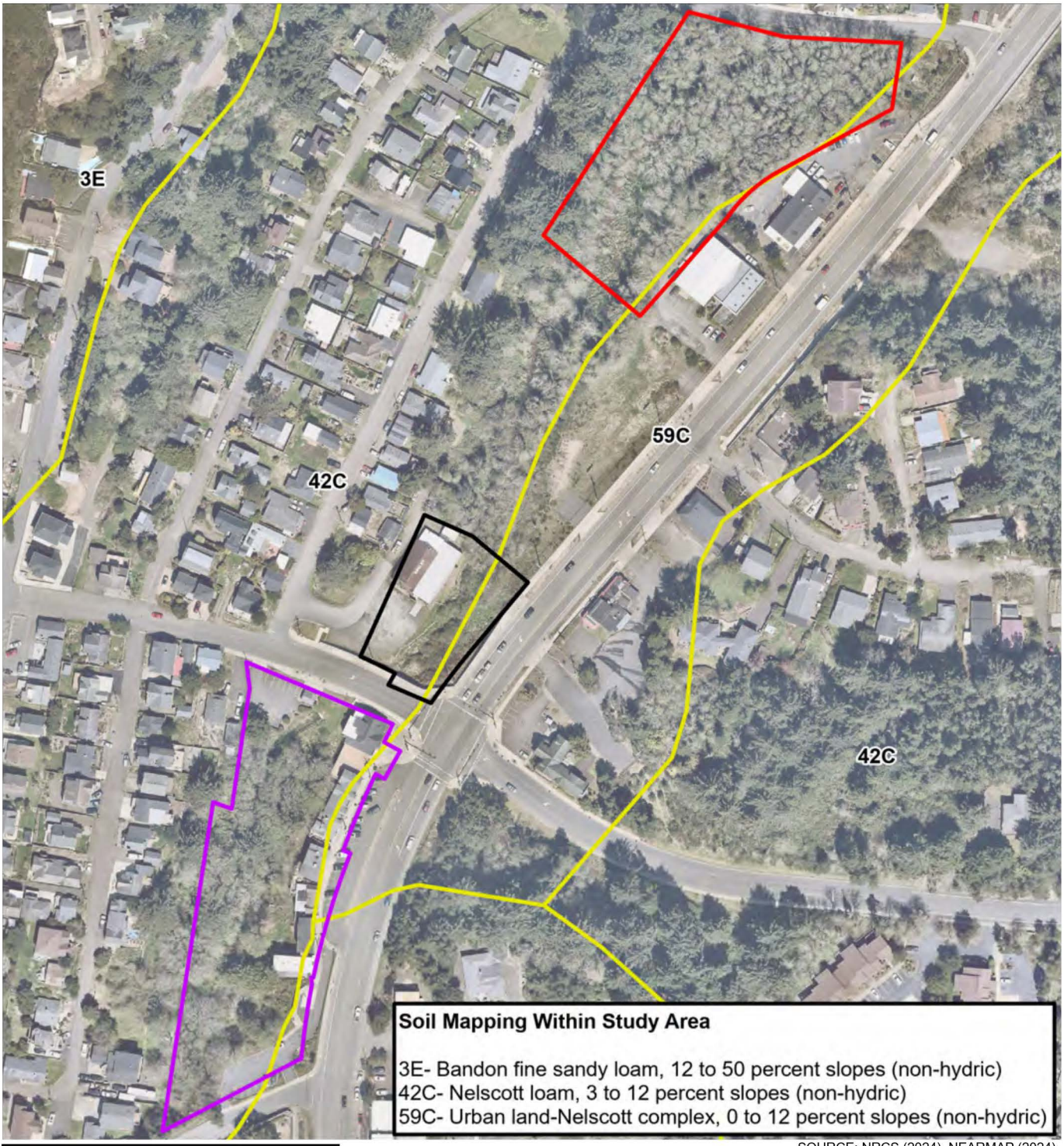
PBS AN APEX COMPANY

STATEWIDE WETLANDS INVENTORY MAP

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
3



Soil Mapping Within Study Area

3E- Bandon fine sandy loam, 12 to 50 percent slopes (non-hydric)
42C- Nelscott loam, 3 to 12 percent slopes (non-hydric)
59C- Urban land-Nelscott complex, 0 to 12 percent slopes (non-hydric)

SOURCE: NRCS (2024), NEARMAP (2024).

Legend

- North Study Area, 2.12 ac.
- Central Study Area, 0.68 ac.
- South Study Area, 2.26 ac.
- NRCS Polygons

SCALE: 1" = 200' (8.5X11 SHEET)

0' 100' 200' 400'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

COUNTY SOIL SURVEY MAP

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
4

Filename: \\apexcos.local\PBS_LI\Projects_DVP\C\CIT352\24011321\Mapping\APRX\BaldyCreek_WetlandDelineation\BaldyCreek_WetlandDelineation.aprx Plot Date/Time: 1/10/2025 11:35 AM

SOURCE: NEARMAP (2024).

Legend

- North Study Area, 2.12 ac.
- Central Study Area, 0.68 ac.
- South Study Area, 2.26 ac.

SCALE: 1" = 200' (8.5X11 SHEET)

0' 100' 200' 400'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

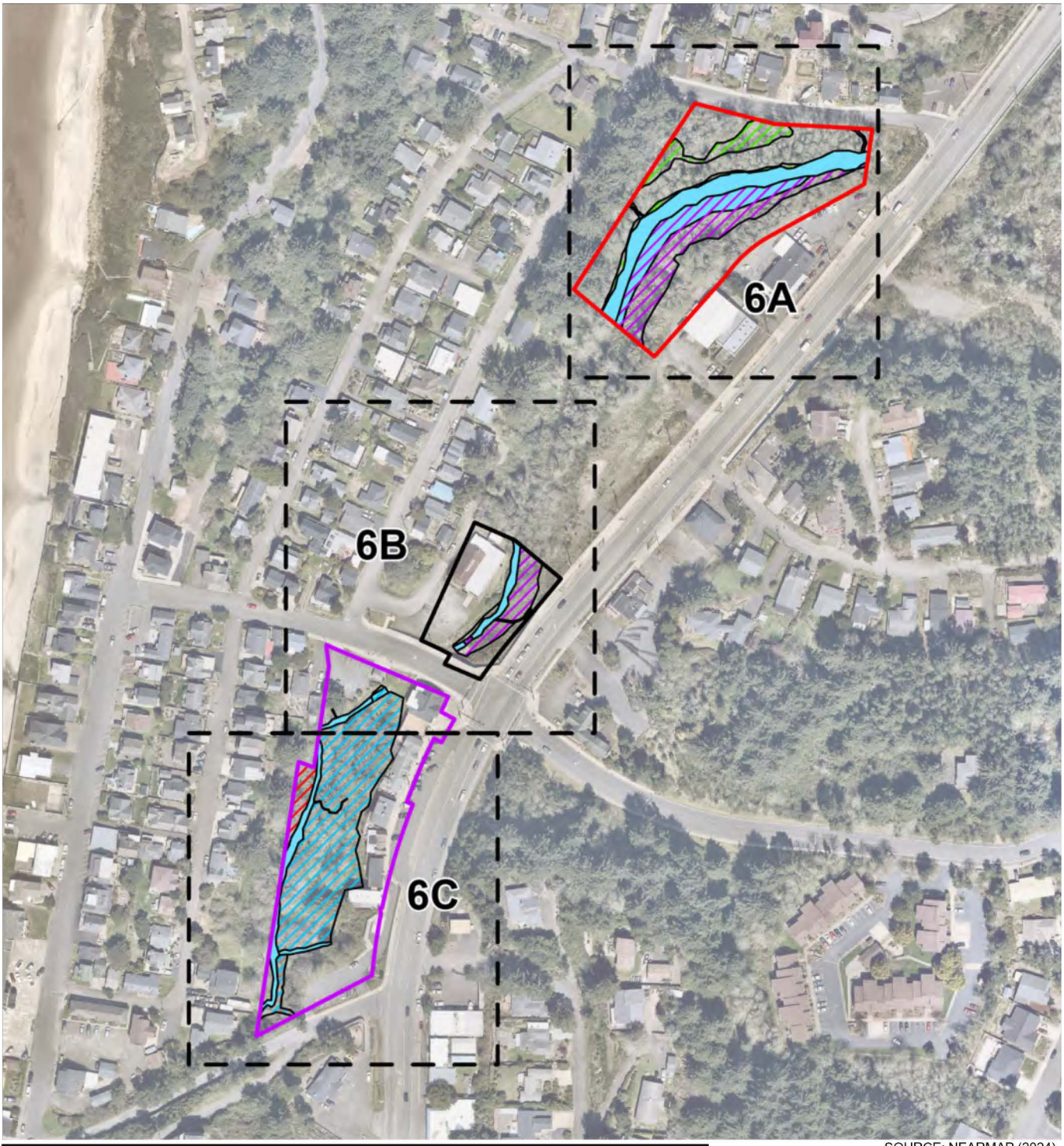
APRIL 25, 2024 AERIAL PHOTOGRAPH

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
5

Filename: \\apexcos.local\PBS_LI\Projects_DVP\C\CIT352\24011321\Mapping\APRX\BaldyCreek_WetlandDelineation\BaldyCreek_WetlandDelineation.aprx Plot Date/Time: 1/10/2025 11:36 AM



SOURCE: NEARMAP (2024).

Legend

- Layout Extents
- North Study Area, 2.12 ac.
- Central Study Area, 0.68 ac.
- South Study Area, 2.26 ac.
- Wetland A (PFO, VS/D/RFT), 0.17 ac.
- Wetland B (PFO, SV/RFT), 0.65 ac.
- Wetland C (PFO, SV), 0.07 ac.
- Wetland D (PFO, SV/D), 0.93 ac.
- Streams OHW, 0.71 ac. (Total)
- Ditches, 0.005 ac. (Total)

SCALE: 1" = 240' (8.5X11 SHEET)

0' 120' 240' 480'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

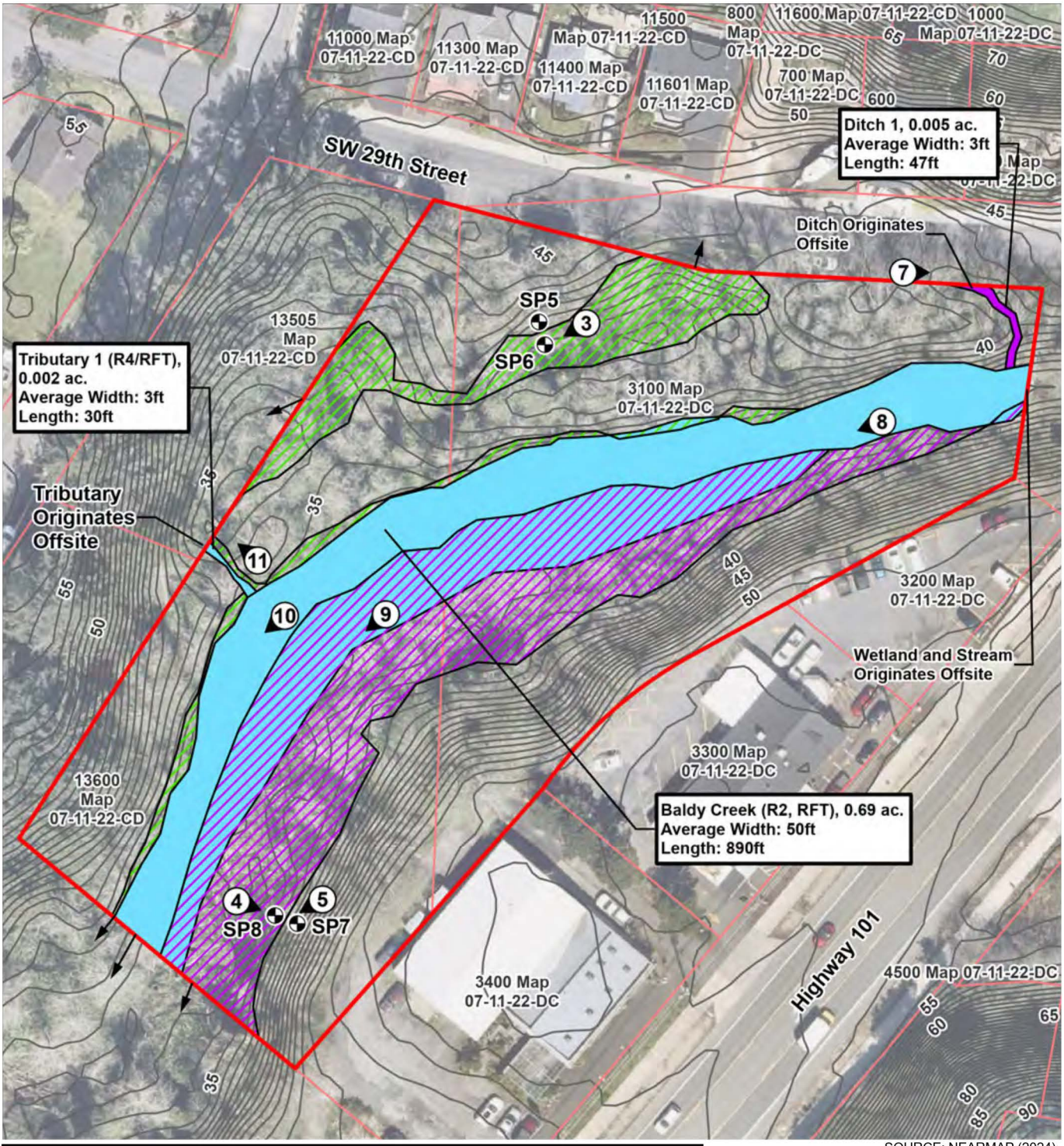
WETLAND DELINEATION OVERVIEW MAP

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
6

Filename: \\apexcos.local\PBS_L\Projects_DVP\C\CIT352\24011321\Mapping\APRX\BaldyCreek_WetlandDelineation\BaldyCreek_WetlandDelineation.aprx Plot Date/Time: 1/10/2025 11:37 AM



SOURCE: NEARMAP (2024).

Legend

- Plots
- Photo Points
- North Study Area, 2.12 ac.
- Wetland A (PFO, SV/D/RFT), 0.17 ac.
- Wetland B (PFO, SV/RFT), 0.65 ac.
- Ditches, 0.005 ac. (Total)
- Streams OHW, 0.71 ac. (Total)
- 1ft Contours
- Tax Lots

SCALE: 1" = 70' (8.5X11 SHEET)

0' 35' 70' 140'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

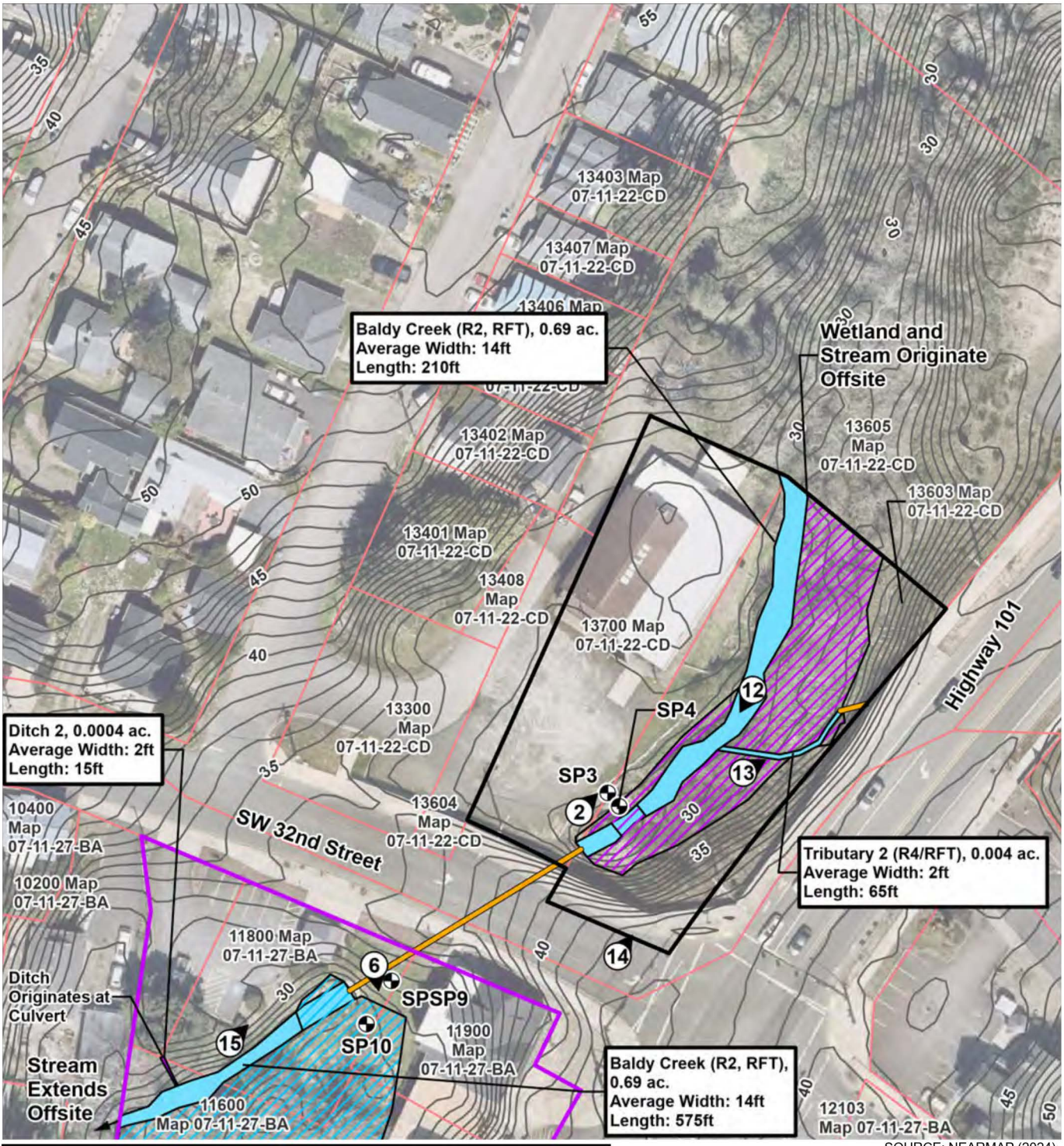
WETLAND DELINEATION MAP

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
6A

Filename: \\apexcos.local\PBS_L\Projects_DVP\C\CIT352\24011321\Mapping\APRX\BaldyCreek_WetlandDelineation\BaldyCreek_WetlandDelineation.aprx Plot Date/Time: 1/10/2025 11:35 AM



SOURCE: NEARMAP (2024).

Legend

- Plots
- Photo Points
- Central Study Area, 0.68 ac.
- South Study Area, 2.26 ac.
- Culverts
- Wetland B (PFO, SV/RFT), 0.65 ac.
- Wetland D (PFO, SV/D), 0.93 ac.
- Ditches, 0.005 ac. (Total)
- Streams OHW, 0.71 ac. (Total)
- 1ft Contours
- Tax Lots

SCALE: 1" = 70' (8.5X11 SHEET)

0' 35' 70' 140'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

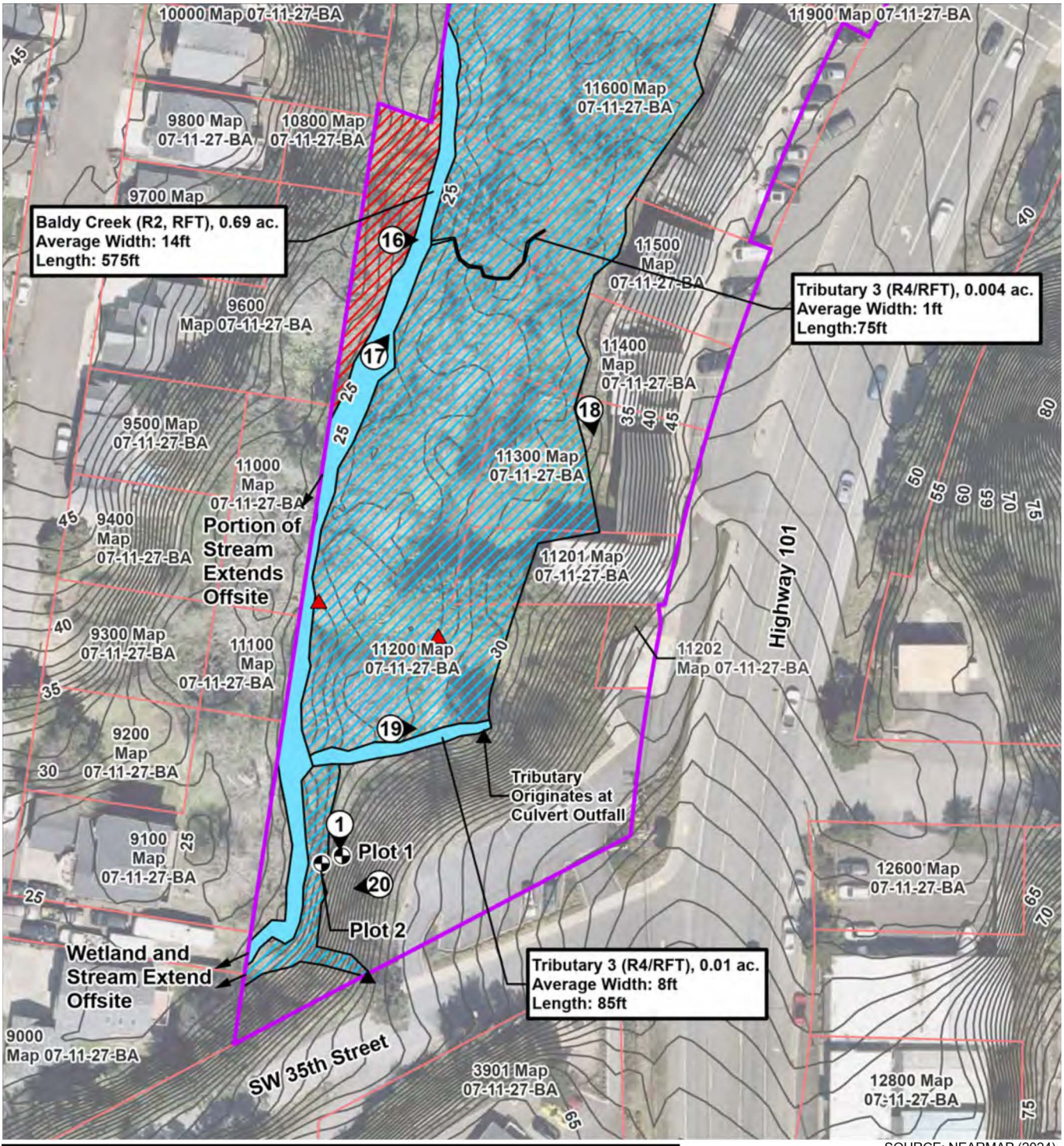
WETLAND DELINEATION MAP

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
6B

Filename: \\apexcos.local\PBS_LI\Projects_DVP\C\CIT352\24011321\Mapping\APRX\BaldyCreek_WetlandDelineation\BaldyCreek_WetlandDelineation.aprx Plot Date/Time: 1/10/2025 11:37 AM



SOURCE: NEARMAP (2024).

Legend

- Plots
- Photo Points
- South Study Area, 2.26 ac.
- Wetland C (PFO, SV), 0.07 ac.
- Wetland D (PFO, SV/D), 0.93 ac.
- Streams OHW, 0.71 ac. (Total)
- 1ft Contours
- Culvert Outfall
- Sanitary Sewer Outfall
- Tax Lots

SCALE: 1" = 70' (8.5X11 SHEET)

0' 35' 70' 140'

PREPARED FOR: CITY OF LINCOLN CITY

PBS AN APEX COMPANY

WETLAND DELINEATION MAP

BALDY CREEK WETLAND DELINEATION
LINCOLN CITY, LINCOLN COUNTY, OREGON

CIT352-0312012-24011321
JAN 2025

FIGURE
6C

Filename: \\apexcos.local\PBS_L\Projects_DVP\C\CIT352\24011321\Mapping\APRX\BaldyCreek_WetlandDelineation\BaldyCreek_WetlandDelineation.aprx Plot Date/Time: 1/10/2025 11:35 AM

Appendix A
Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek Wetland Delineation | City/County: Lincoln City / Lincoln County | Sampling Date: 12/3/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP1

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Convex | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.941955 | Long: -124.021972 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: R5UBH

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes ___	No **X**
Hydric soil present?	Yes ___	No **X**
Indicators of wetland hydrology present?	Yes ___	No **X**

Is the sampled area within a wetland? Yes ___ No **X**

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1. *Alnus rubra*	90	Y	FAC
2.			
3.			
4.			
	90 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1. *Sambucus racemosa*	15	Y	FACU
2. *Ilex aquifolium*	10	Y	FACU
3. *Rubus spectabilis*	10	Y	FAC
4.			
5.			
	35 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Polystichum munitum*	50	Y	FACU
2. *Athyrium cyclosorum*	5	N	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	55 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1. *Hedera helix*	60	Y	FACU
2.			
	60 = Total Cover		

% Bare Ground in Herb Stratum 45

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 6 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	105	x 3 =	315
FACU species	135	x 4 =	540
UPL species	0	x 5 =	0
Column totals	240 (A)		855 (B)

Prevalence Index = B/A = 3.56

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0

___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)

___ 5 - Wetland Non-Vascular Plants[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Yes ___ No **X**

Remarks:

SOIL

Sampling Point: SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	7.5YR 3/4	100					GrSaL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ___ **No** **X**

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

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)
- ___ 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 Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	___	No	X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes	___	No	X	Depth (inches): ___

Wetland Hydrology Present?

Yes ___ **No** **X**

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

Aerial photograph

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek | City/County: Lincoln City / Lincoln County | Sampling Date: 12/3/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP2

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Concave | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.941945 | Long: -124.022000 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: R5UBH

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes	X	No	
Hydric soil present?	Yes	X	No	
Indicators of wetland hydrology present?	Yes	X	No	

Is the sampled area within a wetland? Yes X No

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1. *Alnus rubra*	70	Y	FAC
2.			
3.			
4.			
	70 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Carex obnupta*	50	Y	OBL
2. *Ranunculus repens*	30	Y	FAC
3. *Polystichum munitum*	10	N	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	90 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1. *Hedera helix*	60	Y	FACU
2.			
	60 = Total Cover		

% Bare Ground in Herb Stratum 10

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 75% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	50	x 1 =	50
FACW species	0	x 2 =	0
FAC species	100	x 3 =	300
FACU species	70	x 4 =	280
UPL species	0	x 5 =	0
Column totals	220 (A)		630 (B)

Prevalence Index = B/A = 2.86

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0

___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)

___ 5 - Wetland Non-Vascular Plants[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Yes X No

Remarks:

SOIL

Sampling Point: SP2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	10YR 3/2	100					SiSaL	
5-18	7.5YR 3/2	95	7.5YR 4/6	5	C	M	SaL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- X High Water Table (A2)
- X 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 Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	X	No	___	Depth (inches): 12
Saturation Present? (includes capillary fringe)	Yes	X	No	___	Depth (inches): 9

Wetland Hydrology Present?

Yes X **No** ___

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

Aerial photograph

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek | City/County: Lincoln City / Lincoln County | Sampling Date: 12/3/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP3

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Convex | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.943517 | Long: -124.020978 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: PFOA

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil X, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes	**X**	No	
Hydric soil present?	Yes		No	**X**
Indicators of wetland hydrology present?	Yes		No	**X**

Is the sampled area within a wetland? Yes ___ No **X**

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1. *Rubus armeniacus*	25	Y	FAC
2.			
3.			
4.			
5.			
	25 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Iris pseudacorus*	60	Y	OBL
2. *Polystichum munitum*	10	N	FACU
3. *Equisetum arvense*	10	N	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	80 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0 = Total Cover		

% Bare Ground in Herb Stratum 20

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	60	x 1 =	60
FACW species	0	x 2 =	0
FAC species	35	x 3 =	105
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column totals	105 (A)		205 (B)

Prevalence Index = B/A = 1.95

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0

___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)

___ 5 - Wetland Non-Vascular Plants[1]

Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? **Yes** **X** **No** ___

Remarks:

SOIL

Sampling Point: SP3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/4	100					GrSL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

Rock refusal at 4" from fill

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)
- ___ 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 Leaves (B9) **(except MRLA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)
- X FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	___	No	X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes	___	No	X	Depth (inches): ___

Wetland Hydrology Present?

Yes ___ **No** X

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

Aerial photograph

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek | City/County: Lincoln City / Lincoln County | Sampling Date: 12/3/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP4

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Concave | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.943510 | Long: -124.020962 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: PFOA

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes	X	No	
Hydric soil present?	Yes	X	No	
Indicators of wetland hydrology present?	Yes	X	No	

Is the sampled area within a wetland? Yes X No

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1. *Lonicera involucrata*	15	Y	FAC
2.			
3.			
4.			
5.			
	15 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Iris pseudacorus*	90	Y	OBL
2. *Heracleum maximum*	10	N	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0 = Total Cover		

% Bare Ground in Herb Stratum 0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	90	x 1 =	90
FACW species	0	x 2 =	0
FAC species	25	x 3 =	75
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	115 (A)		165 (B)

Prevalence Index = B/A = 1.43

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0
- ___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)
- ___ 5 - Wetland Non-Vascular Plants[1]
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Yes X No

Remarks:

SOIL

Sampling Point: SP4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2	100					SiL	
4-18	7.5YR 4/1	95	7.5YR 3/4	5	C	M	SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- X Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- X Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X 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 Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)
- X FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	X	No	___	Depth (inches): 16
Saturation Present? (includes capillary fringe)	Yes	X	No	___	Depth (inches): 12

Wetland Hydrology Present?

Yes X **No** ___

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

Aerial photograph

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek | City/County: Lincoln City / Lincoln County | Sampling Date: 12/3/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP5

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Convex | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.945739 | Long: -124.019476 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: PFOA

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes ___	No **X**	**Is the sampled area within a wetland?** Yes ___ No **X**
Hydric soil present?	Yes ___	No **X**	
Indicators of wetland hydrology present?	Yes ___	No **X**	

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1. *Alnus rubra*	35	Y	FAC
2.			
3.			
4.			
	35 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1. *Sambucus racemosa*	25	Y	FACU
2.			
3.			
4.			
5.			
	25 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Polystichum munitum*	20	Y	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	20 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1. *Hedera helix*	80	Y	FACU
2.			
	80 = Total Cover		

% Bare Ground in Herb Stratum 80

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across all Strata: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 25% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	35	x 3 =	105
FACU species	125	x 4 =	500
UPL species	0	x 5 =	0
Column totals	160 (A)		605 (B)

Prevalence Index = B/A = 3.78

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0

___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)

___ 5 - Wetland Non-Vascular Plants[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Yes ___ No **X**

Remarks:

SOIL

Sampling Point: SP5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-13	10YR 3/3	100					SL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

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)
- ___ 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 Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	___	No	X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes	___	No	X	Depth (inches): ___

Wetland Hydrology Present?

Yes ___ **No** X

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

Aerial photograph

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek | City/County: Lincoln City / Lincoln County | Sampling Date: 12/3/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP6

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Concave | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.945724 | Long: -124.019470 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: PFOA

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes	X	No	
Hydric soil present?	Yes	X	No	
Indicators of wetland hydrology present?	Yes	X	No	

Is the sampled area within a wetland? Yes X No

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1. *Alnus rubra*	60	Y	FAC
2.			
3.			
4.			
	60 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1. *Sambucus racemosa*	15	Y	FACU
2.			
3.			
4.			
5.			
	15 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Lysichiton americanus*	50	Y	OBL
2. *Carex obnupta*	20	Y	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	70 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1. *Hedera helix*	50	Y	FACU
2.			
	50 = Total Cover		

% Bare Ground in Herb Stratum 30

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 60% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	70	x 1 =	70
FACW species	0	x 2 =	0
FAC species	60	x 3 =	180
FACU species	65	x 4 =	260
UPL species	0	x 5 =	0
Column totals	195 (A)		510 (B)

Prevalence Index = B/A = 2.62

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0
- ___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)
- ___ 5 - Wetland Non-Vascular Plants[1]
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Yes X No

Remarks:

SOIL

Sampling Point: SP6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2	100					SiSaL	
4-18	10YR 3/2	95	7.5YR 4/6	5	C	M	SiSaL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X 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 Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	X	No	___	Depth (inches): 16
Saturation Present? (includes capillary fringe)	Yes	X	No	___	Depth (inches): 12

Wetland Hydrology Present?

Yes X **No** ___

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

Aerial photograph

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek | City/County: Lincoln City / Lincoln County | Sampling Date: 12/3/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP7

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Convex | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.944971 | Long: -124.019889 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: PFOA

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil X, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes ___	No **X**	**Is the sampled area within a wetland?** Yes ___ No **X**
Hydric soil present?	Yes ___	No **X**	
Indicators of wetland hydrology present?	Yes ___	No **X**	

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1. *Alnus rubra*	50	Y	FAC
2.			
3.			
4.			
	50 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1. *Rubus armeniacus*	30	Y	FAC
2. *Sambucus racemosa*	15	Y	FACU
3. *Rubus spectabilis*	10	N	FAC
4.			
5.			
	55 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Lamium galeobdolon*	75	Y	UPL
2. *Polystichum munitum*	20	Y	FACU
3. *Geranium californicum*	5	N	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0 = Total Cover		

% Bare Ground in Herb Stratum 0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across all Strata: 5 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 40% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	95	x 3 =	285
FACU species	35	x 4 =	140
UPL species	75	x 5 =	375
Column totals	205 (A)		800 (B)

Prevalence Index = B/A = 3.90

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0

___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)

___ 5 - Wetland Non-Vascular Plants[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Yes ___ No **X**

Remarks:

SOIL

Sampling Point: SP7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-7	7.5YR 2.5/2	100					GrSL	Large angular rock, fill

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

Rock refusal at 7 inches.

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)
- ___ 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 Leaves (B9) **(except MRLA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	___	No	X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes	___	No	X	Depth (inches): ___

Wetland Hydrology Present?

Yes ___ **No** X

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

Aerial photograph

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek | City/County: Lincoln City / Lincoln County | Sampling Date: 12/3/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP8

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Concave | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.944970 | Long: -124.019911 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: PFOA

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil ___, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes	X	No	
Hydric soil present?	Yes	X	No	
Indicators of wetland hydrology present?	Yes	X	No	

Is the sampled area within a wetland? Yes X No ___

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Carex obnupta*	65	Y	OBL
2. *Lysichiton americanus*	15	N	OBL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	80 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0 = Total Cover		

% Bare Ground in Herb Stratum 20

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across all Strata: 1 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	80	x 1 =	80
FACW species	0	x 2 =	0
FAC species	0	x 3 =	0
FACU species	0	x 4 =	0
UPL species	0	x 5 =	0
Column totals	80 (A)		80 (B)

Prevalence Index = B/A = 1.00

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0

___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)

___ 5 - Wetland Non-Vascular Plants[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Yes X No ___

Remarks:

SOIL

Sampling Point: SP8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-7	10YR 3/2	90	7.5YR 4/4	10	C	PL/M	SiSL	
7-15	10YR 3/1	90	7.5YR 4/4	10	C	PL/M	SiSL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

HYDROLOGY

Wetland Hydrology Indicators

Primary Indicators (minimum of one is required; check all that apply

- X Surface Water (A1)
- X High Water Table (A2)
- X 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 Leaves (B9) **(except MLRA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- X Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)

Field Observations:

Surface Water Present?	Yes	X	No	___	Depth (inches):	0.5
Water Table Present?	Yes	X	No	___	Depth (inches):	3
Saturation Present? (includes capillary fringe)	Yes	X	No	___	Depth (inches):	0

Wetland Hydrology Present?

Yes X **No** ___

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

Aerial photograph

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek | City/County: Lincoln City / Lincoln County | Sampling Date: 12/4/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP9

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Convex | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.943273 | Long: -124.021361 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: PFOA

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil X, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes	**X**	No	
Hydric soil present?	Yes		No	**X**
Indicators of wetland hydrology present?	Yes		No	**X**

Is the sampled area within a wetland? Yes ___ No **X**

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1.			
2.			
3.			
4.			
5.			
	0 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Schedonorus arundinaceus*	30	Y	FAC
2. *Agrostis capillaris*	30	Y	FAC
3. *Poa pratensis*	30	Y	FAC
4. *Hypochaeris radicata*	10	N	FACU
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	100 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0 = Total Cover		

% Bare Ground in Herb Stratum 0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	90	x 3 =	270
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column totals	100 (A)		310 (B)

Prevalence Index = B/A = 3.10

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0

___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)

___ 5 - Wetland Non-Vascular Plants[1]

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? **Yes** **X** **No** ___

Remarks:

SOIL

Sampling Point: SP9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2	100					L	Gravel fill refusal

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** ___ **No** **X**

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

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)
- ___ 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 Leaves (B9) **(except MRLA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	___	No	X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes	___	No	X	Depth (inches): ___

Wetland Hydrology Present?

Yes ___ **No** **X**

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

Aerial photograph

Remarks:

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys and Coast Region

Project/Site: Baldy Creek | City/County: Lincoln City / Lincoln County | Sampling Date: 12/4/2024

Applicant/Owner: City of Lincoln City | State: Oregon | Sampling Point: SP10

Investigator(s): T. Dee, H. Gilliland | Section, Township, Range: Sec. 27, T. 03N, R. 10W

Landform (hillslope, terrace, etc.): Marine terrace | Local relief (concave, convex, none): Concave | Slope (%): 5

Subregion (LRR): LRR A - Northwest Forests and Coast | Lat: 44.943216 | Long: -124.021406 | Datum: WGS84

Soil Map Unit Name: Nelscott loam, 3 to 12 percent slopes | NWI Classification: PFOA

Are climatic/hydrologic conditions of the site typical for this time of the year? Yes X No ___ (If no, explain in remarks)

Are vegetation ___, Soil X, or Hydrology ___ significantly disturbed? Are "Normal Circumstances" present? (If needed, explain any answers in remarks) Yes X No ___

Are vegetation ___, Soil ___, or Hydrology ___ naturally problematic?

SUMMARY OF FINDINGS - Attach site map showing sampling point location, transects, important features, etc.

Hydrophytic vegetation present?	Yes	X	No	
Hydric soil present?	Yes	X	No	
Indicators of wetland hydrology present?	Yes	X	No	

Is the sampled area within a wetland? Yes X No ___

Remarks:

VEGETATION -- Use scientific names of plants.

Tree Stratum (Plot size: 30' r)	Absolute % Cover	Dominant Species	Indicator Status
1. *Alnus rubra*	10	Y	FAC
2.			
3.			
4.			
	10 = Total Cover		
Sapling/Shrub Stratum (Plot size: 30' r)			
1. *Salix sp.*	15	Y	(FACW)
2.			
3.			
4.			
5.			
	15 = Total Cover		
Herb Stratum (Plot size: 5' r)			
1. *Phalaris arundinacea*	60	Y	FACW
2. *Agrostis stolonifera*	20	N	FAC
3. *Geranium californicum*	20	N	FAC
4. *Hypericum perforatum*	15	N	FACU
5.			
6.			
7.			
8.			
9.			
10.			
11.			
	115 = Total Cover		
Woody Vine Stratum (Plot size: 30' r)			
1.			
2.			
	0 = Total Cover		

% Bare Ground in Herb Stratum 0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	60	x 2 =	120
FAC species	50	x 3 =	150
FACU species	15	x 4 =	60
UPL species	0	x 5 =	0
Column totals	125 (A)		330 (B)

Prevalence Index = B/A = 2.64

Hydrophytic Vegetation Indicators:

- ___ 1 - Rapid Test for Hydrophytic Vegetation
- X 2 - Dominance Test is >50%
- X 3 - Prevalence Index is ≤3.0
- ___ 4 - Morphological Adaptations* (Provide supporting data in Remarks or on a separate sheet)
- ___ 5 - Wetland Non-Vascular Plants[1]
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present? Yes X No ___

Remarks: Indicator status in parentheses is estimated.

SOIL

Sampling Point: SP10

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1	95	5YR 4/6	5	C	M	SiL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1) **(Except MRLA 1)**
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- X Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10)
- ___ Red Parent Material (TF2)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Sa = sand; Si = silt; C = Clay; L= loam; Gr = gravel, Og= organic

Rock refusal at 6 inches

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)
- ___ 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 Leaves (B9) **(except MRLA 1, 2, 4A, and 4B)**
- ___ Salt Crust (B11)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Stunted or Stressed Plants (D1) (**LRR A**)
- ___ Other (Explain in Remarks)

Secondary 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)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X FAC-Neutral Test (D5)
- ___ Raised Ant Mounds (D6) (**LRR A**)
- ___ Frost Heave Hummocks (D7)

Field Observations:

Surface Water Present?	Yes	___	No	X	Depth (inches): ___
Water Table Present?	Yes	___	No	X	Depth (inches): ___
Saturation Present? (includes capillary fringe)	Yes	___	No	X	Depth (inches): ___

Wetland Hydrology Present?

Yes X **No** ___

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

Aerial photograph

Remarks:

Appendix B
Ground-Level Color Photographs

Photo 1. SP1 (left, upland) and SP2 (right, wetland), facing south. Photo taken December 3, 2024.

Photo 2. SP3 (left, upland) and SP4 (right, wetland), facing northeast. Photo taken December 3, 2024.

Photo 3. SP5 (right, upland) and SP6 (left, wetland), facing west. Photo taken December 4, 2024.

Photo 4. SP7 (upland), facing southeast. Photo taken December 4, 2024.

Photo 5. SP8 (wetland), facing southwest. Photo taken December 3, 2024.

Photo 6. SP9 (left, upland) and SP10 (right, wetland), facing southwest. Photo taken December 3, 2024.

Photo 7. Ditch 1 just outside the northern study area, facing east. Photo taken December 4, 2024.

Photo 8. Baldy Creek, Wetland A, and Wetland B, facing southwest. Photo taken December 4, 2024.

Photo 9. Interior of Wetland B, facing southwest. Photo taken December 3, 2024.

Photo 10. Baldy Creek, Wetland A, and Wetland B, facing southwest. Photo taken December 3, 2024.

Photo 11. Tributary 1 channel, facing northwest. Photo taken December 3, 2024.

Photo 12. Baldy Creek, facing southwest. Photo taken December 3, 2024.

Photo 13. Tributary 2 channel, facing northeast. Photo taken December 3, 2024.

Photo 14. Overview of Wetland B and Baldy Creek, facing northeast. Photo taken December 3, 2024.

Photo 15. Baldy Creek and culvert, facing northeast. Photo taken December 3, 2024.

Photo 16. Confluence of Tributary 3 with Baldy Creek, facing east. Photo taken December 3, 2024.

Photo 17. Baldy Creek, facing northeast. Photo taken December 3, 2024.

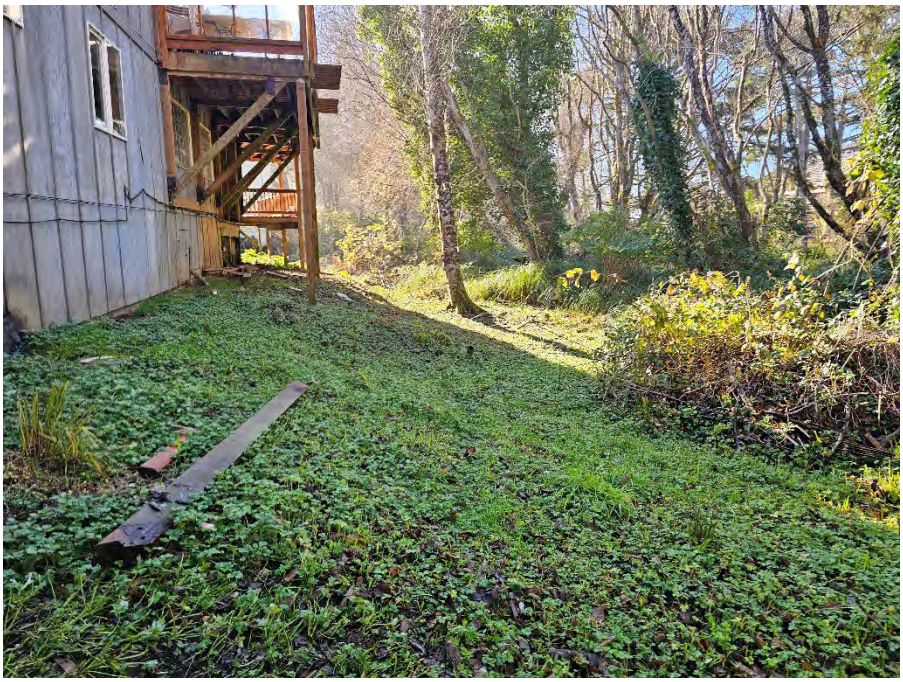


Photo 18. Wetland D boundary, facing southeast. Photo taken December 3, 2024.

Photo 19. Tributary 4, facing east. Photo taken December 3, 2024.

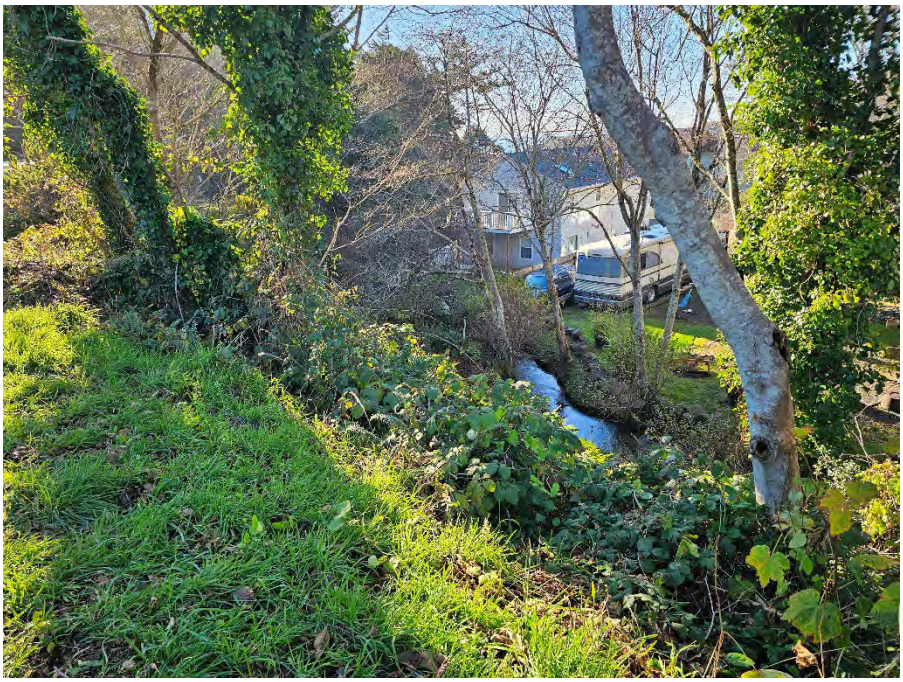
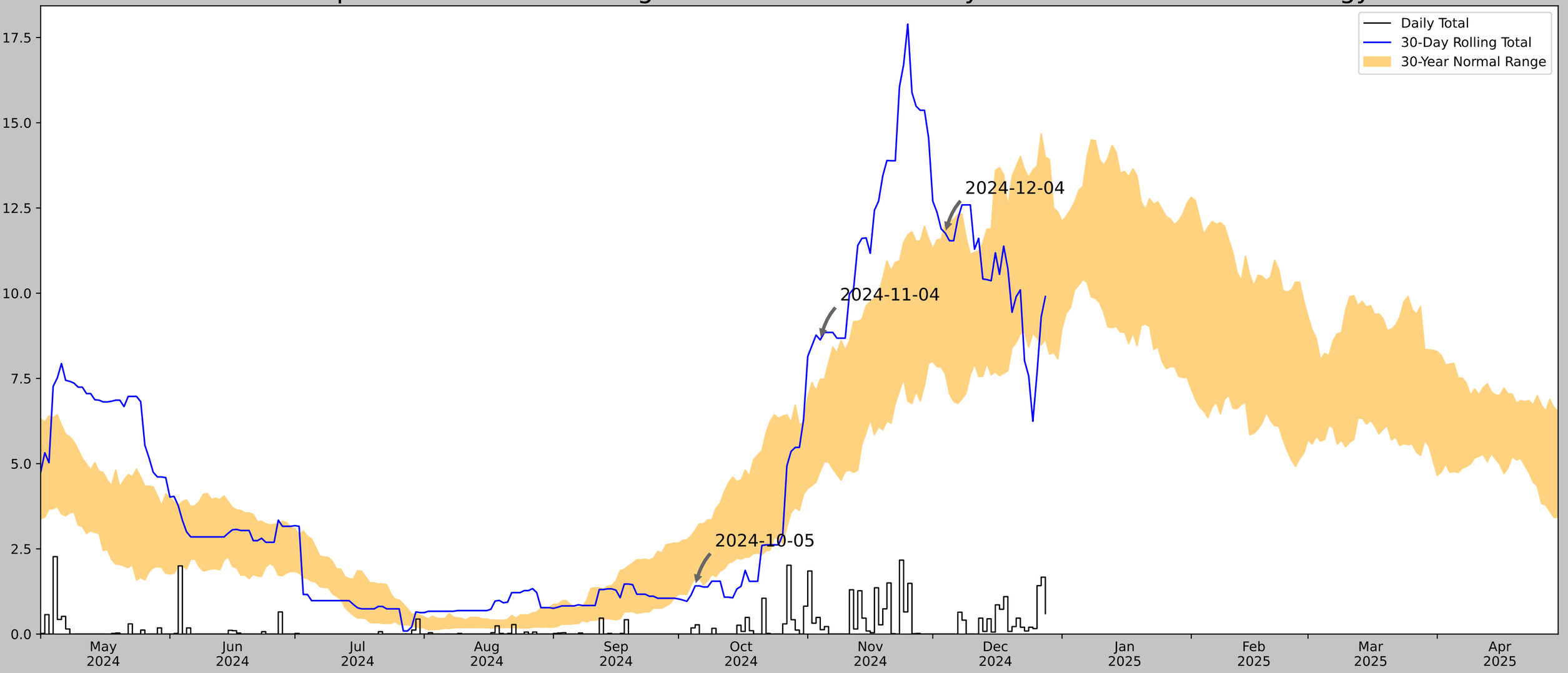


Photo 20. Overview of steep slope looking down to Baldy Creek. Photo taken December 3, 2024.

Appendix C
Additional Tables and Information

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	44.944596, -124.020466
Observation Date	2024-12-04
Elevation (ft)	30.48
Drought Index (PDSI)	Incipient wetness (2024-11)
WebWIMP H_2O Balance	Wet Season

30 Days Ending	30^{th} %ile (in)	70^{th} %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2024-12-04	7.632284	12.076772	11.759843	Normal	2	3	6
2024-11-04	4.784646	7.477953	8.629922	Wet	3	2	6
2024-10-05	1.632284	3.047638	1.413386	Dry	1	1	1
Result							Normal Conditions - 13

US Army Corps of Engineers

ERDC

Figures and tables made by the Antecedent Precipitation Tool Version 2.0

Developed by: U.S. Army Corps of Engineers and U.S. Army Engineer Research and Development Center

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
NEWPORT 5.1 N	44.6898, -124.0655	115.157	17.743	84.677	9.487	5935	88
NEWPORT 4.4 N	44.6798, -124.0627	146.982	0.704	31.825	0.339	1	2
NEWPORT 3N	44.6839, -124.0556	220.144	0.635	104.987	0.352	194	0
NEWPORT 4.2 N	44.6773, -124.0592	181.102	0.917	65.945	0.473	6	0
NEWPORT	44.6431, -124.0556	122.047	3.263	6.89	1.491	4899	0
NEWPORT 1 SE	44.6247, -124.0469	7.874	4.59	107.283	2.558	2	0
TOLEDO 1 SE	44.6122, -123.9197	162.073	8.95	46.916	4.447	1	0
OTIS 2 NE	45.0333, -123.9239	149.934	24.726	34.777	11.987	305	0
CLOVERDALE	45.205, -123.8925	12.139	36.588	103.018	20.234	10	0

WETS Table

WETS Station: OTIS 2 NE, OR								
Requested years: 1991 - 2020								
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	48.5	37.7	43.1	14.58	11.51	16.77	18	0.1
Feb	51.5	37.8	44.7	10.53	7.24	12.54	15	0.0
Mar	55.1	38.8	47.0	10.79	7.76	12.73	17	0.0
Apr	58.6	40.8	49.7	8.17	6.14	9.54	15	0.0
May	63.2	44.9	54.1	4.69	3.07	5.65	10	0.0
Jun	66.4	48.5	57.5	3.50	2.34	4.17	8	0.0
Jul	71.0	51.1	61.1	0.90	0.39	1.04	3	0.0
Aug	72.3	51.6	62.0	1.40	0.59	1.73	3	0.0
Sep	70.0	49.2	59.6	3.38	1.37	4.01	5	0.0
Oct	61.3	45.1	53.2	8.47	5.79	10.10	13	0.0
Nov	52.7	40.7	46.7	14.13	10.41	16.58	17	0.0
Dec	47.7	37.1	42.4	15.85	12.30	18.33	18	0.0
Annual:					86.42	102.62		
Average	59.9	43.6	51.7	-	-	-	-	-
Total	-	-	-	96.39			142	0.1

GROWING SEASON DATES			
Years with missing data:	24 deg = 1	28 deg = 1	32 deg = 1
Years with no occurrence:	24 deg = 20	28 deg = 7	32 deg = 0
Data years used:	24 deg = 29	28 deg = 29	32 deg = 29
Probability	24 F or higher	28 F or higher	32 F or higher
50 percent *	No occurrence	2/1 to 12/23: 325 days	4/6 to 11/10: 218 days
70 percent *	No occurrence	1/11 to 1/14: 368 days	3/28 to 11/19: 236 days
* Percent chance of the growing season occurring between the Beginning and Ending dates.			

STATS TABLE - total precipitation (inches)													
Yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annl
1948							M1.47	M1.70	4.97	5.57	12.97	20.11	46.79
1949	3.72	25.98	8.52	2.90	6.00	M2.40	1.43	1.25	2.80	7.92	12.93	M15.96	91.81
1950	19.18	17.19	17.28	7.26	3.22	2.95	2.15	2.06	2.99	15.19	16.05	15.95	121.47
1951	19.17	12.26	10.27	3.12	4.40	0.64	1.11	0.90	6.14	13.64	10.81	14.93	97.39
1952	15.67	11.61	14.49	3.47	1.92	2.14	0.09	2.67	1.09	1.61	3.85	15.21	73.82
1953	32.86	10.65	12.42	6.29	5.62	5.20	0.78	3.21	3.29	7.20	17.95	20.45	125.92
1954	21.63	12.36	8.18	7.33	3.33	6.00	1.82	M2.89	2.89	7.72	10.28	15.84	100.27
1955	9.46	9.00	11.26	12.11	2.75	2.58	3.00	0.10	5.12	16.48	M14.82	18.66	105.34

1956	22.53	12.49	18.02	2.26	2.47	3.92	0.52	1.77	2.65	12.06	3.66	12.80	95.15
1957	8.00	10.74	14.06	6.12	4.62	3.38	1.87	1.34	1.11	8.12	8.45	21.44	89.25
1958	15.19	14.24	8.04	12.53	1.48	1.94	0.08	0.42	4.43	5.74	17.00	15.21	96.30
1959	19.85	10.79	10.51	5.94	5.99	6.07	2.65	1.38	10.80	10.69	9.94	8.22	102.83
1960	11.74	13.20	10.39	7.88	9.70	2.05	0.05	3.25	1.26	9.06	M20.10	6.99	95.67
1961	12.13	22.47	16.50	6.61	6.50	1.18	0.53	0.88	2.46	9.24	10.26	13.37	102.13
1962	7.59	7.18	10.69	8.13	4.96	2.07	0.79	4.70	4.01	9.21	23.12	7.75	90.20
1963	6.04	11.27	9.38	9.44	4.19	3.90	2.45	2.74	3.17	11.40	16.29	10.94	91.21
1964	24.60	4.52	10.68	4.95	3.22	4.46	2.64	3.16	3.21	3.03	15.69	21.50	101.66
1965	26.21	7.38	2.46	6.36	3.21	0.98	0.53	0.78	0.94	5.02	16.20	17.49	87.56
1966	13.41	7.84	15.01	4.35	1.89	3.42	1.23	0.97	3.54	8.11	15.17	20.32	95.26
1967	20.18	9.70	12.90	8.16	1.93	1.21	0.07	0.09	2.28	13.00	8.50	13.32	91.34
1968	14.29	15.22	13.56	5.67	4.88	8.29	0.66	8.00	3.22	12.59	18.14	23.05	127.57
1969	19.21	9.12	5.47	6.90	5.01	9.29	1.07	0.61	5.72	9.11	10.48	15.46	97.45
1970	23.00	9.20	6.64	9.38	3.69	1.32	0.81	0.12	5.68	7.25	12.38	21.62	101.09
1971	25.33	10.31	14.36	8.13	3.51	5.22	1.90	1.47	10.38	9.18	14.51	25.99	130.29
1972	19.57	12.56	16.88	11.01	1.97	2.64	1.03	0.84	5.49	1.99	10.08	21.60	105.66
1973	12.10	2.89	11.86	3.47	4.66	5.85	0.11	1.24	6.54	9.83	27.02	24.48	110.05
1974	19.08	15.49	16.97	7.80	5.95	3.16	5.34	0.57	0.91	2.51	15.56	21.88	115.22
1975	20.81	12.42	11.49	6.29	4.35	2.71	0.98	4.09	0.06	15.37	16.79	22.94	118.30
1976	16.59	13.93	11.15	6.13	3.11	1.81	3.11	2.33	1.54	3.98	3.25	4.28	71.21
1977	2.48	8.95	13.75	2.19	8.22	1.85	0.73	4.10	8.22	5.17	16.98	20.27	92.91
1978	12.06	7.40	3.87	10.72	7.83	4.85	1.46	5.44	6.69	1.84	11.53	8.18	81.87
1979	6.57	16.74	9.06	6.94	4.56	2.78	1.61	0.97	4.49	13.47	9.33	16.25	92.77
1980	12.00	10.30	9.92	8.38	3.50	2.38	0.71	1.37	4.23	2.68	12.30	18.76	86.53
1981	4.30	9.90	9.30	7.61	5.40	5.94	0.54	0.64	4.75	11.76	11.74	19.49	91.37
1982	18.57	17.72	M11.17	9.17	1.62	2.11	1.60	1.73	7.11	M8.75	11.39	20.50	111.44
1983	23.45	17.05	15.22	4.40	6.30	6.56	5.78	1.57	1.03	M4.41	21.26	12.82	119.85
1984	10.07	13.18	9.83	8.75	9.20	7.93	1.43	0.32	4.18	12.83	19.14	10.29	107.15
1985	1.47	8.42	10.73	3.92	3.00	5.90	1.20	1.76	5.75	10.68	14.91	4.32	72.06
1986	11.70	14.27	8.11	6.34	5.48	1.36	3.72	0.31	6.13	5.64	14.03	6.54	83.63
1987	12.47	9.65	17.50	4.49	6.19	1.06	2.73	0.88	M1.44	0.72	6.08	15.80	79.01
1988	16.15	6.10	5.96	6.59	9.73	2.71	2.47	0.74	3.18	2.85	21.56	10.62	88.66
1989	14.94	6.08	16.53	3.28	4.85	2.88	2.17	M3.44	0.65	6.76	9.79	8.37	79.74

1990	20.00	16.07	5.95	7.65	6.17	4.78	0.89	1.74	0.22	8.79	14.03	8.18	94.47
1991	9.08	12.80	11.97	13.96	6.40	1.28	0.41	2.06	0.08	4.27	17.01	12.94	92.26
1992	13.44	8.52	2.39	10.86	0.82	0.81	0.87	1.43	5.26	6.75	12.30	13.88	77.33
1993	8.01	1.85	15.15	13.27	8.15	4.43	3.30	0.75	0.09	2.99	4.57	13.18	75.74
1994	12.20	15.14	6.44	6.23	3.03	4.09	0.66	0.80	2.08	15.18	20.09	20.05	105.99
1995	17.50	9.87	9.50	7.15	2.92	4.42	0.93	3.25	4.11	9.58	23.05	15.71	107.99
1996	16.60	20.47	5.17	12.15	7.59	2.52	1.38	1.68	6.41	13.12	17.23	30.86	135.18
1997	18.82	5.30	16.19	8.98	3.51	6.76	2.50	2.29	8.79	14.74	11.66	10.03	109.57
1998	17.52	16.02	10.23	2.44	5.80	4.31	0.46	0.23	1.35	6.78	19.25	26.83	111.22
1999	17.09	23.55	11.09	3.32	8.48	3.76	1.02	1.25	0.26	5.68	25.50	20.84	121.84
2000	13.99	11.38	6.28	5.07	5.17	4.76	0.48	0.52	2.45	8.22	6.94	8.64	73.90
2001	6.63	4.93	9.08	7.88	3.54	4.77	M0.85	2.92	1.18	5.59	15.45	18.26	81.08
2002	22.01	7.79	13.32	8.15	4.08	3.73	0.53	0.10	M1.70	1.48	8.19	19.22	90.30
2003	17.82	7.82	18.84	8.51	3.30	1.23	0.39	0.17	2.62	6.51	10.23	19.96	97.40
2004	20.35	8.58	6.63	4.14	5.15	1.90	0.10	5.95	5.18	9.29	7.04	11.45	85.76
2005	8.14	2.79	8.42	8.83	6.96	5.79	1.63	0.15	4.14	10.12	14.33	13.91	85.21
2006	25.78	4.98	12.01	4.95		2.94	0.76	0.20	3.07	4.12	27.90	13.45	100.16
2007	11.54	15.37	9.66	6.50	2.06	2.69	1.42	1.33	2.52	8.50	8.93	17.24	87.76
2008	15.05	6.70	13.24	9.43	2.72	4.13	0.49	3.62	1.03	4.86	14.86	13.73	89.86
2009	16.13	4.98	11.26	6.23	5.76	1.86	0.39	1.52	2.47	7.52	15.35	7.42	80.89
2010	16.75	8.30	10.39	9.39	6.77	7.64	T	1.42	M3.54	6.88	15.12	18.94	105.14
2011	14.90	10.55	15.90	13.14	4.82	2.77	1.56	0.27	2.34	6.24	14.25	7.82	94.56
2012	19.01	9.97	18.94	9.32	2.88	4.17	0.58	M0.25	0.28	19.49	13.55	20.02	118.46
2013	11.73	8.46	5.02	6.40	7.65	2.26	T	3.72	13.96	3.56	8.82	6.82	78.40
2014	8.36	11.78	14.61	8.10	5.91	2.96	1.74	0.51	3.35	12.49	10.60	16.27	96.68
2015	7.68	10.49	7.64	6.10	2.26	0.85	0.26	1.70	1.54	7.87	15.65	31.90	93.94
2016	14.87	12.61	14.81	4.93	2.38	3.22	2.12	0.71	3.58	18.91	20.51	14.31	112.96
2017	9.09	20.46	21.37	11.57	7.21	5.17	0.03	0.43	4.59	11.40	17.01	10.51	118.84
2018	15.67	9.19	7.50	13.01	0.60	M1.94	0.03	0.66	1.67	8.15	10.48	14.78	83.68
2019	8.04	11.95	3.95	11.15	2.57	1.52	1.23	M0.62	5.72	7.97	3.52	11.60	69.84
2020	23.49	13.11	6.56	3.81	7.81	5.83	0.46	0.95	3.65	5.72	14.31	14.64	100.34
2021	18.15	17.56	7.42	1.56	2.92	2.87	0.15	0.59	6.43	10.91	23.16	16.27	107.99
2022	11.89	6.55	6.96	11.69	11.76	5.81	0.11	0.02	1.39	4.57	13.64	17.28	91.67
2023	10.64	11.15	9.72	12.80	M0.31	1.28	0.21	0.45	2.91	M8.79			58.26

Notes: Data missing in any month have an "M" flag. A "T" indicates a trace of precipitation.
Data missing for all days in a month or year is blank.
Creation date: 2024-12-30

Climatological Data for LINCOLN CITY 1.0 SSW, OR (CoCoRaHS) - October 2024

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2024-10-01	M	M	M	M	M	0.00	0.0	M
2024-10-02	M	M	M	M	M	0.00	0.0	M
2024-10-03	M	M	M	M	M	0.00	0.0	M
2024-10-04	M	M	M	M	M	0.26	M	M
2024-10-05	M	M	M	M	M	0.36	M	M
2024-10-06	M	M	M	M	M	0.00	0.0	M
2024-10-07	M	M	M	M	M	0.00	0.0	M
2024-10-08	M	M	M	M	M	0.02	M	M
2024-10-09	M	M	M	M	M	0.08	M	M
2024-10-10	M	M	M	M	M	0.00	0.0	M
2024-10-11	M	M	M	M	M	0.01	M	M
2024-10-12	M	M	M	M	M	0.00	0.0	M
2024-10-13	M	M	M	M	M	0.00	0.0	M
2024-10-14	M	M	M	M	M	0.00	0.0	M
2024-10-15	M	M	M	M	M	0.33	M	M
2024-10-16	M	M	M	M	M	0.20	M	M
2024-10-17	M	M	M	M	M	0.28	M	M
2024-10-18	M	M	M	M	M	0.05	M	M
2024-10-19	M	M	M	M	M	0.02	M	M
2024-10-20	M	M	M	M	M	0.00	0.0	M
2024-10-21	M	M	M	M	M	1.22	M	M
2024-10-22	M	M	M	M	M	0.21	M	M
2024-10-23	M	M	M	M	M	T	M	M
2024-10-24	M	M	M	M	M	T	M	M
2024-10-25	M	M	M	M	M	T	M	M
2024-10-26	M	M	M	M	M	0.98	M	M
2024-10-27	M	M	M	M	M	1.54	M	M
2024-10-28	M	M	M	M	M	0.63	M	M
2024-10-29	M	M	M	M	M	0.55	M	M
2024-10-30	M	M	M	M	M	0.18	M	M
2024-10-31	M	M	M	M	M	1.15	M	M
Average|Sum	M	M	M	M	M	8.07	0.0	M

Climatological Data for LINCOLN CITY 1.0 SSW, OR (CoCoRaHS) - November 2024

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2024-11-01	M	M	M	M	M	1.35	M	M
2024-11-02	M	M	M	M	M	0.88	M	M
2024-11-03	M	M	M	M	M	0.77	M	M
2024-11-04	M	M	M	M	M	0.16	M	M
2024-11-05	M	M	M	M	M	0.32	M	M
2024-11-06	M	M	M	M	M	0.03	M	M
2024-11-07	M	M	M	M	M	0.00	0.0	M
2024-11-08	M	M	M	M	M	0.00	0.0	M
2024-11-09	M	M	M	M	M	0.00	0.0	M
2024-11-10	M	M	M	M	M	0.02	M	M
2024-11-11	M	M	M	M	M	1.83	M	M
2024-11-12	M	M	M	M	M	0.52	M	M
2024-11-13	M	M	M	M	M	1.24	M	M
2024-11-14	M	M	M	M	M	0.64	M	M
2024-11-15	M	M	M	M	M	0.41	M	M
2024-11-16	M	M	M	M	M	0.01	M	M
2024-11-17	M	M	M	M	M	1.74	M	M
2024-11-18	M	M	M	M	M	0.49	M	M
2024-11-19	M	M	M	M	M	1.07	M	M
2024-11-20	M	M	M	M	M	1.58	M	M
2024-11-21	M	M	M	M	M	0.01	M	M
2024-11-22	M	M	M	M	M	0.74	M	M
2024-11-23	M	M	M	M	M	1.13	M	M
2024-11-24	M	M	M	M	M	1.75	M	M
2024-11-25	M	M	M	M	M	0.97	M	M
2024-11-26	M	M	M	M	M	0.01	M	M
2024-11-27	M	M	M	M	M	0.20	M	M
2024-11-28	M	M	M	M	M	0.01	M	M
2024-11-29	M	M	M	M	M	0.00	0.0	M
2024-11-30	M	M	M	M	M	0.00	0.0	M
Average|Sum	M	M	M	M	M	17.88	0.0	M

Climatological Data for LINCOLN CITY 1.0 SSW, OR (CoCoRaHS) - December 2024

Date	Max Temperature	Min Temperature	Avg Temperature	GDD Base 40	GDD Base 50	Precipitation	Snowfall	Snow Depth
2024-12-01	M	M	M	M	M	0.00	0.0	M
2024-12-02	M	M	M	M	M	0.00	0.0	M
2024-12-03	M	M	M	M	M	0.00	0.0	M
2024-12-04	M	M	M	M	M	0.00	0.0	M
2024-12-05	M	M	M	M	M	0.00	0.0	M
2024-12-06	M	M	M	M	M	0.00	0.0	M
2024-12-07	M	M	M	M	M	1.17	M	M
2024-12-08	M	M	M	M	M	0.23	M	M
2024-12-09	M	M	M	M	M	0.02	M	M
2024-12-10	M	M	M	M	M	0.00	0.0	M
2024-12-11	M	M	M	M	M	0.00	0.0	M
2024-12-12	M	M	M	M	M	0.19	M	M
2024-12-13	M	M	M	M	M	0.09	M	M
2024-12-14	M	M	M	M	M	0.28	M	M
2024-12-15	M	M	M	M	M	M	M	M
2024-12-16	M	M	M	M	M	0.40	M	M
2024-12-17	M	M	M	M	M	1.15	M	M
2024-12-18	M	M	M	M	M	1.93	M	M
2024-12-19	M	M	M	M	M	M	M	M
2024-12-20	M	M	M	M	M	0.26	M	M
2024-12-21	M	M	M	M	M	0.37	M	M
2024-12-22	M	M	M	M	M	S	M	M
2024-12-23	M	M	M	M	M	M	M	M
2024-12-24	M	M	M	M	M	M	M	M
2024-12-25	M	M	M	M	M	M	M	M
2024-12-26	M	M	M	M	M	M	M	M
2024-12-27	M	M	M	M	M	4.61A	M	M
2024-12-28	M	M	M	M	M	0.70	M	M
2024-12-29	M	M	M	M	M	M	M	M
2024-12-30	M	M	M	M	M	M	M	M
2024-12-31	M	M	M	M	M	M	M	M
Average|Sum	M	M	M	M	M	12.16	0.0	M

Appendix D
References

REFERENCES

Adamus, P.R. (2001). *Guidebook for Hydrogeomorphic (HGM)–based Assessment of Oregon Wetland and Riparian Sites: Statewide Classification and Profiles*. Oregon Division of State Lands, Salem, OR.

Cowardin, L. M., C. Carter, F. C. Golet, and E. T. LaRoe. (1979). *Classification of wetlands and deepwater habitats of the United States. FWS/OBS-78/31*. US Department of the Interior, Fish and Wildlife Service, Office of Biological Services, Washington, D.C.

DSL (Oregon Department of State Lands). (2025). Statewide Wetlands Inventory. Salem, Oregon. Available online at https://maps.dsl.state.or.us/swi/. Accessed January 10, 2025.

Environmental Laboratory. (1987). *Corps of Engineers Wetlands Delineation Manual.* Technical Report Y-87-1. US Department of the Army, Corps of Engineers, Waterways Experiment Station, Vicksburg, Mississippi.

EPA (Environmental Protection Agency). (2025). *Antecedent Precipitation Tool.* Version 2.0. Available at: https://www.epa.gov/wotus/antecedent-precipitation-tool-apt.

Nearmap. (2024). Aerial photograph dated April 25, 2024, from the Nearmap application. Available at: https://www.nearmap.com/.

NOAA (National Oceanic and Atmospheric Administration). (2025). WETS and precipitation data. AgACIS Regional Climate Center website. Available at: http://agacis.rcc-acis.org/. Accessed January 10, 2025.

OAR (Oregon Administrative Rules). (2009). OAR 141-085-0515. Revised 9-29-12. Available at: https://secure.sos.state.or.us/oard/displayDivisionRules.action?selectedDivision=350.

ORMAP (2025). The Oregon Map tax map database and viewer. Available online at http://www.ormap.net. Accessed January 10, 2025.

SRI/Shapiro, Inc. (1996). Local Wetlands Inventory for the City of Lincoln City. City of Lincoln City. Portland, OR.

Thorson, T.D., Bryce, S.A., Lammers, D.A., Woods, A.J., Omernik, J.M., Kagan, J., Pater, D.E., and Comstock, J.A. (2003). Ecoregions of Oregon (color poster with map, descriptive text, summary tables, and photographs): Reston, Virginia, U.S. Geological Survey (map scale 1:1,500,000).

USACE (US Army Corps of Engineers). (2005). *Regulatory Guidance Letter No. 05-05: Ordinary high water mark identification*. Available at: https://usace.contentdm.oclc.org/digital/collection/p16021coll9/id/1253/rec/1.

USACE. (2010). *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0).* ed. J.S. Wakeley, R.4. Lichvar, and C.V. Noble. ERDC/EL TR-10-3. Vicksburg, MS. U.S. Army Corps of Engineer Research and Development Center.

USACE. (2020). NCMP Topobathy Lidar: Oregon. Available at: https://coast.noaa.gov/dataviewer/#/.

USACE. (2022a). *Regional Wetland Plant List for the Northwest Mountains, Valleys, and Coast*. Available online at https://nwpl.sec.usace.army.mil/download/. Accessed January 10, 2025.

USACE. (2022b). *National Ordinary High water Mark Field Delineation Manual for Rivers and Streams.* Engineer Research and Development Center. November 29, 2022. Accessed December 8, 2024. Available at: https://hdl.handle.net/11681/46102.

USFWS (US Fish and Wildlife Service). (2024). Wetlands Inventory website. US Department of the Interior, Fish and Wildlife Service, Washington, D.C. Available at https://www.fws.gov/wetlands/data/Mapper.html. Accessed January 10, 2025.