

Exhibit I: Natural Resources Memorandum



Oregon

Tina Kotek, Governor

Department of State Lands

775 Summer Street NE, Suite 100

Salem, OR 97301-1279

(503) 986-5200

FAX (503) 378-4844

www.oregon.gov/dsl

February 6, 2023

State Land Board

Pahlisch Homes, Inc.
Attn: Jerry Jones
210 SW Wilson Ave, Suite 100
Bend, OR 97702

Tina Kotek
Governor

Re: WD # 2022-0558 **Approved**
Wetland Delineation Report for Springbrook District
Yamhill County; T3S R2W S8 TLs 4900, 5000, 5100, 5200, 5300,
5400, 6200, 6300 and Portion of 5500

Shemia Fagan
Secretary of State

Tobias Read
State Treasurer

Dear Jerry Jones:

The Department of State Lands has reviewed the wetland delineation report prepared by AKS Engineering and Forestry, LLC for the site referenced above. Please note that the study area includes only a portion of the tax lots described above (see the attached maps). Based upon the information presented in the report, and additional information submitted upon request, we concur with the wetland and waterway boundaries as mapped in Figure 5, 5A, 5B and 5C of the report. Please replace all copies of the preliminary wetland maps with these final Department-approved maps.

Within the study area, 5 wetlands (Wetland L2, M2, M3, M4 and N, totaling approximately 0.66 acres) and 2 waterways (Hess Creek, Hess Creek West Fork) were identified. They are subject to the permit requirements of the state Removal-Fill Law. Under current regulations, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2-year recurrence interval flood elevation if OHWL cannot be determined).

This concurrence is for purposes of the state Removal-Fill Law only. We recommend that you attach a copy of this concurrence letter to any subsequent state permit application to speed application review. Federal, other state agencies or local permit requirements may apply as well. The U.S. Army Corps of Engineers will determine jurisdiction under the Clean Water Act, which may require submittal of a complete Wetland Delineation Report.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you work with Department staff on appropriate site design before completing the city or county land use approval process.

This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction; individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. If you have any questions, please contact the Jurisdiction Coordinator for Yamhill County, Daniel Evans, PWS, at (503) 986-5271.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter Ryan", with a stylized flourish at the end.

Peter Ryan, SPWS
Aquatic Resource Specialist

Enclosures

ec: Sonya Templeton, AKS Engineering and Forestry, LLC
Newberg Planning Department
Rafael Orozco, Corps of Engineers
Katie Blauvelt, DSL

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.

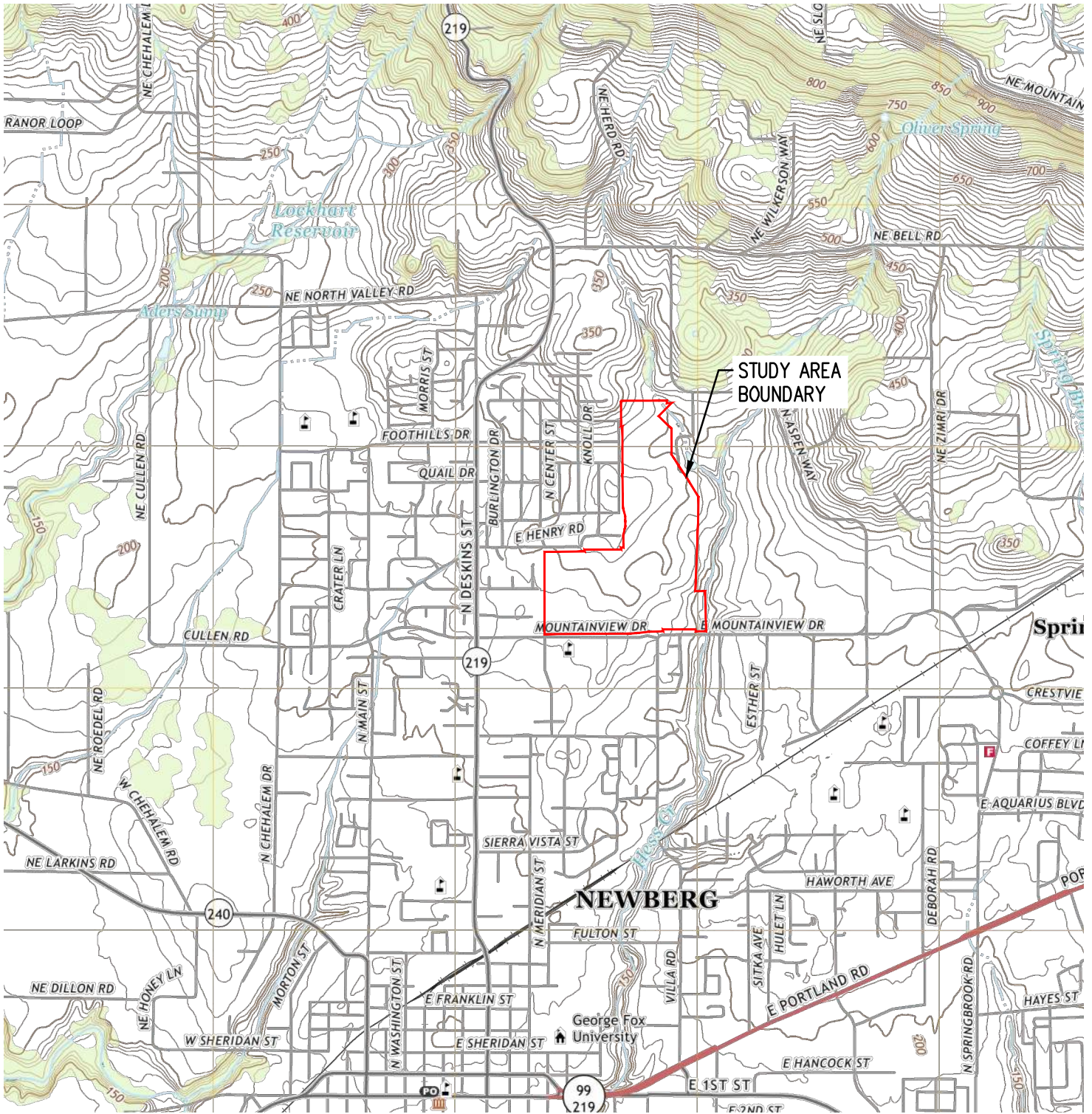
Ways to submit report:

Ways to pay review fee:

- ❖ 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.
- ❖ OR a hard copy of the unbound report and signed cover form can be mailed to: Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279.

- ❖ 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 unbound mailed hardcopy OR attached to the complete signed cover form if report submitted electronically.

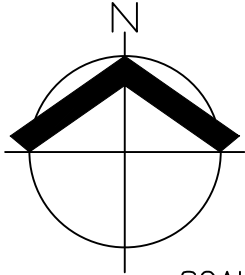
Contact and Authorization Information	
<input checked="" type="checkbox"/> Applicant <input type="checkbox"/> Owner Name, Firm and Address: Pahlisch Homes, Inc. ATTN: Jerry Jones 210 SW Wilson Ave, Suite 100 Bend, OR 97702	Business phone # (503) 906-7832 Mobile phone # (optional) E-mail: Jerryj@pahlisch.com
<input type="checkbox"/> Authorized Legal Agent, Name and Address (if different):	Business phone # Mobile phone # (optional) 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: <u>Jerry Jones</u> Signature: Date: <u>10/4/22</u> Special instructions regarding site access: _____	
Project and Site Information	
Project Name: Springbrook District	Latitude: 45.321068 Longitude: -122.964009 decimal degree - centroid of site or start & end points of linear project
Proposed Use: Residential subdivision	Tax Map # 3 2 08 Tax Lot(s) 4900, 5000, 5100, 5200, 5300, 5400, 6200 and 6300 Tax Map # 3 2 08
Project Street Address (or other descriptive location): North of E Mountainview Drive	Tax Lot(s) Portion of 5500 Township 3S Range 2W Section 08 QQ Use separate sheet for additional tax and location information
City: Newberg County: Yamhill	Waterway: Hess Creek River Mile:
Wetland Delineation Information	
Wetland Consultant Name, Firm and Address: AKS Engineering & Forestry ATTN: Sonya Templeton 12965 SW Herman Road, Suite 100 Tualatin, OR 97062	Phone # (503) 563-6151 Mobile phone # (if applicable) E-mail: templetons@aks-eng.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: <u>10-5-2022</u>	
Primary Contact for report review and site access is <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Applicant/Owner <input type="checkbox"/> Authorized Agent	
Wetland/Waters Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Study Area size: 99.95 Total Wetland Acreage: <u>0.60</u>	
Check Applicable Boxes Below	
<input type="checkbox"/> R-F permit application submitted <input type="checkbox"/> Mitigation bank site <input type="checkbox"/> EFSC/ODOE Proj. Mgr: _____ <input type="checkbox"/> Wetland restoration/enhancement project (not mitigation) <input checked="" type="checkbox"/> Previous delineation/application on parcel If known, previous DSL # <u>WD2014-0016</u>	<input checked="" type="checkbox"/> Fee payment submitted \$ <u>500.00</u> <input type="checkbox"/> Resubmittal of rejected report (\$100) <input type="checkbox"/> Request for Reissuance. See eligibility criteria. (no fee) DSL # _____ Expiration date _____ <input type="checkbox"/> LWI shows wetlands or waters on parcel Wetland ID code _____
For Office Use Only	
DSL Reviewer: <u>DE</u> Fee Paid Date: _____ / _____ / _____	DSL WD # <u>2022-0558</u>
Date Delineation Received: <u>10 / 07 / 22</u>	DSL App.# _____



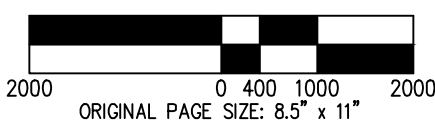
STUDY AREA BOUNDARY

NEWBERG

USGS 7.5' TOPOGRAPHIC SERIES
 QUADRANGLE: NEWBERG, OR (2020)



SCALE: 1" = 2000 FEET



DATE: 09/29/2022

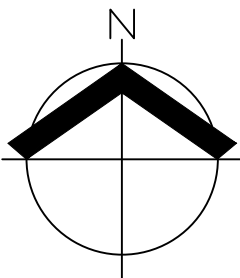
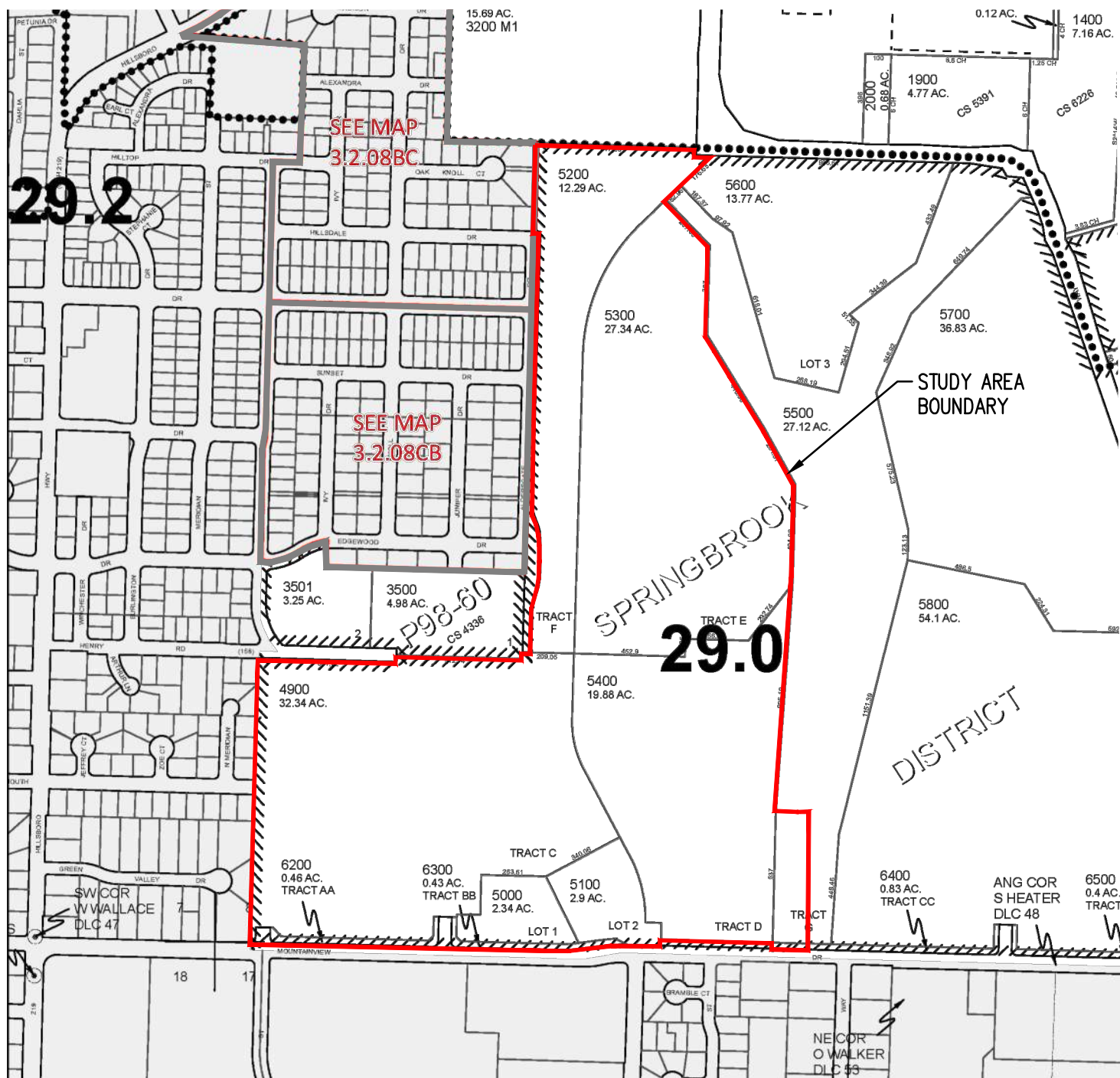
USGS VICINITY MAP
 SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT

FIGURE
1

AKS ENGINEERING & FORESTRY, LLC
 12965 SW HERMAN RD, STE 100
 TUALATIN, OR 97062
 503.563.6151 WWW.AKS-ENG.COM

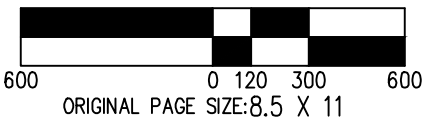


DRWN: RAS
 CHKD: SKT
 AKS JOB:
 4487-01



YAMHILL COUNTY
 TAX LOTS 4900, 5000, 5100, 5200,
 5300, 5400, 6200, 6300 AND
 PORTION OF TAX LOT 5500
 TAX MAP 3 2 08

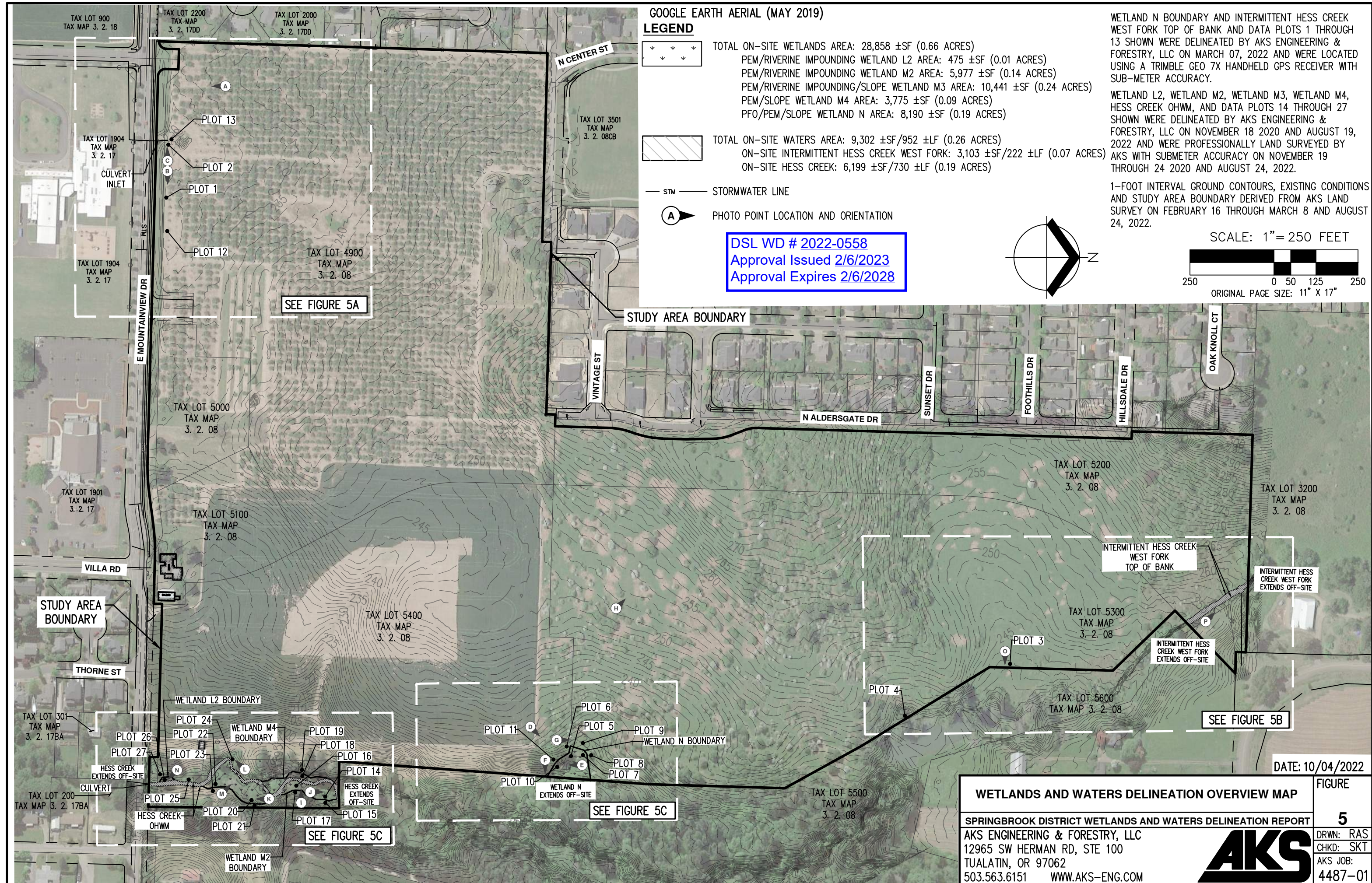
SCALE: 1" = 600 FEET



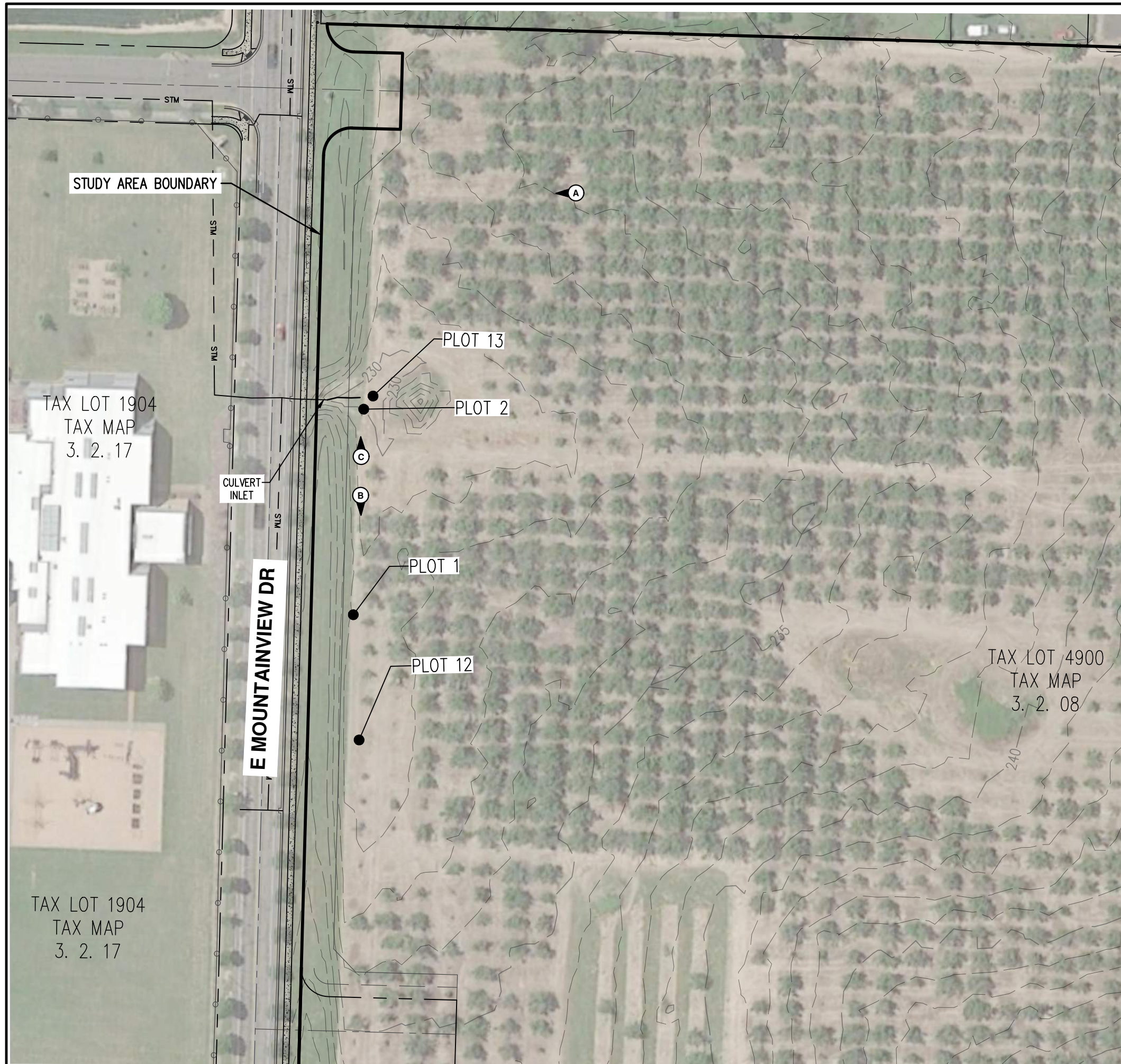
DATE: 09/29/2022

TAX MAP (MAP 3 2 08)		FIGURE
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT		2
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: RAS CHKD: SKT AKS JOB: 4487-01



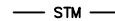





DSL WD # 2022-0558
Approval Issued 2/6/2023
Approval Expires 2/6/2028



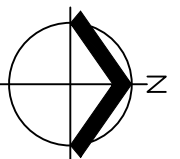
LEGEND

-  TOTAL ON-SITE WETLANDS AREA: 28,858 ±SF (0.66 ACRES)
 PEM/RIVERINE IMPOUNDING WETLAND L2 AREA: 475 ±SF (0.01 ACRES)
 PEM/RIVERINE IMPOUNDING WETLAND M2 AREA: 5,977 ±SF (0.14 ACRES)
 PEM/RIVERINE IMPOUNDING/SLOPE WETLAND M3 AREA: 10,441 ±SF (0.24 ACRES)
 PEM/SLOPE WETLAND M4 AREA: 3,775 ±SF (0.09 ACRES)
 PFO/PEM/SLOPE WETLAND N AREA: 8,190 ±SF (0.19 ACRES)
-  TOTAL ON-SITE WATERS AREA: 9,302 ±SF/952 ±LF (0.26 ACRES)
 ON-SITE INTERMITTENT HESS CREEK WEST FORK: 3,103 ±SF/222 ±LF (0.07 ACRES)
 ON-SITE HESS CREEK: 6,199 ±SF/730 ±LF (0.19 ACRES)
-  STM — STORMWATER LINE
-  A — PHOTO POINT LOCATION AND ORIENTATION

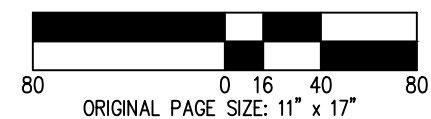
WETLAND N BOUNDARY AND INTERMITTENT HESS CREEK WEST FORK TOP OF BANK AND DATA PLOTS 1 THROUGH 13 SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 07, 2022 AND WERE LOCATED USING A TRIMBLE GEO 7X HANDHELD GPS RECEIVER WITH SUB-METER ACCURACY.

WETLAND L2, WETLAND M2, WETLAND M3, WETLAND M4, HESS CREEK OHWM, AND DATA PLOTS 14 THROUGH 27 SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON NOVEMBER 18 2020 AND AUGUST 19, 2022 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS WITH SUBMETER ACCURACY ON NOVEMBER 19 THROUGH 24 2020 AND AUGUST 24, 2022.

1-FOOT INTERVAL GROUND CONTOURS, EXISTING CONDITIONS AND STUDY AREA BOUNDARY DERIVED FROM AKS LAND SURVEY ON FEBRUARY 16 THROUGH MARCH 8 AND AUGUST 24, 2022.

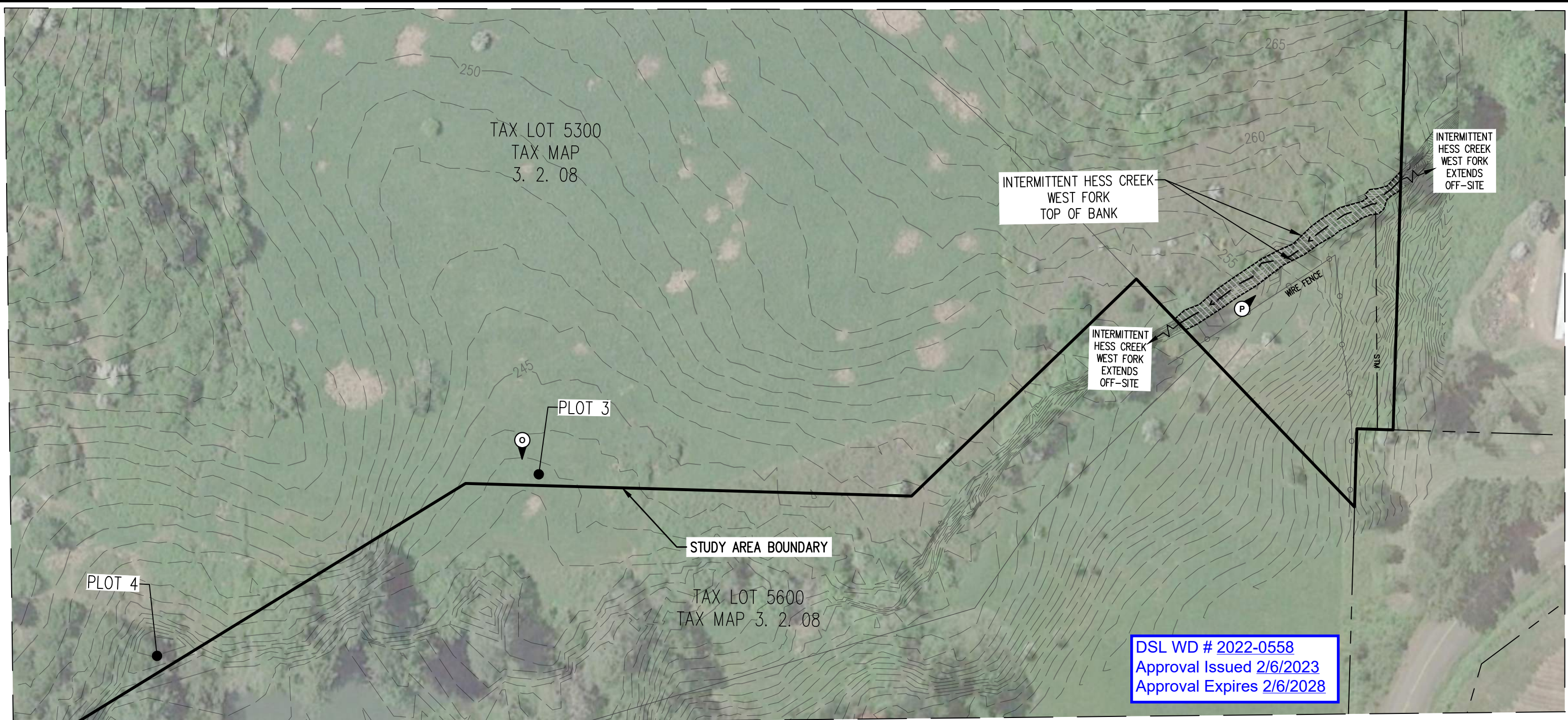


SCALE: 1" = 80 FEET

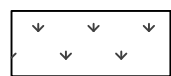

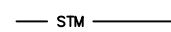



DATE: 10/04/2022

WETLANDS AND WATERS DELINEATION MAP		FIGURE
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT		5A
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: RAS CHKD: SKT AKS JOB: 4487-01



LEGEND

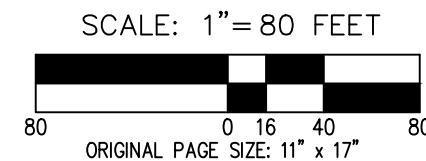
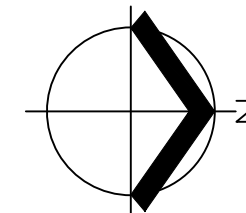
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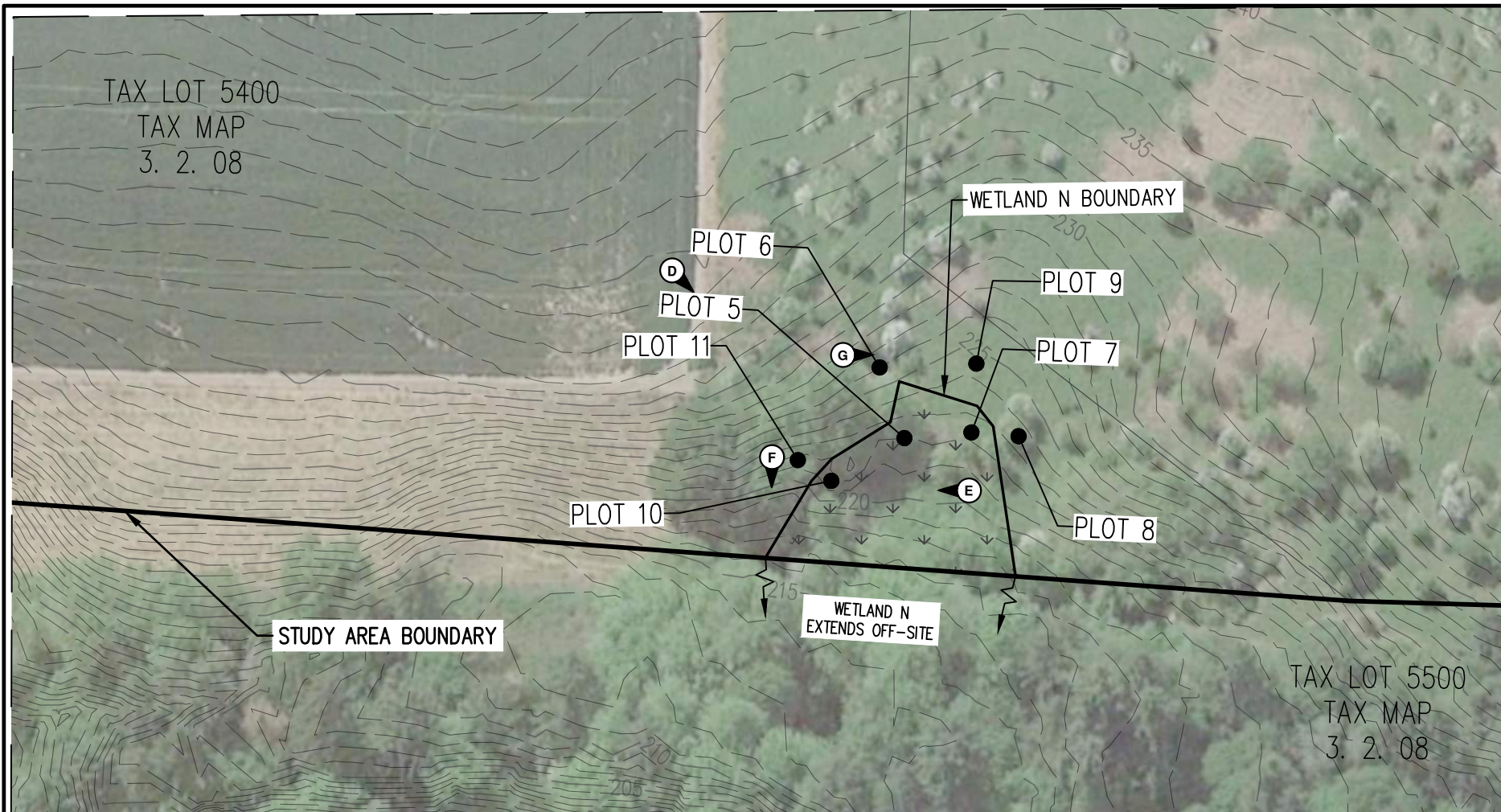
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GOOGLE EARTH AERIAL (MAY 2019)

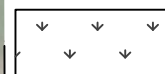


DATE: 10/04/2022

WETLANDS AND WATERS DELINEATION MAP		FIGURE
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT		5B
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: RAS CHKD: SKT AKS JOB: 4487-01



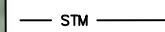
LEGEND



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STORMWATER LINE



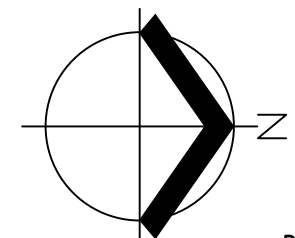
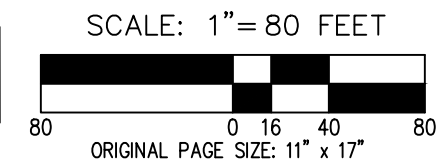
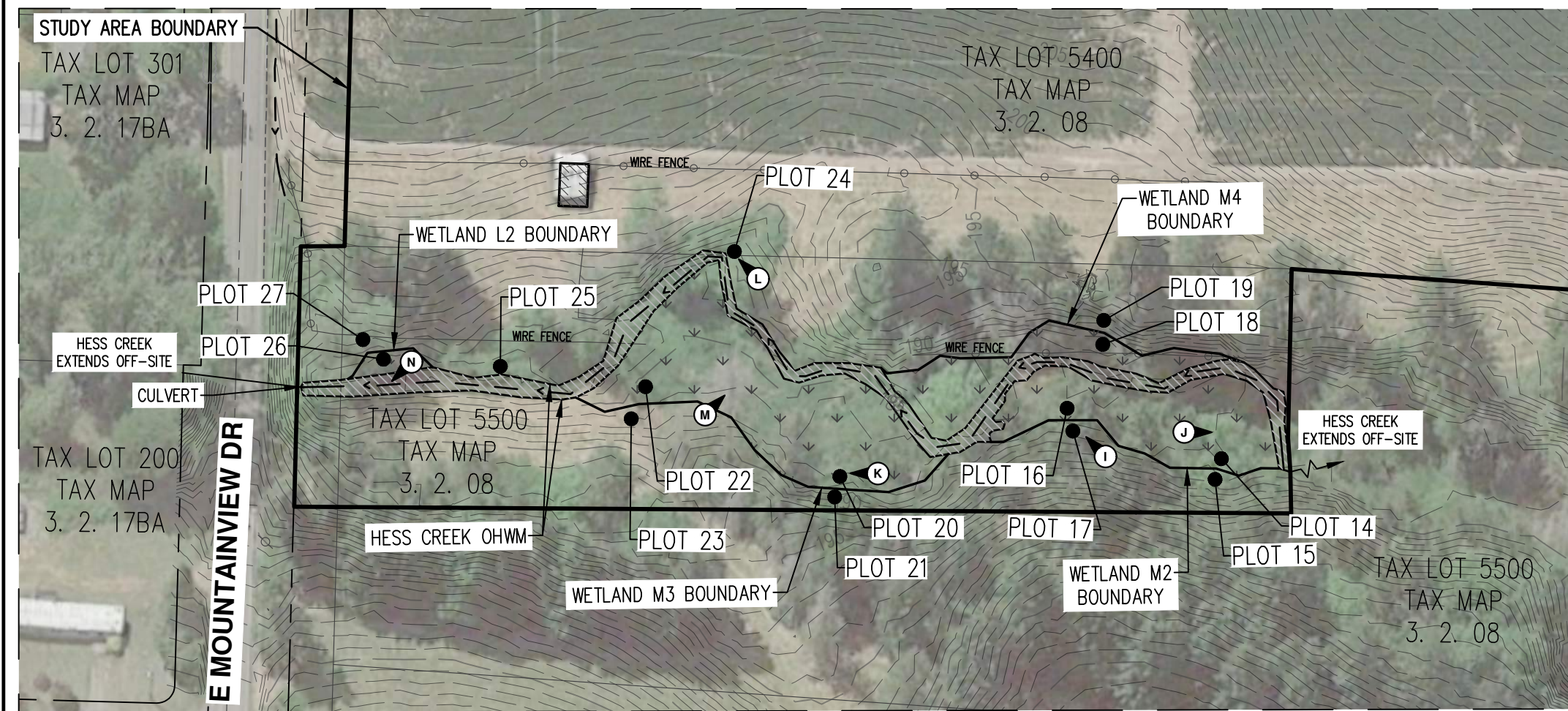
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 Approval Expires 2/6/2028



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WETLANDS AND WATERS DELINEATION MAP		FIGURE
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT		5C
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: RAS CHKD: SKT AKS JOB: 4487-01

Springbrook District Newberg, Oregon Wetlands and Waters Delineation Report

Date: October 2022

Prepared for: Pahlisch Homes, Inc.
210 SW Wilson Ave, Suite 100
Bend, OR 97702

Prepared by: AKS Engineering & Forestry, LLC
Margret Harburg, Natural Resource Specialist
Sonya Templeton, Natural Resource Specialist
503.563.6151 | templetons@aks-eng.com

Study Area: Yamhill County Assessor's Map 3 2 08,
Tax Lots 4900, 5000, 5100, 5200, 5300, 5400, 5200,
6200, 6300 and a portion of Tax Lot 5500
Newberg, Yamhill County, Oregon

AKS Job Number: 4487-01



12965 SW Herman Road, Suite 100
Tualatin, OR 97062
(503) 563-6151

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Appendices

Appendix A: Maps

Figure 1: USGS Vicinity Map

Figure 2: Yamhill County Assessor’s Map

Figure 3: NRCS Soils Survey Map

Figure 4: National Wetland Inventory Map

Figure 5-5C: Wetlands and Waters Delineation Map

Appendix B: Wetland Determination Data Forms

Appendix C: Site Representative Photographs

A. Introduction

This report was prepared by AKS Engineering and Forestry, LLC (AKS) in accordance with Oregon Administrative Rules (OAR) 141-090-0030 and OAR 141-090-0035 and describes the results of a wetland and waters delineation conducted on Tax Lots 4900, 5000, 5100, 5200, 5300, 5400, 5200, 6200, 6300 and a portion of Tax Lot 5500 of Yamhill County Assessor's Map 3 2 08. The study area is ±99.95 acres and is located north of East Mountainview Drive in Newberg, Yamhill County, Oregon (Figures 1 and 2 in Appendix A).

AKS conducted a site visit on November 18, 2020 and delineated the boundaries of two potentially jurisdictional palustrine emergent (PEM) wetland (referred to as Wetland M2 and M4) and the Ordinary High Water Mark (OHWM) of a portion of Hess Creek within the study area. AKS conducted a second site visit on March 7, 2022 to evaluate an additional study area and delineated an additional palustrine forested /emergent (PFO/PEM) wetland (referred to as Wetland N) and one intermittent stream (referred to as Hess Creek West Fork). A third site visit was conducted on August 19, 2022 and delineated the OHWM of a portion of Hess Creek and two associated PEM wetlands (referred to as Wetlands M3 and L2).

A previous delineation was conducted by Pacific Habitat Services, Inc. (PHS) for the greater Springbrook area, including the study area for this report. The PHS delineation received concurrence from Oregon Department of State Lands (DSL) in 2014 under file WD2014-0016. Within the study area, PHS documented seven wetlands (Wetland P1, P2, N, M2, M3, L1 and L2) and portions of Hess Creek West Fork and Hess Creek. This study documents PHS Wetlands P1, P2 and L1 as no longer present. This study also documents Wetland M2 and M3 are slightly larger than the PHS wetland due to upstream beaver dams within the Hess Creek and an additional wetland (Wetland M4). This study does not document a significant change in the extent of Wetlands N and L2. The boundaries of the on-site portion of Hess Creek in the southeastern corner of the study area have not changed significantly from the 2014 PHS delineation.

B. Landscape Setting and Land Use

The study area consists of an agricultural field in the northern portion and a filbert (*Corylus avellana*; FACU) farm in the southwest portion. Vegetation in the northern agricultural field was dominated by planted tall false rye grass (*Schedonorus arundinaceus*; FAC) and clover (*Trifolium* spp.; FAC). The forested riparian corridors were dominant in Oregon ash (*Fraxinus latifolia*; FACW), black cottonwood (*Populus balsamifera*; FAC), big-leaf maple (*Acer macrophyllum*; FACU), Oregon white oak (*Quercus garryana*; FACU), Douglas-fir (*Pseudotsuga menziesii*; FACU), and Himalayan blackberry (*Rubus armeniacus*; FAC).

Topography in the north consists of gentle rolling hills of ±5 to 20 percent slope, with the general slope oriented east towards off-site Hess Creek. Topography in the west slopes southernly towards E Mountain View Drive. Topography in the south slopes downward toward Hess Creek.

The following non-hydric soil units are mapped within the study area, according to the Natural Resources Conservation Service (NRCS) Yamhill County Area Soil Survey Map (Figure 3 in Appendix A):

- Aloha silt loam (Unit 2300A), 0 to 3 percent slopes; Non-hydric
- Amity silt loam (Unit 2301A), 0 to 3 percent slopes; Non-hydric
- Woodburn silt loam (Unit 2310C), 3 to 12 percent slopes; Non-hydric
- Woodburn silt loam (Unit 2310D), 12 to 20 percent slopes; Non-hydric
- Woodburn silt loam (Unit 2310F), 20 to 55 percent slopes; Non-hydric

- Helvetia silt loam (Unit 2311C), 2 to 12 percent slopes; Non-hydric
- Saum-Ritner Complex (Unit 2775F), 30 to 75 percent slopes; Non-hydric
- Witham silty clay loam hummocky (Unit 2798D), 2 to 25 percent slopes; Non-hydric

C. Site Alterations

Google Earth aerial images from May 1994 to June 2021 were reviewed to determine if any site alterations occurred that may have affected the presence, location, or geographic boundaries of any wetlands or waters within the study area. PHS conducted the delineation site visits in November 2012 and spring 2013. The study area has remained relatively unchanged with no new development or land alterations since the PHS delineation.

D. Precipitation Data and Analysis

Observed precipitation data were obtained from the National Weather Service (NWS) McMinnville, Oregon, weather station. The closest NRCS Climate Analysis for Wetlands Tables (WETS) station to the project site is the McMinnville Municipal Airport station. According to the WETS McMinnville Municipal Airport station data, the growing season is between March 3 and November 18. The November 18, 2020, March 7, 2022, and August 19, 2022, site visits were all conducted within the WETS growing season.

Tables 1 through 4 provide a summary of rainfall received on the day of site visit, two weeks prior, and the water-year-to-date (WYTD) for each site visit, along with antecedent rainfall according to the WETS McMinnville Municipal Airport station for the three months prior to each site visit (raw data available upon request):

Table 1: Observed Precipitation

Site Visit Date	Rainfall Day of Site Visit	Rainfall 2 weeks prior (inches)	Water-Year-To-Date [WYTD](inches)	Notes
November 18, 2020	1.35	3.78	7.63	1.22 inches below normal WYTD
March 7, 2022	0.00	3.39	31.39	1.93 inches above normal WYTD
August 19, 2022	0.00	0.04	41.46	6.60 inches above normal WYTD

Table 2: Precipitation Data Prior to the November 18, 2020, Site Visit

Prior Months	Observed Precipitation (Inches)	Average WETS Precipitation (Inches)	30% Chance Will Have		Condition Dry, Wet, Normal	Condition Value (1=dry, 2=normal, 3=wet)	Month Weight	Multiply Previous Two Columns
			Less Than (Inches)	More Than (Inches)				
Oct.	1.48	3.26	1.97	3.95	Dry	1	3	3
Sept.	2.06	1.33	0.51	1.62	Wet	3	2	6
Aug.	0.50	0.35	0.09	0.37	Wet	3	1	3
Sum								Normal
Rainfall of prior period was: drier than normal (sum is 6-9), normal (sum is 10-14), wetter than normal (sum is 15-18)								

Table 3: Precipitation Data Prior to the March 7, 2022, Site Visit

Prior Months	Observed Precipitation (Inches)	Average WETS Precipitation (Inches)	30% Chance Will Have		Condition Dry, Wet, Normal	Condition Value (1=dry, 2=normal, 3=wet)	Month Weight	Multiply Previous Two Columns
			Less Than (Inches)	More Than (Inches)				
Feb. 2022	2.60	3.88	2.21	4.72	Normal	2	3	6
Jan. 2022	4.25	5.55	3.65	6.66	Normal	2	2	4
Dec. 2021	8.50	6.33	4.41	7.52	Wet	3	1	3
Sum								13
								Normal
Rainfall of prior period was: drier than normal (sum is 6-9), normal (sum is 10-14), wetter than normal (sum is 15-18)								

Table 4: Precipitation Data Prior to the August 19, 2022, Site Visit

Prior Months	Observed Precipitation (Inches)	Average WETS Precipitation (Inches)	30% Chance Will Have		Condition Dry, Wet, Normal	Condition Value (1=dry, 2=normal, 3=wet)	Month Weight	Multiply Previous Two Columns
			Less Than (Inches)	More Than (Inches)				
July 2022	0.07	0.19	0.09	0.20	Dry	1	3	3
June 2022	2.93	1.28	0.80	1.54	Wet	3	2	6
May 2022	3.34	1.96	1.27	2.36	Wet	3	1	3
Sum								12
								Normal
Rainfall of prior period was: drier than normal (sum is 6-9), normal (sum is 10-14), wetter than normal (sum is 15-18)								

According to the WETS data, monthly observed precipitation for the McMinnville area was within normal conditions for the three months preceding the November 2020, March 2022, and August 2022 site visits. Precipitation received for the two weeks prior to the November 2020, and March 2022, site visits were well above the amount of rainfall typically received for their respective months, according to WETS data.

E. Site Specific Methods

The methodology used to determine the presence of wetlands followed the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0)*

(Wakeley et al., 2010). The *National Wetland Plant List* (USACE, 2020) was used to assign wetland indicator status for the appropriate region.

Delineation field work was conducted on November 18, 2020, March 7, 2022, and August 19, 2022 by AKS Natural Resource Specialists. To document site conditions, soils, vegetation, and hydrologic indicators were recorded on standardized wetland determination data forms (Appendix B) at 27 sample plot locations.

The 2014 PHS delineation wetland boundaries were uploaded into a handheld Trimble GPS to navigate to DSL concurred boundaries while in the field. Sample plots were taken in former PHS delineated wetlands and in the lowest topographic setting at the site. No NRCS hydric soils are mapped on the site.

Due to wetter than normal conditions in the two weeks preceding the November 2020 and March 2022 site visits, a greater reliance was placed on soils and vegetation data in making the wetland determination. The section on recently developed wetlands described in *Chapter 5: Difficult Wetland Situations; Problematic hydric soils* in the *Regional Supplement* was reviewed for the recently developed wetland area documented during the August 2022 site visit.

The methodology used to determine the presence of the OHWM for the portions of Hess Creek and Hess Creek West Fork mapped within the study area included field indicators in accordance with OAR 141-085-0515(3). The on-site portions of the OHWM were determined by a distinct topographic break and slope, channel scour, exposed roots, and a change in vegetation.

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

Wetland L2

Wetland L2 is a PEM wetland located in the floodplain of Hess Creek, dominant in tall manna grass (*Glyceria elata*; FACW). Wetland L2 receives biennial overbank flooding from Hess Creek; therefore, Wetland L2 belongs to the riverine-impounding hydrogeomorphic (HGM) subclassification. Beaver activity was present within the study area. Plot 26 documents wetland conditions. Soils were of low chroma (chroma of 2 or less), with prominent redoximorphic features meeting hydric soil indicator Redox Dark Surface (F6). Wetland hydrology was met with indicators saturation (A3) and a high water table (A2).

AKS agrees with the boundaries mapped under the 2014 PHS delineation. The wetland boundary is well defined based on changes in the vegetation community from hydrophytic-dominated in wetland to a non-hydrophytic community in the upland. The change in the vegetation community coincides with a change in the landform from concave in the wetland to a higher elevation, convex landform in upland. The adjacent upland was documented at paired upland Plot 27.

Wetland M2

Wetland M2 is a PEM wetland dominant in reed canarygrass (*Phalaris arundinacea*; FACW), water parsley (*Oenanthe sarmentosa*; OBL), and Himalayan blackberry (FAC) located within the Hess Creek floodplain at the toe slope of the adjacent upland. The wetland continues off-site to the north. Wetland M2 receives overbank flooding from Hess Creek; therefore, Wetland M2 belongs to the riverine-impounding hydrogeomorphic (HGM) subclassification.

Plots 14, and 16 document wetland conditions. Soils at these plots were of low chroma (chroma of 2 or less), with distinct or prominent redoximorphic features meeting hydric soil indicator Redox Dark Surface (F6). Wetland hydrology was met at all plots with indicators saturation (A3) or a high water table (A2).

During the November 18, 2020 site visit, the boundaries of M2 were delineated and were expanded from the 2014 PHS delineation. The wetland boundary is well defined based on changes in the vegetation community from hydrophytic-dominated in wetland to a non-hydrophytic community in upland. The change in the vegetation community coincides with a change in the landform from concave in the wetland to a higher elevation, convex landform in upland. The adjacent upland was documented at paired upland Plots 15 and 17.

Wetland M3

Wetland M3 is a PEM wetland dominant in reed canarygrass (FACW), water parsley (OBL) and Himalayan blackberry (FAC). Wetland M3 belongs to both the riverine-impounding and slope hydrogeomorphic (HGM) subclasses, as a portion of the wetland receives overbank flooding from Hess Creek. The southern portion of the wetland is primarily fed by lateral subsurface discharge along with a seasonally high groundwater table.

Plots 20 and 22 document wetland conditions. In the recently formed wetland area documented at Plot 20, soils were of low chroma (chroma of 2 or less), lacking redoximorphic features. The lack of redoximorphic features is likely due to the fact that wetland conditions have not been in place long enough for them to occur (Wakeley et al., 2010) due to the recent beaver activity in the area. However, hydrogen sulfide odor was observed within the surface 12 inches of the soil. Soils at Plot 22 were of a low chroma (chroma of 2 or less) with prominent redoximorphic features meeting hydric soil indicator Redox Dark Surface (F6). Wetland hydrology was met at all plots with indicators saturation (A3) or a high water table (A2). Surface water was present through most of the northern portion of the wetland during the August 2022 site visit.

Under this study, Wetland M3 was mapped as a slightly larger area than the 2014 PHS delineation due to overbank flow from the channel and water being impounded by beaver activity, creating a recently formed wetland (Plot 20, Appendix B). The wetland boundary is well defined based on a change in the landform from concave in the wetland to a higher elevation, convex landform in upland. The change in elevation coincides with a change in soils and hydrology from having hydric soil and hydrology indicators in the wetland, to lacking them in the upland. The adjacent upland was documented at paired upland Plots 21 and 23.

Wetland M4

Wetland M4 is a PEM wetland dominant in reed canarygrass (FACW) located at the toe slope of the adjacent upland. Wetland M4 is located approximately 3 feet higher in elevation than Hess Creek OHWM and likely does not receive biennial overbank flooding. The primary sources of hydrology include lateral subsurface discharge from the adjacent upland and a seasonally high ground water table. Wetland M4 is situated on a subtle slope where water moves freely through the wetland in one direction; therefore, Wetland M4 belongs to the slope hydrogeomorphic (HGM) classification.

Plots 18 documents wetland conditions. Soils at this plot was of low chroma (chroma of 2 or less), with distinct redoximorphic features meeting hydric soil indicator Redox Dark Surface (F6). Wetland hydrology was met with indicator saturation (A3). The wetland boundary was delineated based on a change in

landform from concave landform in wetland to convex hillslope landform in upland. The change in landform coincided with a change in the vegetation community from hydrophytic in wetland to non-hydrophytic in upland. The adjacent upland also lacked hydric soil and wetland hydrology indicators.

Wetland N

Wetland N is a PFO/PEM wetland located near the middle portion of the study area and extends off-site to the east, discharging into Hess Creek. The main hydrology sources for Wetland N are associated with adjacent hillside seeps and a seasonally high groundwater table; therefore, Wetland N belongs to the slope hydrogeomorphic (HGM) classification. Vegetation in the PEM portion of the wetland consisted entirely of planted clover. Vegetation in the PFO portion of the wetland consisted of Oregon ash (FACW), Himalayan blackberry (FAC), and bentgrass (*Agrostis* spp.; assumed FAC). Plots 5, 7, and 10 document wetland conditions. Soils at Plots 5 and 7 were of low chroma (chroma of 2 or less) and value, with prominent redoximorphic features meeting hydric soil indicator Redox Dark Surface (F6). Soils at Plot 10 were of low chroma (chroma of 2 or less) and high value, with prominent redoximorphic features meeting hydric soil indicators Depleted Matrix (F3) and Depleted Below Dark Surface (A11). Wetland hydrology was met at all plots with indicators saturation (A3) and a high water table (A2).

The wetland boundary was defined by a distinct change in topography and a clear shift in vegetation from Oregon ash within the wetland to Oregon white oak in upland. The adjacent upland was documented at paired Plots 6, 8, 9, and 11, which lacked hydric soil indicators. Wetland hydrology was met at these upland plots, but this was likely due to the significant amount of rain received prior to site visit.

Hess Creek

Hess Creek is a perennial tributary to the Willamette River and flows southerly through the southeastern corner of the study, which was delineated during the August 2022 site visit. The on-site portion of the perennial channel had approximately 3 to 5-foot-tall banks, which are deeply incised in some sections, and on average an 8-foot-wide channel. Approximately 2 feet-deep continuous flow was present during the site visit. The channel bed was unvegetated and consisted of a silt substrate. The riparian area was dominated by Oregon ash (FACW), reed canarygrass (FACW), and dense Himalayan blackberry (FAC). Recent beaver activity within Hess Creek created impounded areas. The channel remained mostly unchanged from the 2014 PHS delineation within the study area.

Hess Creek West Fork

Hess Creek West Fork was delineated in the northernmost portion of the study area. Hess Creek West Fork is an intermittent stream flowing beyond the study area to the south into Hess Creek and provides food-producing areas for food and game fish. The on-site channel averaged approximately 5-foot-wide with approximately 1 to 2-foot-tall banks. The channel bed of the Hess Creek West Fork was unvegetated with approximately 6-inch-deep continuous flow during the March 2022 site visit. The riparian area of the Hess Creek West Fork was dominated by black cottonwood (FAC), big-leaf maple (FACU), Oregon white oak (FACU), and dense Himalayan blackberry (FAC). Stream conditions extend off-site to the north and to the south.

The 2014 PHS delineation documented the lower portion of Hess Creek West Fork as being impounded by an artificial earthen dam creating a pond. Plot 4 was taken in an area documented by the 2014 PHS confirming Hess Creek West Fork no longer extends onto the site. The investigation delineated a slightly wider stream channel of the Hess Creek West Fork, as well as documenting stream conditions extending further upstream beyond the former 2014 PHS delineation study area.

Upland

Plot 3 is a standalone plot taken in an area of low topography in the northernmost portion of the study area, in which scattered surface water ponding was observed at the time of the March 7, 2022, site visit. This plot lacked hydric soils and wetland hydrology indicators and was therefore determined to be upland.

Plot 25 was recorded in a floodplain bench adjacent to Hess Creek during the August 19, 2022, site visit. The plot met hydrophytic vegetation; however, it lacked hydric soils and wetland hydrology indicators and was therefore determined to be upland.

Former PHS Wetland P1 and P2

AKS Plots 1, 2, 12 and 13 document upland conditions during the March 2022 site visit within Wetlands P1 and P2 documented under the 2014 PHS delineation. These plots contained a groundwater table within the surface 12-inches but lacked hydric soil indicators. Water temporarily ponds in the vicinity of Wetland P2 at the toe of the Mountainview Drive after rain but does not persist long enough to develop wetland conditions. Surface water after heavy rain discharges from drain tile in the upslope hazelnut orchard, exiting the site through a culvert under East Mountainview Drive. However, water does not pond long enough to develop wetland conditions as documented by lack of hydric soil indicators.

Conditions for Wetland P2 were documented under PHS Plots 49 and 50. Their data indicated redoximorphic features starting at the surface. We did not observe these soil features. The hydrology data at Plot 49 seems to indicate there was surface ponding 2-inches deep, with a groundwater table at 12-inches below ground surface during their November 27, 2012, site visit. Their report documented above average rainfall in November 2012, with hydrology being atypical for that time of year.

Conditions for Wetland P1 were documented under PHS Plot 52, which had very disturbed soils, with a low groundwater table (at 12-inches) for an above average rainfall period. PHS upland Plots 51, 53, and 54 document hydric soil indicators, but lack of hydrology or hydrophytic vegetation.

Former PHS Wetland L1

AKS Plot 24 documents upland conditions within the PHS mapped Wetland L1. During the August 2022 site visit, Plot 24 met hydrophytic vegetation; however, this area lacked hydric soils and wetland hydrology indicators and was therefore determined to be upland.

G. Mapping Method

Wetland N boundary, Hess Creek West Fork, and sample plots 1 through 13 were surveyed using a hand-held Trimble Geo 7X with submeter accuracy during the March 7, 2022 site visit. Wetland L2, Wetland M2, Wetland M3, and Wetland M4 boundaries were flagged in the field with orange pin flags, Hess Creek OHWM was flagged in the field with red pin flags, and sample plots 13 through 27 were flagged in the field with pink pin flags during the November 18, 2020 and August 19, 2022 site visits and were professionally land surveyed by AKS. The wetland and water delineation maps are included as Figures 5 through 5C in Appendix A.

H. Deviation from NWI

The City of Newberg does not have a DSL-approved Local Wetland Inventory (LWI) map. According to the US Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) portions of Hess Creek West Fork and Hess Creek are mapped as freshwater forested/shrub wetlands (Figure 4, Appendix A) within the

study area. AKS agrees with the general location of Hess Creek West Fork and Hess Creek. This study has mapped the boundaries of the riverine feature and adjacent freshwater emergent and forested wetlands with a higher degree of accuracy.

I. Additional Information

Per the 2014 PHS delineation report that previously received concurrence from DSL (WD2014-0016), Wetland L2, M2, M3, and N, Hess Creek, and Hess Creek West Fork were determined jurisdictional to DSL. This study determined these features are still present within the study area and still likely jurisdictional to DSL. Wetlands M2 and M3 were slightly larger in size. An additional wetland documented in the study area (Wetland M4) is likely to be determined jurisdictional to DSL.

Hess Creek is a perennial tributary to the Willamette River, a traditional navigable water (TNW) and is therefore likely jurisdictional to DSL per OAR 141-085-1515(3) and to the US Army Corps of Engineers (USACE). Hess Creek West Fork is a water of the state and provides food-producing areas for food and game fish, and therefore likely jurisdictional to DSL per OAR 141-085-1515(3). Similarly, the USACE will likely take jurisdiction over Hess Creek West Fork as it is a relatively permanent water and tributary to the Willamette River, a TNW.

Wetlands L2, M2, M3, M4, and N are likely jurisdictional to the USACE as the wetlands are adjacent to Hess Creek, a tributary to a TNW.

According to Pacific States Marine Fisheries Commission (PSMFC) StreamNet, Hess Creek and Hess Creek West Fork are mapped as containing coastal cutthroat trout, which is not a state or federally listed species. According to DSL and the Oregon Department of Fish and Wildlife (ODFW), neither Hess Creek nor Hess Creek West Fork are designated as Essential Salmonid Habitat (ESH).

J. Summary of Results and Conclusions

Table 5 below provides a summary of the on-site sizes of the features, hydrologic connections to other nearby waters, flow regime, and our prediction of whether each feature would likely be determined jurisdictional by DSL.

Table 5: Summary of Study Results and Conclusions

Potentially Jurisdictional Feature	Latitude/ Longitude	On-site Area	Flow Regime/ Cowardin Class	Connection to Other Waters/Wetlands	DSL/USACE Predicted Jurisdiction
Wetland L2	45.317762, -122.961416	0.01 acres	PEM/Riverine impounding	Hess Creek	DSL & USACE
Wetland M2	45.318934, -122.961333	0.14 acres	PEM/Riverine impounding	Hess Creek	DSL & USACE
Wetland M3	45.318336, -122.961354	0.24 acres	PEM/Riverine impounding/ Slope	Hess Creek	DSL & USACE
Wetland M4	45.318336, -122.961354	0.09 acres	PEM/Slope	Hess Creek	DSL & USACE
Wetland N	45.321123/ -122.961797	0.19 acres	PFO/PEM Slope	Hess Creek	DSL & USACE
Hess Creek West Fork	45.326092/ -122.963871	0.07 acres	Intermittent	Hess Creek	DSL & USACE

Potentially Jurisdictional Feature	Latitude/ Longitude	On-site Area	Flow Regime/ Cowardin Class	Connection to Other Waters/Wetlands	DSL/USACE Predicted Jurisdiction
Hess Creek	45.319146/-122.961308	0.19 acres	Perennial	Willamette River	DSL & USACE

K. Required Disclaimer

This report documents the investigation, best professional judgment, and conclusions of the investigators. It is correct and complete to the best of our 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 Oregon Department of State Lands in accordance with Oregon Administrative Rules (OAR) 141-090-0005 through 141-090-0055.




L. List of Preparers

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Natural Resource Specialist
Report Preparation

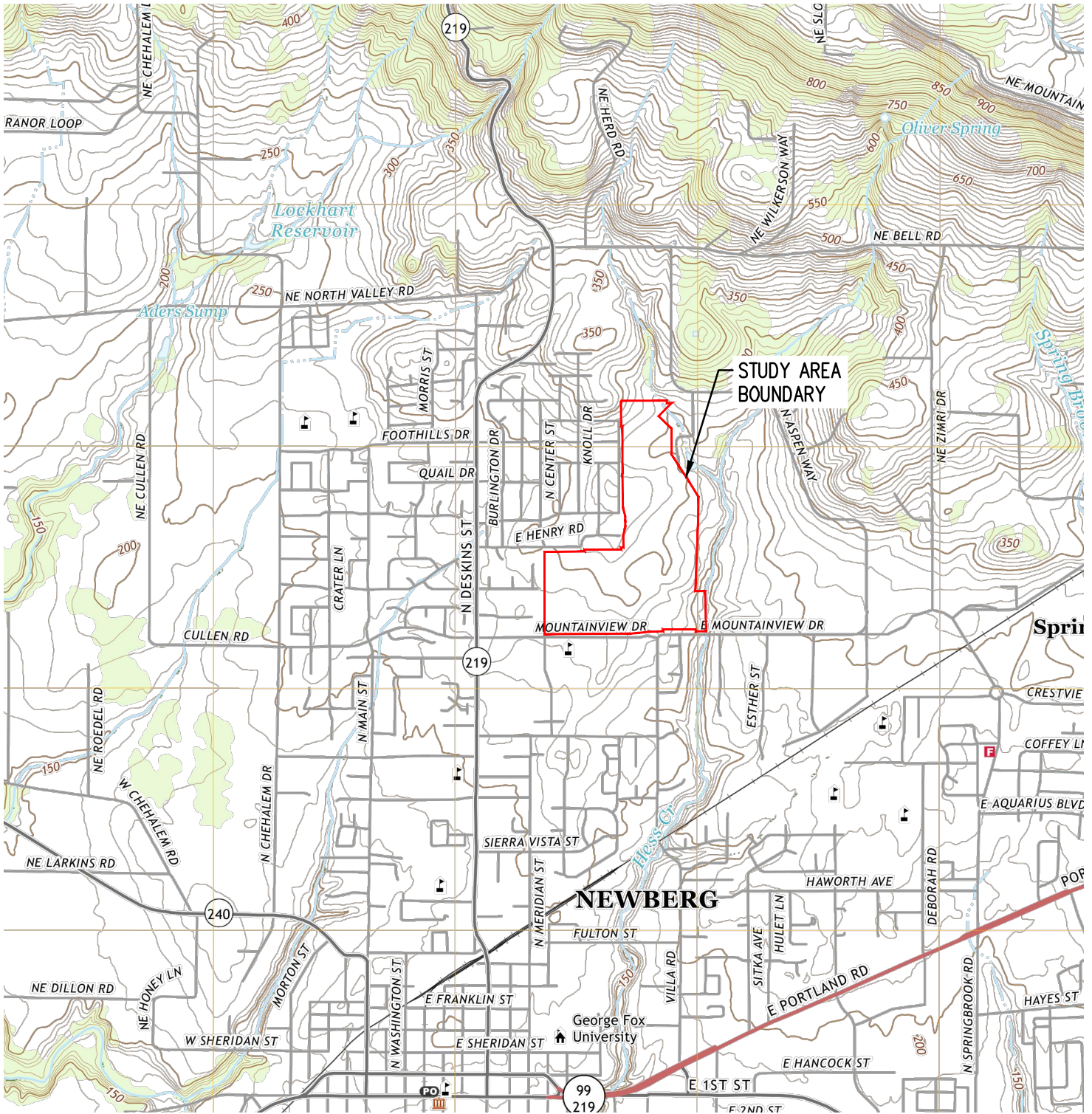
Sonya Templeton
Natural Resource Specialist
Fieldwork and Report QA/QC

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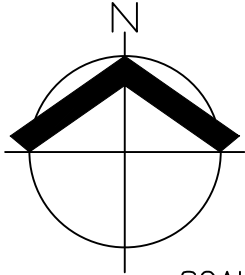
Appendix A: Maps



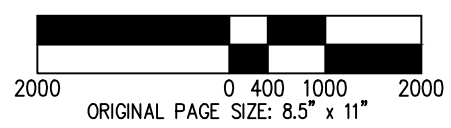
STUDY AREA
BOUNDARY

NEWBERG

USGS 7.5' TOPOGRAPHIC SERIES
QUADRANGLE: NEWBERG, OR (2020)



SCALE: 1" = 2000 FEET



DATE: 09/29/2022

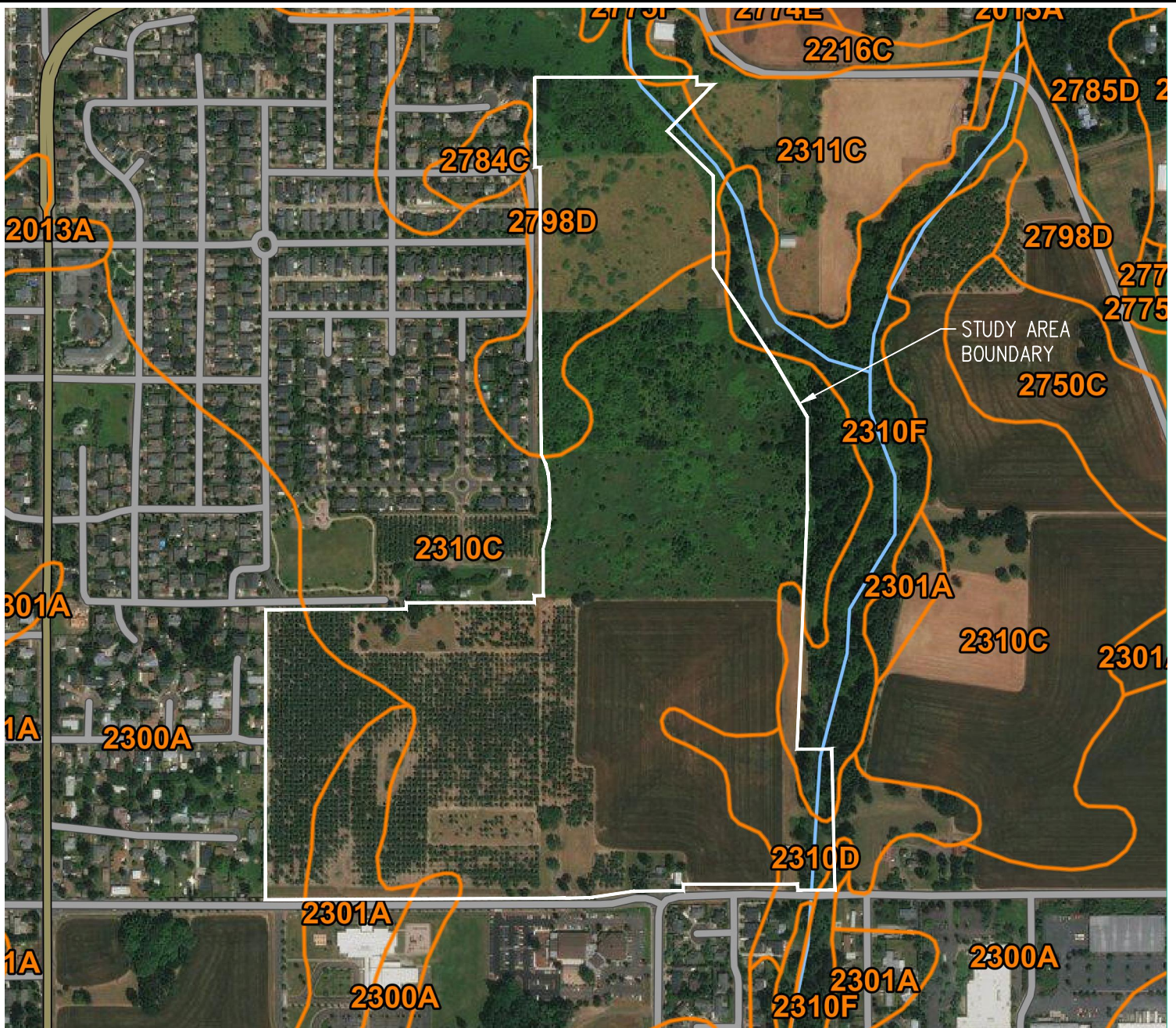
USGS VICINITY MAP
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT

FIGURE
1

AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
503.563.6151 WWW.AKS-ENG.COM



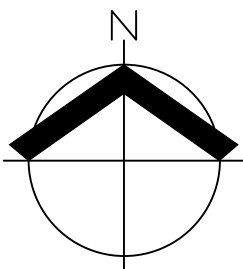
DRWN: RAS
CHKD: SKT
AKS JOB:
4487-01



NRCS WEB SOIL SURVEY
FOR YAMHILL COUNTY

MAP UNIT SYMBOL	MAP UNIT NAME
2300A	ALOHA SILT LOAM, 0% TO 3% SLOPES; NON-HYDRIC
2301A	AMITY SILT LOAM, 0% TO 3% SLOPES; NON-HYDRIC
2310C	WOODBURN SILT LOAM, 3% TO 12% SLOPES; NON-HYDRIC
2310D	WOODBURN SILT LOAM, 12% TO 20% SLOPES; NON-HYDRIC
2310F	WOODBURN SILT LOAM, 20% TO 55% SLOPES; NON-HYDRIC
2311C	HELVETIA SILT LOAM, 2% TO 12% SLOPES; NON-HYDRIC
2775F	SAUM-RITNER COMPLEX, 30% TO 75% SLOPES; NON-HYDRIC
2798D	WITHAM SILTY CLAY LOAM HUMMOCKY, 2% TO 25% SLOPES; NON-HYDRIC

DATE: 09/26/2022



SCALE: 1" = 600 FEET



ORIGINAL PAGE SIZE: 8.5 X 11

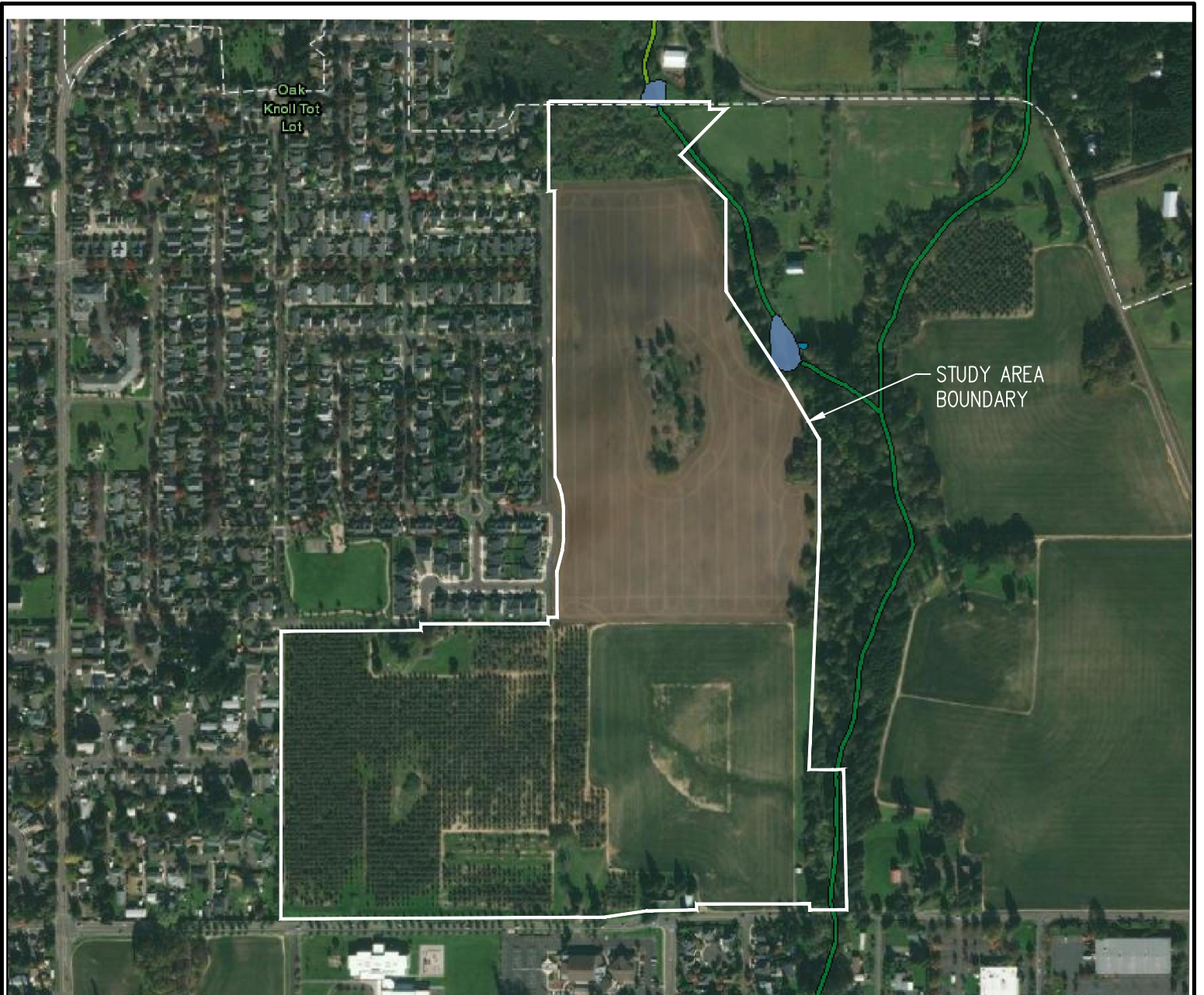
**NRCS SOIL SURVEY MAP
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT**

AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
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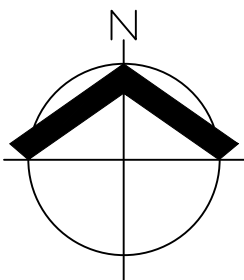
FIGURE
3

DRWN: RAS
CHKD: SKT
AKS JOB:
4487-01

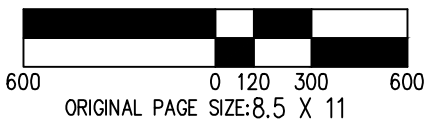


Wetlands					
	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
	Freshwater Pond		Riverine		

US FISH & WILDLIFE SERVICE
NATIONAL WETLANDS INVENTORY



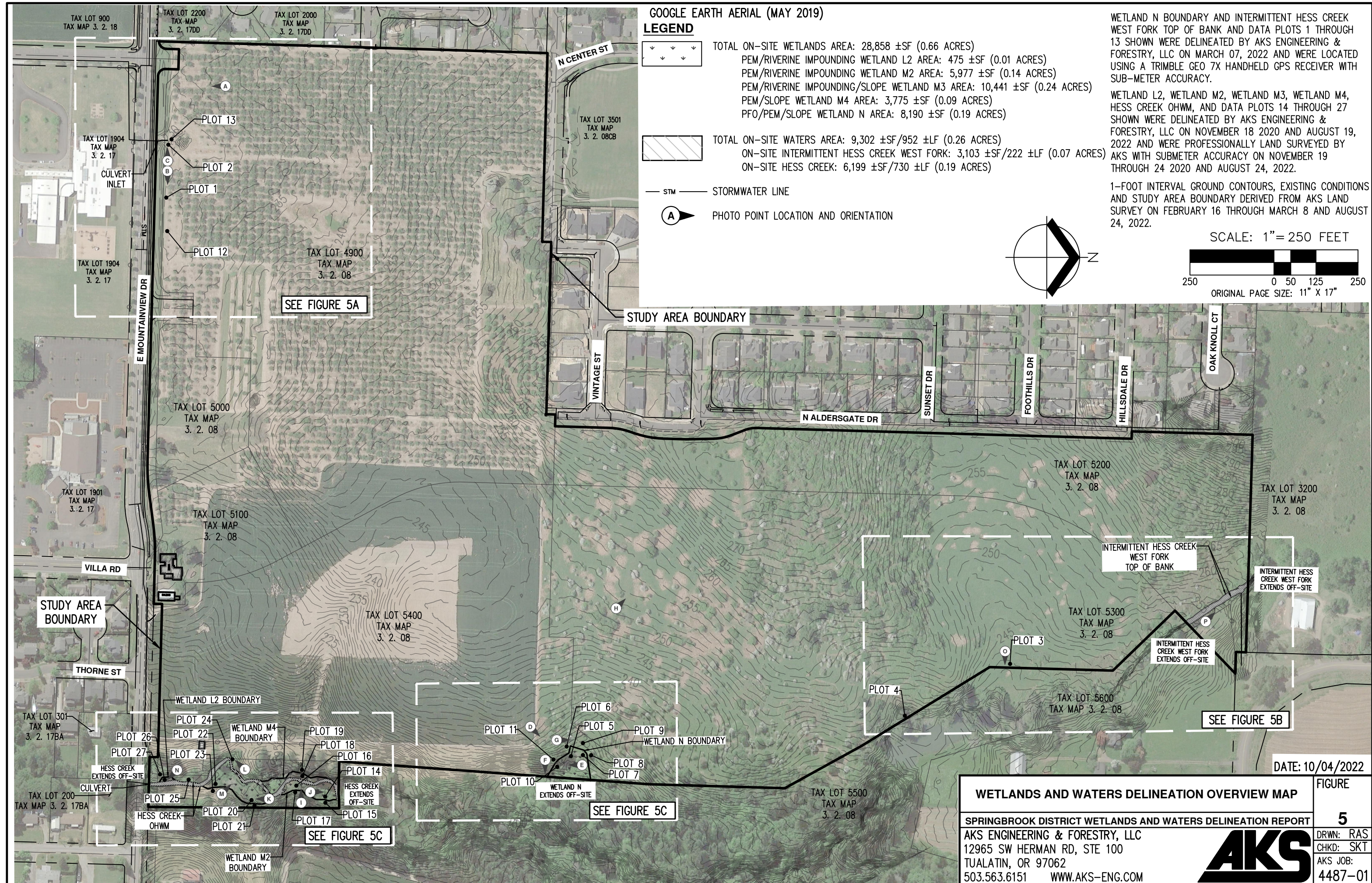
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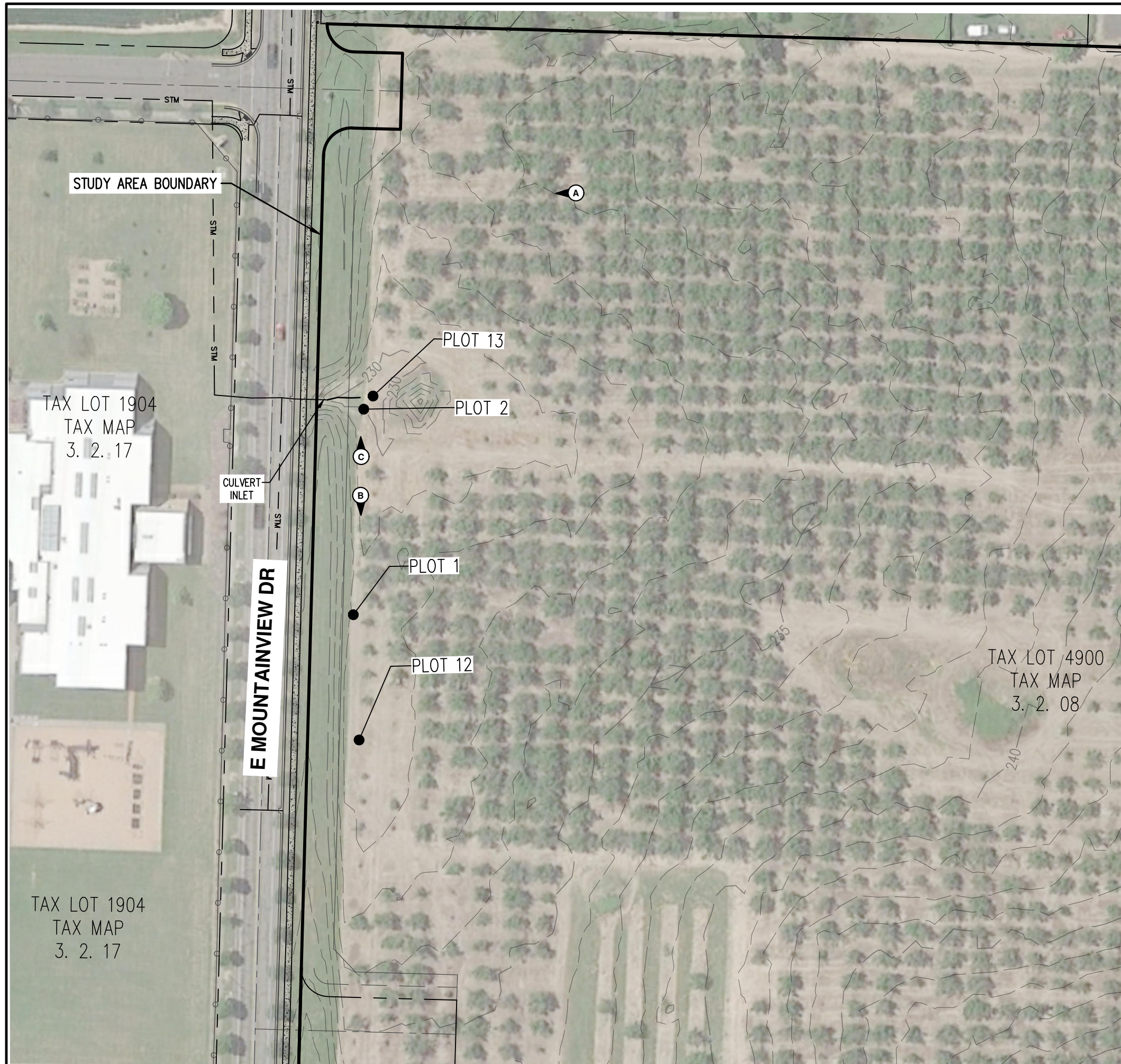
DATE: 09/29/2022

NATIONAL WETLANDS INVENTORY MAP SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT		FIGURE 4
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: RAS CHKD: SKT AKS JOB: 4487-01



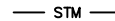





WETLANDS AND WATERS DELINEATION OVERVIEW MAP		FIGURE
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT		5
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: RAS CHKD: SKT AKS JOB: 4487-01



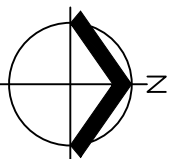
LEGEND

-  TOTAL ON-SITE WETLANDS AREA: 28,858 ±SF (0.66 ACRES)
 PEM/RIVERINE IMPOUNDING WETLAND L2 AREA: 475 ±SF (0.01 ACRES)
 PEM/RIVERINE IMPOUNDING WETLAND M2 AREA: 5,977 ±SF (0.14 ACRES)
 PEM/RIVERINE IMPOUNDING/SLOPE WETLAND M3 AREA: 10,441 ±SF (0.24 ACRES)
 PEM/SLOPE WETLAND M4 AREA: 3,775 ±SF (0.09 ACRES)
 PFO/PEM/SLOPE WETLAND N AREA: 8,190 ±SF (0.19 ACRES)
-  TOTAL ON-SITE WATERS AREA: 9,302 ±SF/952 ±LF (0.26 ACRES)
 ON-SITE INTERMITTENT HESS CREEK WEST FORK: 3,103 ±SF/222 ±LF (0.07 ACRES)
 ON-SITE HESS CREEK: 6,199 ±SF/730 ±LF (0.19 ACRES)
-  STM — STORMWATER LINE
-  A — PHOTO POINT LOCATION AND ORIENTATION

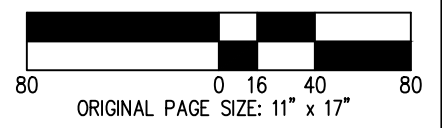
WETLAND N BOUNDARY AND INTERMITTENT HESS CREEK WEST FORK TOP OF BANK AND DATA PLOTS 1 THROUGH 13 SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 07, 2022 AND WERE LOCATED USING A TRIMBLE GEO 7X HANDHELD GPS RECEIVER WITH SUB-METER ACCURACY.

WETLAND L2, WETLAND M2, WETLAND M3, WETLAND M4, HESS CREEK OHWM, AND DATA PLOTS 14 THROUGH 27 SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON NOVEMBER 18 2020 AND AUGUST 19, 2022 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS WITH SUBMETER ACCURACY ON NOVEMBER 19 THROUGH 24 2020 AND AUGUST 24, 2022.

1-FOOT INTERVAL GROUND CONTOURS, EXISTING CONDITIONS AND STUDY AREA BOUNDARY DERIVED FROM AKS LAND SURVEY ON FEBRUARY 16 THROUGH MARCH 8 AND AUGUST 24, 2022.

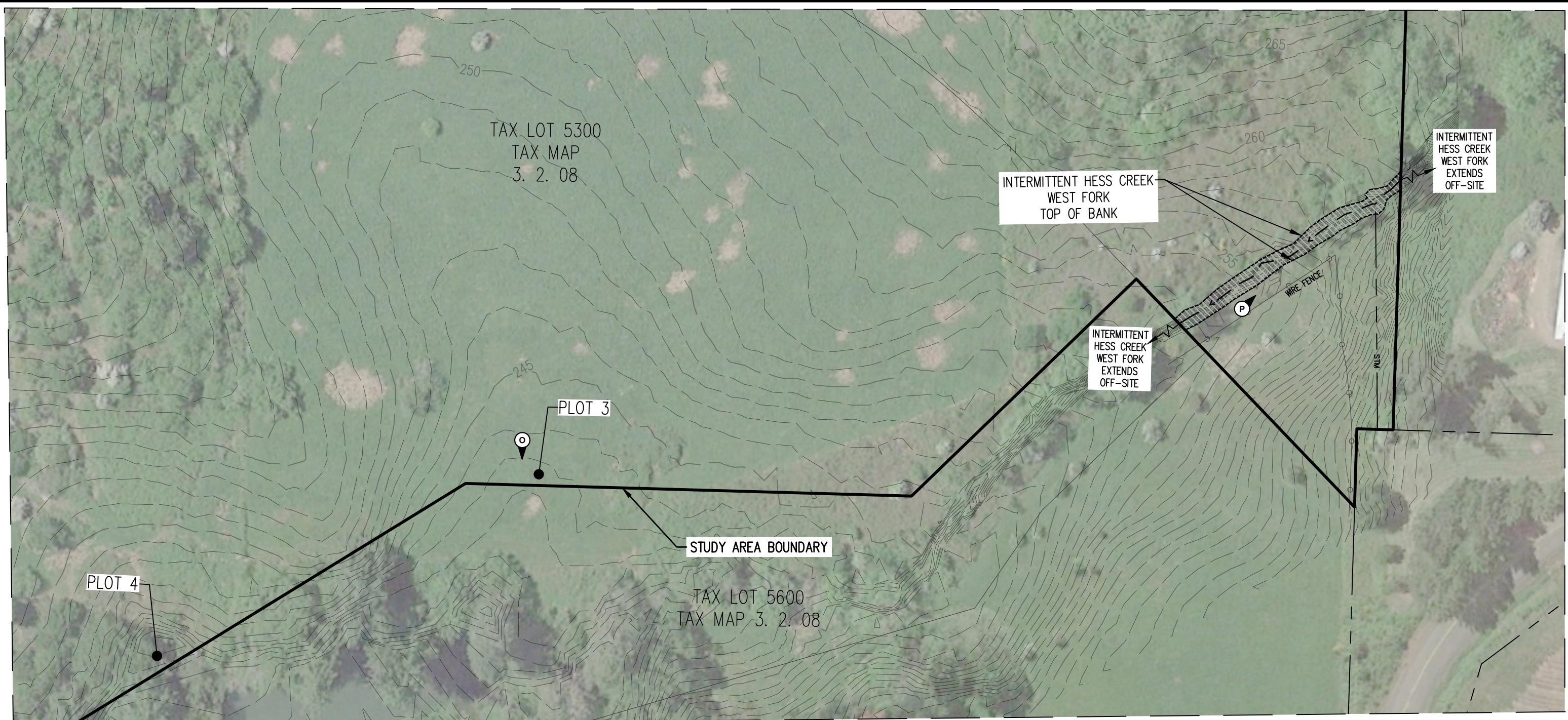


SCALE: 1" = 80 FEET





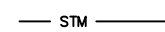

DATE: 10/04/2022

WETLANDS AND WATERS DELINEATION MAP		FIGURE
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT		5A
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: RAS CHKD: SKT AKS JOB: 4487-01



GOOGLE EARTH AERIAL (MAY 2019)

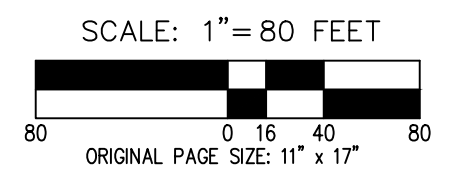
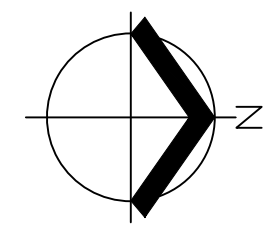
LEGEND

- 
 TOTAL ON-SITE WETLANDS AREA: 28,858 ±SF (0.66 ACRES)
 PEM/RIVERINE IMPOUNDING WETLAND L2 AREA: 475 ±SF (0.01 ACRES)
 PEM/RIVERINE IMPOUNDING WETLAND M2 AREA: 5,977 ±SF (0.14 ACRES)
 PEM/RIVERINE IMPOUNDING/SLOPE WETLAND M3 AREA: 10,441 ±SF (0.24 ACRES)
 PEM/SLOPE WETLAND M4 AREA: 3,775 ±SF (0.09 ACRES)
 PFO/PEM/SLOPE WETLAND N AREA: 8,190 ±SF (0.19 ACRES)
- 
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 ON-SITE HESS CREEK: 6,199 ±SF/730 ±LF (0.19 ACRES)
- 
 STORMWATER LINE
- 
 PHOTO POINT LOCATION AND ORIENTATION

WETLAND N BOUNDARY AND INTERMITTENT HESS CREEK WEST FORK TOP OF BANK AND DATA PLOTS 1 THROUGH 13 SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON MARCH 07, 2022 AND WERE LOCATED USING A TRIMBLE GEO 7X HANDHELD GPS RECEIVER WITH SUB-METER ACCURACY.

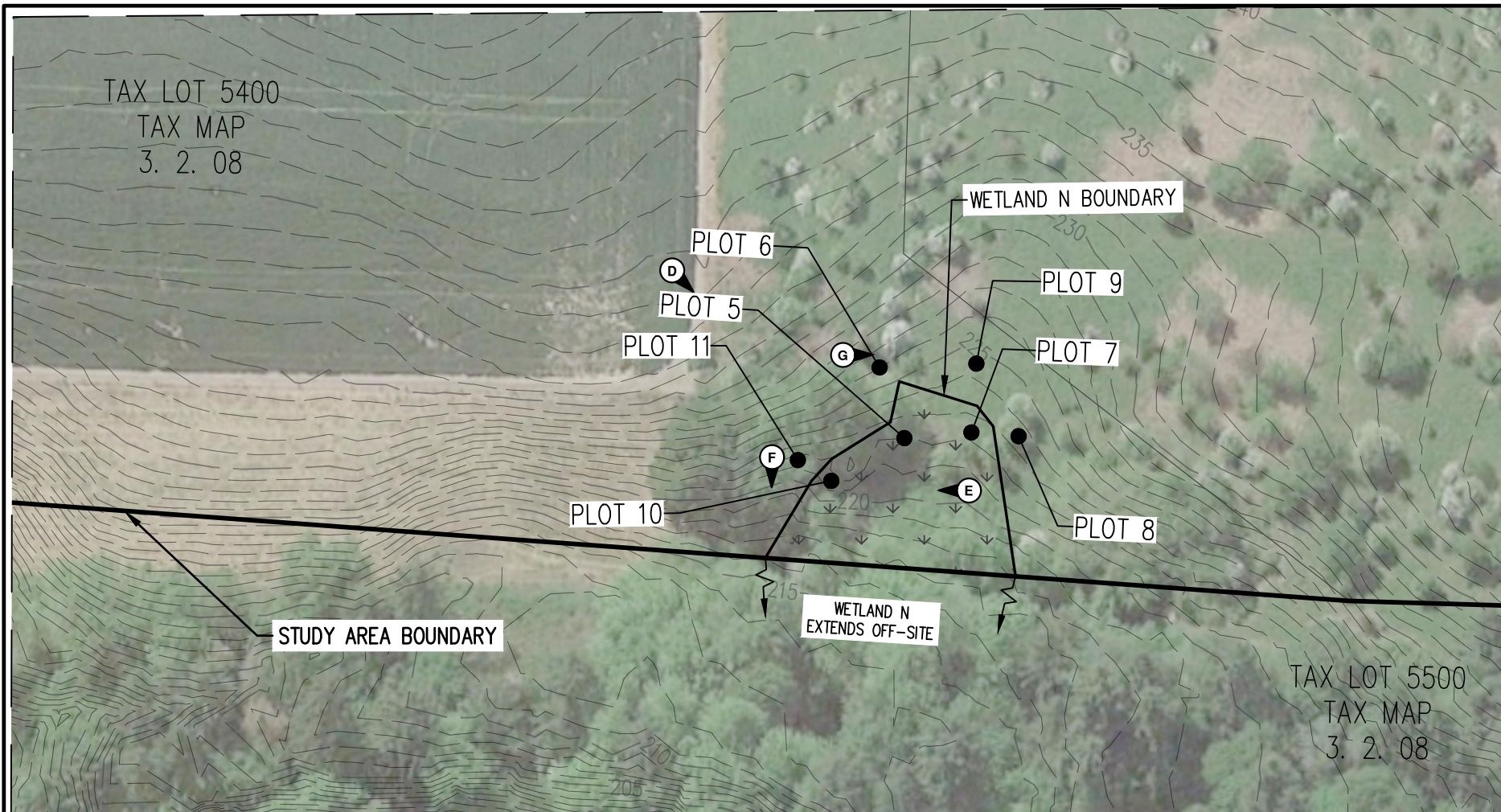
WETLAND L2, WETLAND M2, WETLAND M3, WETLAND M4, HESS CREEK OHWM, AND DATA PLOTS 14 THROUGH 27 SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC ON NOVEMBER 18 2020 AND AUGUST 19, 2022 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS WITH SUBMETER ACCURACY ON NOVEMBER 19 THROUGH 24 2020 AND AUGUST 24, 2022.

1-FOOT INTERVAL GROUND CONTOURS, EXISTING CONDITIONS AND STUDY AREA BOUNDARY DERIVED FROM AKS LAND SURVEY ON FEBRUARY 16 THROUGH MARCH 8 AND AUGUST 24, 2022.





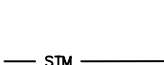








DATE: 10/04/2022

WETLANDS AND WATERS DELINEATION MAP		FIGURE
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT		5B
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: RAS CHKD: SKT AKS JOB: 4487-01



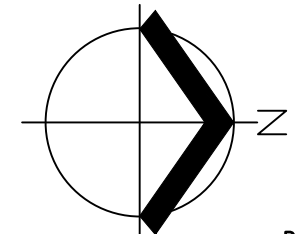
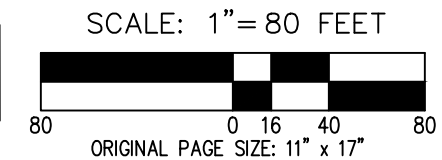
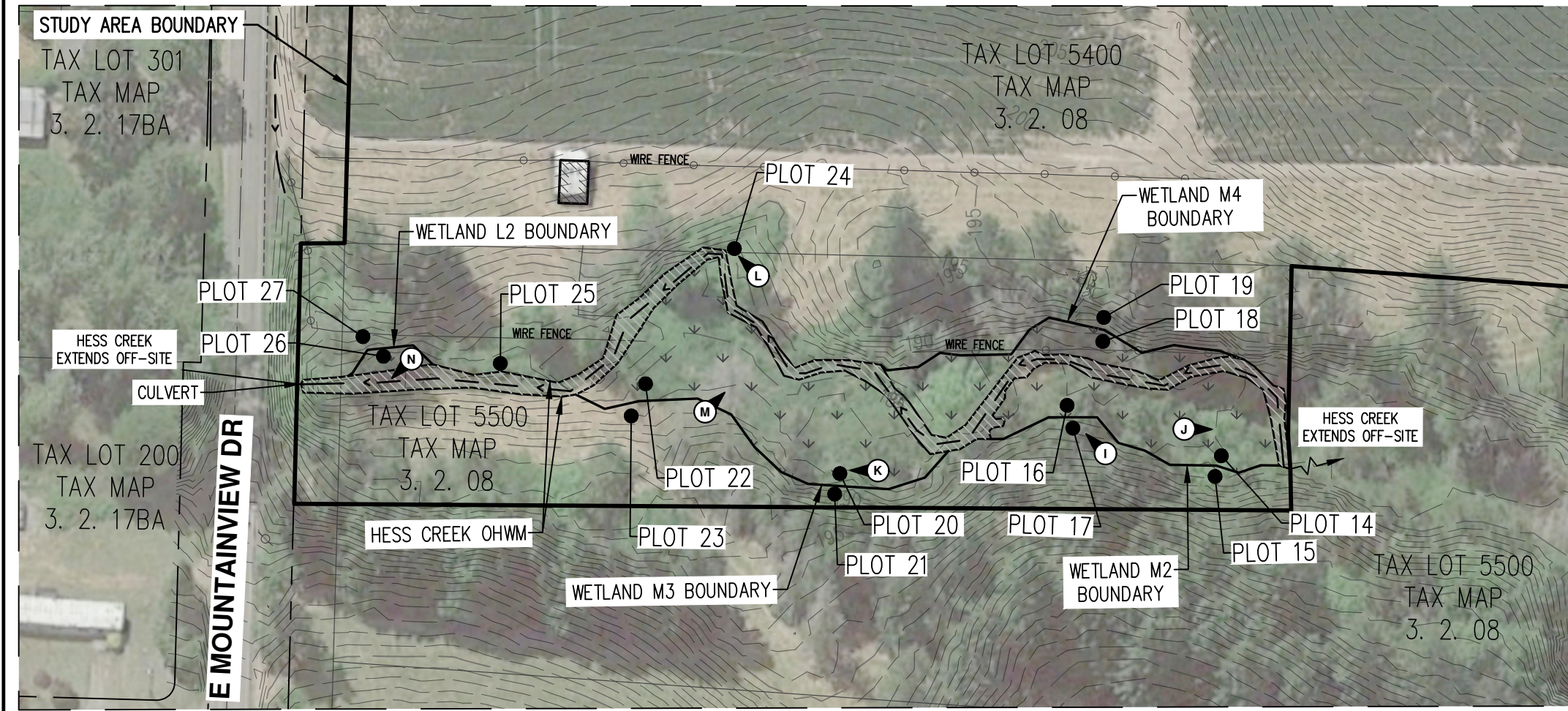
LEGEND

-  TOTAL ON-SITE WETLANDS AREA: 28,858 ±SF (0.66 ACRES)
-  PEM/RIVERINE IMPOUNDING WETLAND L2 AREA: 475 ±SF (0.01 ACRES)
-  PEM/RIVERINE IMPOUNDING WETLAND M2 AREA: 5,977 ±SF (0.14 ACRES)
-  PEM/RIVERINE IMPOUNDING/SLOPE WETLAND M3 AREA: 10,441 ±SF (0.24 ACRES)
-  PEM/SLOPE WETLAND M4 AREA: 3,775 ±SF (0.09 ACRES)
-  PFO/PEM/SLOPE WETLAND N AREA: 8,190 ±SF (0.19 ACRES)
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1-FOOT INTERVAL GROUND CONTOURS, EXISTING CONDITIONS AND STUDY AREA BOUNDARY DERIVED FROM AKS LAND SURVEY ON FEBRUARY 16 THROUGH MARCH 8 AND AUGUST 24, 2022.



DATE: 10/04/2022

WETLANDS AND WATERS DELINEATION MAP		FIGURE
SPRINGBROOK DISTRICT WETLANDS AND WATERS DELINEATION REPORT		5C
AKS ENGINEERING & FORESTRY, LLC 12965 SW HERMAN RD, STE 100 TUALATIN, OR 97062 503.563.6151 WWW.AKS-ENG.COM		DRWN: RAS CHKD: SKT AKS JOB: 4487-01

Appendix B: Wetland Determination Data Forms

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 1
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R. 2W
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.317597 Long: -122.96814486 Datum: _____
 Soil Map Unit Name: Aloha silt loam (Unit 2300A), 0 to 3 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Within PHS Wetland P2.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____		Total % Cover of: _____ Multiply by: _____
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>	
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>	
1. <u>Corylus avellana</u>	10%	Yes	FACU	FAC species <u>95</u> x 3 = <u>285</u>	
2. _____	_____	_____	_____	FACU species <u>10</u> x 4 = <u>40</u>	
3. _____	_____	_____	_____	UPL species <u>10</u> x 5 = <u>50</u>	
4. _____	_____	_____	_____	Column Totals: <u>115</u> (A) <u>375</u> (B)	
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.26</u>	
10% = Total Cover				Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot Size: 5' r or _____)					1 - Rapid Test for Hydrophytic Vegetation
1. <u>Poa species</u>	80%	Yes	FAC		2 - Dominance Test is >50%
2. <u>Geranium molle</u>	10%	No	NOL		3 - Prevalence Index is ≤3.0 ¹
3. <u>Schedonorus arundinaceus</u>	10%	No	FAC		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Rumex crispus</u>	5%	No	FAC		5 - Wetland Non-Vascular Plants ¹
5. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) ¹
6. _____	_____	_____	_____		¹ Indicators of hydric soil and wetland hydrology must be present.
7. _____	_____	_____	_____		Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
105% = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>0%</u>					

Remarks:
 Near planted hazelnut crop.

SOIL	Sampling Point: 1
-------------	--------------------------

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 3/2	97	7.5YR 4/4	3	C	M	SiL	
8-16	10YR 3/2	100					SiL+	

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

<p>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</p> <p><input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present?</p> <p>Yes _____ No X _____</p>
---	---

Remarks:

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11)</p> <p><input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
---	---

<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No X _____ Depth (inches): _____</p> <p>Water Table Present? Yes X _____ No _____ Depth (inches): 2" _____</p> <p>Saturation Present? Yes X _____ No _____ Depth (inches): 7" _____</p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present?</p> <p>Yes X _____ No _____</p>
---	---

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

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 2
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T: 3S, R: 2W
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.317609 Long: -122.96875544 Datum: _____
 Soil Map Unit Name: Aloha silt loam (Unit 2300A), 0 to 3 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
			Yes _____ No <u>X</u>

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Near hazelnut crop and adjacent to stormwater inlet in PHS Wetland P1.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>
1. _____	_____	_____	_____	FAC species <u>100</u> x 3 = <u>300</u>
2. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>100</u> (A) <u>300</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.00</u>
0% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Poa species</u>	<u>80%</u>	<u>Yes</u>	<u>FAC*</u>	
2. <u>Rumex crispus</u>	<u>20%</u>	<u>No</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
100% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>0%</u>				

Remarks:
 *Assumed FAC.

SOIL	Sampling Point: 2
-------------	--------------------------

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-15	10YR 3/2	99	7.5YR 3/4	1	C	M	SiL	

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

<p>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</p> <p><input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present?</p> <p>Yes _____ No <u>X</u></p>
---	---

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)</p>

<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____</p> <p>Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>13"</u></p> <p>Saturation Present? Yes <u>X</u> No _____ Depth (inches): <u>11"</u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present?</p> <p>Yes <u>X</u> No _____</p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Shallow scattered surface water ponding near plot. Pit open ±15 minutes.

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 3
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R. 2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.324604 Long: -122.96304893 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (2310C), 3 to 12 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Plot located in low topography in NE section of SAB.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>
1. _____	_____	_____	_____	FAC species <u>50</u> x 3 = <u>150</u>
2. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>50</u> (A) <u>150</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.00</u>
0% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Trifolium species</u>	<u>50%</u>	<u>Yes</u>	<u>FAC*</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
50% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>50%</u>				

Remarks:
 *Assumed FAC. Vegetation planted.

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/2	100					SIL	

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

<p>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</p> <p>___ Histosol (A1) ___ Sandy Redox (S5) ___ Histic Epipedon (A2) ___ Stripped Matrix (S6) ___ Black Histic (A3) ___ Loamy Mucky Mineral (F1) (except MLRA 1) ___ Hydrogen Sulfide (A4) ___ Loamy Gleyed Matrix (F2) ___ Depleted Below Dark Surface (A11) ___ Depleted Matrix (F3) ___ Thick Dark Surface (A12) ___ Redox Dark Surface (F6) ___ Sandy Mucky Mineral (S1) ___ Depleted Dark Surface (F7) ___ Sandy Gleyed Matrix (S4) ___ Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p>___ 2 cm Muck (A10) ___ Red Parent Material (TF2) ___ Very Shallow Dark Surface (TF12) ___ Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____ Depth (inches): _____</p>	<p>Hydric Soil Present? Yes _____ No <u> X </u></p>
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Remarks:

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p>___ Surface Water (A1) ___ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ___ High Water Table (A2) ___ Salt Crust (B11) ___ Saturation (A3) ___ Aquatic Invertebrates (B13) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres along Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Stunted or Stressed Plants (D1) (LRR A) ___ Surface Soil Cracks (B6) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p>___ 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)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <u> X </u> Depth (inches): _____ Water Table Present? Yes _____ No <u> X </u> Depth (inches): <u> >16" </u> Saturation Present? Yes _____ No <u> X </u> Depth (inches): <u> >16" </u> (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes _____ No <u> X </u></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 4
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.323758 Long: -122.96241191 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310C), 3 to 12 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Plot located in PHS identified Hess creek per WD2014-0016.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>
1. <u>Rubus armeniacus</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>	FAC species <u>35</u> x 3 = <u>105</u>
2. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>35</u> (A) <u>105</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.00</u>
30% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Rumex crispus</u>	<u>4%</u>	<u>No</u>	<u>FAC</u>	
2. <u>Cirsium species</u>	<u>1%</u>	<u>No</u>	<u>FAC*</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
5% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>95%</u>				

Remarks:
 *Assumed FAC.

SOIL	Sampling Point: 4
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/2	100					SiL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> 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 <u> X </u>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Frost-Heave Hummocks (D7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)

Field Observations:				Wetland Hydrology Present? Yes _____ No <u> X </u>
Surface Water Present?	Yes _____ No <u> X </u>	Depth (inches): _____		
Water Table Present?	Yes _____ No <u> X </u>	Depth (inches): <u> >16" </u>		
Saturation Present? (includes capillary fringe)	Yes _____ No <u> X </u>	Depth (inches): <u> >16" </u>		

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

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 5
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): <5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.321045 Long: -122.96182706 Datum: _____
 Soil Map Unit Name: Amity silt loam (Unit 2301A), 0 to 3 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Within vicinity of PHS Wetland N.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>
1. _____	_____	_____	_____	FAC species <u>100</u> x 3 = <u>300</u>
2. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>100</u> (A) <u>300</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.00</u>
0% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Schedonorus arundinaceus</u>	<u>80%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Epilobium species</u>	<u>10%</u>	<u>No</u>	<u>FAC*</u>	
3. <u>Alopecurus pratensis</u>	<u>10%</u>	<u>No</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
100% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>0%</u>				

Remarks:
 *Assumed FAC.

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/2	85	5YR 4/6	15	C	M	SIL+	

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

<p>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</p> <p>___ Histosol (A1) ___ Sandy Redox (S5) ___ Histic Epipedon (A2) ___ Stripped Matrix (S6) ___ Black Histic (A3) ___ Loamy Mucky Mineral (F1) (except MLRA 1) ___ Hydrogen Sulfide (A4) ___ Loamy Gleyed Matrix (F2) ___ Depleted Below Dark Surface (A11) ___ Depleted Matrix (F3) ___ Thick Dark Surface (A12) <u>X</u> Redox Dark Surface (F6) ___ Sandy Mucky Mineral (S1) ___ Depleted Dark Surface (F7) ___ Sandy Gleyed Matrix (S4) ___ Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p>___ 2 cm Muck (A10) ___ Red Parent Material (TF2) ___ Very Shallow Dark Surface (TF12) ___ Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <u>X</u> No _____</p>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p>___ Surface Water (A1) ___ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <u>X</u> High Water Table (A2) ___ Salt Crust (B11) <u>X</u> Saturation (A3) ___ Aquatic Invertebrates (B13) ___ Water Marks (B1) ___ Hydrogen Sulfide Odor (C1) ___ Sediment Deposits (B2) ___ Oxidized Rhizospheres along Living Roots (C3) ___ Drift Deposits (B3) ___ Presence of Reduced Iron (C4) ___ Algal Mat or Crust (B4) ___ Recent Iron Reduction in Tilled Soils (C6) ___ Iron Deposits (B5) ___ Stunted or Stressed Plants (D1) (LRR A) ___ Surface Soil Cracks (B6) ___ Other (Explain in Remarks) ___ Inundation Visible on Aerial Imagery (B7) ___ Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p>___ 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)</p>

<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____</p> <p>Water Table Present? Yes <u>X</u> No _____ Depth (inches): 10"</p> <p>Saturation Present? Yes <u>X</u> No _____ Depth (inches): Surface (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <u>X</u> No _____</p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 6
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): ~5-10
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.321008 Long: -122.96193690 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (2301C), 3 to 12 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
			Yes _____ No <u>X</u>

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Agricultural field planted with clover.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>
1. _____	_____	_____	_____	FAC species <u>50</u> x 3 = <u>150</u>
2. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>50</u> (A) <u>150</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.00</u>
0% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Trifolium species</u>	<u>50%</u>	<u>Yes</u>	<u>FAC*</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
50% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>50%</u>				

Remarks:
 *Assumed FAC.

Hydrophytic Vegetation Present? Yes X No _____

SOIL	Sampling Point: 6
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/3	97	7.5YR 4/4	3	C	M	SiL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):			Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 2 cm Muck (A10)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Red Parent Material (TF2)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Matrix (F3)		
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)		
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)		

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
<u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)	<input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Frost-Heave Hummocks (D7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		

Field Observations:				Wetland Hydrology Present? Yes <u>X</u> No _____
Surface Water Present?	Yes _____	No <u>X</u>	Depth (inches): _____	
Water Table Present?	Yes <u>X</u>	No _____	Depth (inches): <u>14"</u>	
Saturation Present? (includes capillary fringe)	Yes <u>X</u>	No _____	Depth (inches): <u>10"</u>	

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

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 7
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): <5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.321142 Long: -122.96184408 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (2301C), 3 to 12 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Plot located within PHS Wetland N.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>67</u> x 3 = <u>201</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>72</u> (A) <u>226</u> (B) Prevalence Index = B/A = <u>3.14</u>
0% = Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
0% = Total Cover				
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Trifolium species</u>	<u>60%</u>	<u>Yes</u>	<u>FAC*</u>	
2. <u>Agrostis species</u>	<u>5%</u>	<u>No</u>	<u>FAC*</u>	
3. <u>Geranium molle</u>	<u>5%</u>	<u>No</u>	<u>NOL</u>	
4. <u>Vicia species</u>	<u>2%</u>	<u>No</u>	<u>FAC*</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
72% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>28%</u>				

Remarks:
 *Assumed FAC.

Hydrophytic Vegetation Present? Yes X No _____

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 8
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 5-10
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.321221 Long: -122.96184080 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (2301C), 3 to 12 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Near PHS Wetland N. Agricultural field planted with clover.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>
1. _____	_____	_____	_____	FAC species <u>155</u> x 3 = <u>465</u>
2. _____	_____	_____	_____	FACU species <u>2</u> x 4 = <u>8</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>157</u> (A) <u>473</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.01</u>
0% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Trifolium species</u>	<u>80%</u>	<u>Yes</u>	<u>FAC*</u>	
2. <u>Agrostis species</u>	<u>75%</u>	<u>Yes</u>	<u>FAC*</u>	
3. <u>Senecio vulgaris</u>	<u>2%</u>	<u>No</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
157% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>0%</u>				

Remarks:
 *Assumed FAC.

SOIL	Sampling Point: 8
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/2	99	7.5YR 3/4	1	C	M	SiL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>	

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No X
Depth (inches): _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:				Wetland Hydrology Present?
Surface Water Present?	Yes _____ No X	Depth (inches): _____	Yes X No _____	
Water Table Present?	Yes X No _____	Depth (inches): 10"		
Saturation Present? (includes capillary fringe)	Yes X No _____	Depth (inches): 4"		

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

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 9
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): ~5-10
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.321139 Long: -122.96198251 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (2301C), 3 to 12 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Agricultural field planted with clover.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>
1. _____	_____	_____	_____	FAC species <u>5</u> x 3 = <u>15</u>
2. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>5</u> (A) <u>15</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.00</u>
0% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Trifolium species</u>	<u>5%</u>	<u>No</u>	<u>FAC*</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
5% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>95%</u>				

Remarks:
 *Assumed FAC.

SOIL	Sampling Point: 9
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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
0-16	10YR 3/2	98	7.5YR 3/4	2	C	M	SiL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No X
Depth (inches): _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No X Depth (inches): _____	Yes X No _____
Water Table Present? Yes X No _____ Depth (inches): 14"	
Saturation Present? Yes X No _____ Depth (inches): 12" (includes capillary fringe)	

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

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 10
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): ~5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.320935 Long: -122.96169902 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (2301C), 3 to 12 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 PHS Wetland N

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Fraxinus latifolia</u>	<u>50%</u>	<u>Yes</u>	<u>FACW</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. <u>Prunus species</u>	<u>5%</u>	<u>No</u>	<u>FAC*</u>	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
4. _____	_____	_____	_____		
<u>55%</u> = Total Cover				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot Size: 10' r or _____)					
1. <u>Rubus armeniacus</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>	Total % Cover of: _____ Multiply by: _____	
2. _____	_____	_____	_____	OBL species <u>0</u> x 1 = <u>0</u>	
3. _____	_____	_____	_____	FACW species <u>50</u> x 2 = <u>100</u>	
4. _____	_____	_____	_____	FAC species <u>65</u> x 3 = <u>195</u>	
5. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>	
<u>20%</u> = Total Cover				UPL species <u>0</u> x 5 = <u>0</u>	
Herb Stratum (Plot Size: 5' r or _____)				Column Totals: <u>115</u> (A) <u>295</u> (B)	
1. <u>Agrostis species</u>	<u>40%</u>	<u>Yes</u>	<u>FAC*</u>	Prevalence Index = B/A = <u>2.57</u>	
2. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
3. _____	_____	_____	_____		<u> </u> 1 - Rapid Test for Hydrophytic Vegetation
4. _____	_____	_____	_____		<u>X</u> 2 - Dominance Test is >50%
5. _____	_____	_____	_____		<u>X</u> 3 - Prevalence Index is ≤3.0 ¹
6. _____	_____	_____	_____		<u> </u> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
7. _____	_____	_____	_____		<u> </u> 5 - Wetland Non-Vascular Plants ¹
8. _____	_____	_____	_____		<u> </u> Problematic Hydrophytic Vegetation (Explain) ¹
9. _____	_____	_____	_____		¹ Indicators of hydric soil and wetland hydrology must be present.
10. _____	_____	_____	_____		Hydrophytic Vegetation Present? Yes <u>X</u> No _____
11. _____	_____	_____	_____		
<u>40%</u> = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
<u>0%</u> = Total Cover					
% Bare Ground in Herb Stratum <u>60%</u>					

Remarks:
Quercus garyanna rooted immediately upland from plot. Bare ground covered by leaf litter. *Assumed FAC.

SOIL	Sampling Point: 10
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	90	7.5YR 3/4	10	C	M	SiL	
3-13	10YR 4/1	85	7.5YR 3/4	15	15	M	SiCL	
13-16	10YR 4/1	90	7.5YR 3/4	10	C	M	SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

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

- | | |
|---|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

Indicators for Problematic Hydric Soils³:

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

³Indicators 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 _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

- | | |
|--|---|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) |
| <input checked="" type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | |

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 <input checked="" type="checkbox"/>	Depth (inches): _____
Water Table Present?	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): 12"
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/> No _____	Depth (inches): 6"

Wetland

Hydrology Present? Yes No _____

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

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 11
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 5-10
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.320903 Long: -122.96178138 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (2301C), 3 to 12 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 In PHS Wetland N.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Quercus garryana</u>	50%	Yes	FACU	
2. <u>Alnus rubra</u>	5%	No	FAC	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
4. _____	_____	_____	_____	
_____ = Total Cover				Prevalence Index worksheet:
55% = Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				OBL species <u>0</u> x 1 = <u>0</u>
1. _____	_____	_____	_____	FACW species <u>0</u> x 2 = <u>0</u>
2. _____	_____	_____	_____	FAC species <u>25</u> x 3 = <u>75</u>
3. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
4. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
5. _____	_____	_____	_____	Column Totals: <u>25</u> (A) <u>75</u> (B)
_____ = Total Cover				Prevalence Index = B/A = <u>3.00</u>
0% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Agrostis species</u>	20%	Yes	FAC*	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
_____ = Total Cover				1 - Rapid Test for Hydrophytic Vegetation
20% = Total Cover				2 - Dominance Test is >50%
_____ = Total Cover				X 3 - Prevalence Index is ≤3.0 ¹
_____ = Total Cover				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
_____ = Total Cover				5 - Wetland Non-Vascular Plants ¹
_____ = Total Cover				Problematic Hydrophytic Vegetation (Explain) ¹
_____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present.
Woody Vine Stratum (Plot Size: 10' r or _____)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
0% = Total Cover				
% Bare Ground in Herb Stratum <u>80%</u>				

Remarks:
 *Assumed FAC.

SOIL	Sampling Point: 11
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	10YR 3/2	100					SiL	
14-16	10YR 4/1	95	7.5YR 3/4	5	C	M	SiCL	

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

<p>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</p> <p><input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5)</p> <p><input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6)</p> <p><input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1)</p> <p><input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2)</p> <p><input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3)</p> <p><input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6)</p> <p><input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7)</p> <p><input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10)</p> <p><input type="checkbox"/> Red Parent Material (TF2)</p> <p><input type="checkbox"/> Very Shallow Dark Surface (TF12)</p> <p><input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present):</p> <p>Type: _____</p> <p>Depth (inches): _____</p>	<p>Hydric Soil Present?</p> <p>Yes _____ No X _____</p>
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Remarks:

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> High Water Table (A2)</p> <p><input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Salt Crust (B11)</p> <p><input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Aquatic Invertebrates (B13)</p> <p><input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1)</p> <p><input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)</p> <p><input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4)</p> <p><input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</p> <p><input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A)</p> <p><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks)</p> <p><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)</p> <p><input type="checkbox"/> Drainage Patterns (B10)</p> <p><input type="checkbox"/> Dry-Season Water Table (C2)</p> <p><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</p> <p><input type="checkbox"/> Geomorphic Position (D2)</p> <p><input type="checkbox"/> Shallow Aquitard (D3)</p> <p><input type="checkbox"/> FAC-Neutral Test (D5)</p> <p><input type="checkbox"/> Raised Ant Mounds (D6) (LRR A)</p> <p><input type="checkbox"/> Frost-Heave Hummocks (D7)</p>
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<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No X _____ Depth (inches): _____</p> <p>Water Table Present? Yes X _____ No _____ Depth (inches): 14"</p> <p>Saturation Present? Yes X _____ No _____ Depth (inches): 12"</p> <p>(includes capillary fringe)</p>	<p>Wetland Hydrology Present?</p> <p>Yes X _____ No _____</p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 12
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.317621 Long: -122.96775679 Datum: _____
 Soil Map Unit Name: Aloha silt loam (Unit 2300A), 0 to 3 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation X, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Within PHS Wetland P2.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	_____	_____	_____		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:	
5. _____	_____	_____	_____		Total % Cover of: _____ Multiply by: _____
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>	
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>	
1. <u>Corylus avellana</u>	10%	Yes	FACU	FAC species <u>85</u> x 3 = <u>255</u>	
2. _____	_____	_____	_____	FACU species <u>10</u> x 4 = <u>40</u>	
3. _____	_____	_____	_____	UPL species <u>10</u> x 5 = <u>50</u>	
4. _____	_____	_____	_____	Column Totals: <u>105</u> (A) <u>345</u> (B)	
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.29</u>	
10% = Total Cover				Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot Size: 5' r or _____)					1 - Rapid Test for Hydrophytic Vegetation
1. <u>Poa species</u>	60%	Yes	FAC*		2 - Dominance Test is >50%
2. <u>Schedonorus arundinaceus</u>	15%	No	FAC		3 - Prevalence Index is ≤3.0 ¹
3. <u>Geranium molle</u>	10%	No	NOL		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>Rumex crispus</u>	5%	No	FAC*		5 - Wetland Non-Vascular Plants ¹
5. <u>Allium species</u>	5%	No	FAC*		Problematic Hydrophytic Vegetation (Explain) ¹
6. _____	_____	_____	_____		¹ Indicators of hydric soil and wetland hydrology must be present.
7. _____	_____	_____	_____		
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
95% = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>5%</u>					

Remarks:
 *Assumed FAC.

Hydrophytic Vegetation Present? Yes _____ No X

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 3/2	99	7.4YR 4/4	1	C	M	SiL	
9-16	10YR 3/2	70	10YR 4/3	30	C	M	SiCL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No X _____
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations: Surface Water Present? Yes _____ No X _____ Depth (inches): _____ Water Table Present? Yes X _____ No _____ Depth (inches): 15" Saturation Present? Yes X _____ No _____ Depth (inches): 14" (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No X _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Project/Site: Springbook District City/County: Newberg/ Yamhill County Sampling Date: 3/7/2022
 Applicant/Owner: Pahlisch Homes, Inc. State: OR Sampling Point: 13
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec 8, T. 3S, R; 2W
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): <5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.317633 Long: -122.96881967 Datum: _____
 Soil Map Unit Name: Aloha silt loam (Unit 2300A), 0 to 3 percent slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the McMinnville Municipal AP weather station, no rainfall was received on the day of the site visit and 3.39 inches within the two weeks prior.

Remarks:
 Located adjacent to inlet within PHS Wetland P1.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>0</u> x 2 = <u>0</u>
1. _____	_____	_____	_____	FAC species <u>95</u> x 3 = <u>285</u>
2. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>95</u> (A) <u>285</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.00</u>
0% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Poa species</u>	<u>90%</u>	<u>Yes</u>	<u>FAC*</u>	
2. <u>Rumex crispus</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
95% = Total Cover				1 - Rapid Test for Hydrophytic Vegetation _____
Woody Vine Stratum (Plot Size: 10' r or _____)				X 2 - Dominance Test is >50% _____
1. _____	_____	_____	_____	X 3 - Prevalence Index is ≤3.0 ¹ _____
2. _____	_____	_____	_____	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____
0% = Total Cover				5 - Wetland Non-Vascular Plants ¹ _____
% Bare Ground in Herb Stratum <u>5%</u>				Problematic Hydrophytic Vegetation (Explain) ¹ _____
				¹ Indicators of hydric soil and wetland hydrology must be present.
				Hydrophytic Vegetation Present? Yes <u>X</u> No _____

Remarks:
 *Assumed FAC.

SOIL	Sampling Point: 13
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	10YR 3/2	97	7.5YR 4/4	3	C	M	SiL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>	

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No X
Depth (inches): _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:				Wetland Hydrology Present?
Surface Water Present?	Yes _____ No X	Depth (inches): _____	Yes X No _____	
Water Table Present?	Yes X No _____	Depth (inches): 13"		
Saturation Present? (includes capillary fringe)	Yes X No _____	Depth (inches): 11"		

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

Remarks:

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

Project/Site: Springbrook Hess Creek City/County: Newberg/Yamhill Sampling Date: 11/18/2020
 Applicant/Owner: Springbrook Properties, Inc. State: OR Sampling Point: 14
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T.3S., R.2W., W.M.
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.318817 Long: -122.96138571 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310F), 20 to 55% slopes; Non-hydric NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the NWS McMinnville weather station, 1.35 inches of rainfall was received on the day of the site visit and 3.78 inches within the two weeks prior.

Remarks:

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>30</u> x 1 = <u>30</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>2</u> x 2 = <u>4</u>
1. <u>Rubus armeniacus</u>	<u>25%</u>	<u>Yes</u>	<u>FAC</u>	FAC species <u>38</u> x 3 = <u>114</u>
2. <u>Rubus leucodermis</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>	FACU species <u>20</u> x 4 = <u>80</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>90</u> (A) <u>228</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.53</u>
35% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Oenanthe sarmentosa</u>	<u>30%</u>	<u>Yes</u>	<u>OBL</u>	1 - Rapid Test for Hydrophytic Vegetation
2. <u>Carex leptopoda</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	2 - Dominance Test is >50%
3. <u>Urtica dioica</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>	X 3 - Prevalence Index is ≤3.0 ¹
4. <u>Epilobium ciliatum</u>	<u>2%</u>	<u>No</u>	<u>FACW</u>	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. <u>Ranunculus repens</u>	<u>1%</u>	<u>No</u>	<u>FAC</u>	5 - Wetland Non-Vascular Plants ¹
6. _____	_____	_____	_____	Problematic Hydrophytic Vegetation (Explain) ¹
7. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present.
8. _____	_____	_____	_____	Hydrophytic Vegetation Present?
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
40% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. <u>Hedera helix</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Solanum dulcamara</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	
15% = Total Cover				
% Bare Ground in Herb Stratum <u>60%</u>				

Remarks:
 Bare ground covered by leaf litter. Plot is located southeast of beaver dam, within a wetland floodplain. Several snags are in the wetland, no living trees.

SOIL	Sampling Point: 14
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):								
Depth (inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-12	10YR 3/2	80	7.5YR 4/6	20	C	M	SiCL	
12-16	10YR 3/2	80	5YR 4/4	20	C	M	SiCL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> 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 <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Frost-Heave Hummocks (D7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No _____
Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): 4"	
Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): Surface (includes capillary fringe)	

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

Remarks:

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

Project/Site: Springbrook Hess Creek City/County: Newberg/Yamhill Sampling Date: 11/18/2020
 Applicant/Owner: Springbrook Properties, Inc. State: OR Sampling Point: 15
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T.3S., R.2W., W.M.
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Convex Slope (%): <5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.319053 Long: -122.96120206 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310F), 20% to 55% slopes; Non-hydric NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the NWS McMinnville weather station, 1.35 inches of rainfall was received on the day of the site visit and 3.78 inches within the two weeks prior.

Remarks:
 Plot is approximately 6 inches higher in elevation than Plot 15.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Pseudotsuga menziesii</u>	10%	Yes	FACU		Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. <u>Alnus rubra</u>	5%	No	FAC	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25%</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:	
15% = Total Cover					Total % Cover of: _____ Multiply by: _____
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				OBL species <u>0</u> x 1 = <u>0</u>	
1. <u>Rubus armeniacus</u>	40%	Yes	FAC	FACW species <u>0</u> x 2 = <u>0</u>	
2. <u>Rubus leucodermis</u>	10%	Yes	FACU	FAC species <u>61</u> x 3 = <u>183</u>	
3. _____	_____	_____	_____	FACU species <u>75</u> x 4 = <u>300</u>	
4. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>	
5. _____	_____	_____	_____	Column Totals: <u>136</u> (A) <u>483</u> (B)	
50% = Total Cover				Prevalence Index = B/A = <u>3.55</u>	
Herb Stratum (Plot Size: 5' r or _____)				Hydrophytic Vegetation Indicators:	
1. <u>Urtica dioica</u>	1%	No	FAC		1 - Rapid Test for Hydrophytic Vegetation
2. _____	_____	_____	_____		2 - Dominance Test is >50%
3. _____	_____	_____	_____		3 - Prevalence Index is ≤3.0 ¹
4. _____	_____	_____	_____		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____		5 - Wetland Non-Vascular Plants ¹
6. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) ¹
7. _____	_____	_____	_____		¹ Indicators of hydric soil and wetland hydrology must be present.
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
1% = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)					
1. <u>Hedera helix</u>	65%	Yes	FACU	Hydrophytic Vegetation Present?	
2. <u>Solanum dulcamara</u>	15%	No	FAC		Yes _____ No <u>X</u>
80% = Total Cover					
% Bare Ground in Herb Stratum	<u>99%</u>				

Remarks:

SOIL	Sampling Point: 15
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-13	10YR 3/2	98	7.5YR 4/4	2	C	M	SiL	
13-16	10YR 3/2	85	7.5YR 4/6	15	C	M	SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

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

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

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

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

Restrictive Layer (if present):

Hydric Soil

Present? Yes No

Type: _____
Depth (inches): _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

Secondary Indicators (2 or more required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

Surface Water Present? Yes No Depth (inches): _____
 Water Table Present? Yes No Depth (inches): 16"
 Saturation Present? Yes No Depth (inches): 15.5"
 (includes capillary fringe)

Wetland

Hydrology Present? Yes No

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

Remarks:

Soils slightly moist from 0 to 13 inches.

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

Project/Site: Springbrook Hess Creek City/County: Newberg/Yamhill Sampling Date: 11/18/2020
 Applicant/Owner: Springbrook Properties, Inc. State: OR Sampling Point: 16
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T.3S., R.2W., W.M.
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.318817 Long: -122.96138946 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310F), 20% to 55% slopes; Non-hydric NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes <u>X</u>	No _____
Hydric Soil Present?	Yes <u>X</u>	No _____			
Wetland Hydrology Present?	Yes <u>X</u>	No _____			

Precipitation:
 According to the NWS McMinnville weather station, 1.35 inches of rainfall was received on the day of the site visit and 3.78 inches within the two weeks prior.

Remarks:
 Plot is approximately 15 feet east of Hess Creek OHWM.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>65</u> x 2 = <u>130</u>
1. <u>Rubus armeniacus</u>	<u>15%</u>	<u>Yes</u>	<u>FAC</u>	FAC species <u>40</u> x 3 = <u>120</u>
2. _____	_____	_____	_____	FACU species <u>10</u> x 4 = <u>40</u>
3. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>
4. _____	_____	_____	_____	Column Totals: <u>115</u> (A) <u>290</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.52</u>
15% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Phalaris arundinacea</u>	<u>65%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Urtica dioica</u>	<u>25%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Galium aparine</u>	<u>10%</u>	<u>No</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
100% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>0%</u>				

Remarks:
 Snags in wetland, no live trees.

SOIL	Sampling Point: 16
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/2	80	7.5YR 4/6	20	C	M/PL	SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

<p>Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):</p> <p><input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)</p>	<p>Indicators for Problematic Hydric Soils³:</p> <p><input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)</p> <p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>
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<p>Restrictive Layer (if present): Type: _____ Depth (inches): _____</p>	<p>Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____</p>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<p><u>Primary Indicators (minimum of one required; check all that apply)</u></p> <p><input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</p>	<p><u>Secondary Indicators (2 or more required)</u></p> <p><input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)</p>

<p>Field Observations:</p> <p>Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): 14" Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): 12" (includes capillary fringe)</p>	<p>Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____</p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Plot was left open approximately 20 minutes.

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

Project/Site: Springbrook Hess Creek City/County: Newberg/Yamhill Sampling Date: 11/18/2020
 Applicant/Owner: Springbrook Properties, Inc. State: OR Sampling Point: 17
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T.3S., R.2W., W.M.
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): <5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.318805 Long: -122.96131246 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310F), 20% to 55% slopes; Non-hydric NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the NWS McMinnville weather station, 1.35 inches of rainfall was received on the day of the site visit and 3.78 inches within the two weeks prior.

Remarks:

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Pseudotsuga menziesii</u>	<u>60%</u>	<u>Yes</u>	<u>FACU</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)	
3. _____	_____	_____	_____		
4. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)	
60% = Total Cover					
Sapling/Shrub Stratum (Plot Size: 10' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Prevalence Index worksheet:	
1. <u>Rubus armeniacus</u>	<u>40%</u>	<u>Yes</u>	<u>FAC</u>		Total % Cover of: _____ Multiply by: _____
2. <u>Rubus leucodermis</u>	<u>20%</u>	<u>Yes</u>	<u>FACU</u>	OBL species <u>0</u> x 1 = <u>0</u>	
3. _____	_____	_____	_____	FACW species <u>0</u> x 2 = <u>0</u>	
4. _____	_____	_____	_____	FAC species <u>45</u> x 3 = <u>135</u>	
5. _____	_____	_____	_____	FACU species <u>20</u> x 4 = <u>80</u>	
60% = Total Cover				UPL species <u>0</u> x 5 = <u>0</u>	
				Column Totals: <u>65</u> (A) <u>215</u> (B)	
				Prevalence Index = B/A = <u>3.31</u>	
Herb Stratum (Plot Size: 5' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:	
1. <u>Urtica dioica</u>	<u>5%</u>	<u>Yes</u>	<u>FAC</u>		1 - Rapid Test for Hydrophytic Vegetation
2. _____	_____	_____	_____		2 - Dominance Test is >50%
3. _____	_____	_____	_____		3 - Prevalence Index is ≤3.0 ¹
4. _____	_____	_____	_____		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____		5 - Wetland Non-Vascular Plants ¹
6. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) ¹
7. _____	_____	_____	_____		¹ Indicators of hydric soil and wetland hydrology must be present.
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
5% = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status		
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum <u>95%</u>				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	

Remarks:
 Area was recently cleared of brush. Estimate percent cover of living shrub stems.

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	10YR 3/2	100					SiCL	
14-16	10YR 3/2	95	7.5YR 4/4	5	C	M/PL	SiCL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No X _____
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations: Surface Water Present? Yes _____ No X _____ Depth (inches): _____ Water Table Present? Yes _____ No X _____ Depth (inches): <u>>16"</u> Saturation Present? Yes _____ No X _____ Depth (inches): <u>>16"</u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No X _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Soils slightly moist throughout.

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

Project/Site: Springbrook Hess Creek City/County: Newberg/Yamhill Sampling Date: 11/18/2020
 Applicant/Owner: Springbrook Properties, Inc. State: OR Sampling Point: 18
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T.3S., R.2W., W.M.
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.318859 Long: -122.96150205 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310F), 20% to 55% slopes; Non-hydric NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	

Precipitation:
 According to the NWS McMinnville weather station, 1.35 inches of rainfall was received on the day of the site visit and 3.78 inches within the two weeks prior.

Remarks:
 Plot is approximately 3 feet higher than streambed.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>20</u> x 2 = <u>40</u> FAC species <u>50</u> x 3 = <u>150</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>70</u> (A) <u>190</u> (B) Prevalence Index = B/A = <u>2.71</u>
0% = Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				
1. <u>Rubus armeniacus</u>	<u>25%</u>	<u>Yes</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
25% = Total Cover				
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Phalaris arundinacea</u>	<u>20%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Urtica dioica</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>	
3. <u>Solanum dulcamara</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
45% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>55%</u>				

Remarks:

SOIL	Sampling Point: 18
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 3/2	100					SiCL	
7-8	10YR 3/2	100					SL	
8-16	10YR 3/2	90	7.5YR 3/4	10	C	M	SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

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

Indicators for Problematic Hydric Soils³:

- | | |
|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Sandy Redox (S5) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Stripped Matrix (S6) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |

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

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

Restrictive Layer (if present):

Hydric Soil

Present? Yes No

Type: _____
 Depth (inches): _____

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

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

Secondary Indicators (2 or more required)

- | | | |
|--|---|--|
| <input type="checkbox"/> Surface Water (A1) | <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) | <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) |
| <input type="checkbox"/> High Water Table (A2) | <input type="checkbox"/> Salt Crust (B11) | <input type="checkbox"/> Drainage Patterns (B10) |
| <input checked="" type="checkbox"/> Saturation (A3) | <input type="checkbox"/> Aquatic Invertebrates (B13) | <input type="checkbox"/> Dry-Season Water Table (C2) |
| <input type="checkbox"/> Water Marks (B1) | <input type="checkbox"/> Hydrogen Sulfide Odor (C1) | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) |
| <input type="checkbox"/> Sediment Deposits (B2) | <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) | <input type="checkbox"/> Geomorphic Position (D2) |
| <input type="checkbox"/> Drift Deposits (B3) | <input type="checkbox"/> Presence of Reduced Iron (C4) | <input type="checkbox"/> Shallow Aquitard (D3) |
| <input type="checkbox"/> Algal Mat or Crust (B4) | <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) | <input type="checkbox"/> FAC-Neutral Test (D5) |
| <input type="checkbox"/> Iron Deposits (B5) | <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) | <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) |
| <input type="checkbox"/> Surface Soil Cracks (B6) | <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Frost-Heave Hummocks (D7) |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | | |
| <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) | | |

Field Observations:

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

Wetland Hydrology Present? Yes No _____

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

Remarks:

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

Project/Site: Springbrook Hess Creek City/County: Newberg/Yamhill Sampling Date: 11/18/2020
 Applicant/Owner: Springbrook Properties, Inc. State: OR Sampling Point: 19
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T.3S., R.2W., W.M.
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): <5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.318854 Long: -122.96157351 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310F), 20% to 55% slopes; Non-hydric NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the NWS McMinnville weather station, 1.35 inches of rainfall was received on the day of the site visit and 3.78 inches within the two weeks prior.

Remarks:
 Plot is approximately 1 foot higher than Plot 18.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. _____	20%	Yes	FACU		Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)	
4. _____	_____	_____	_____	Prevalence Index worksheet:	
20% = Total Cover					Total % Cover of: _____ Multiply by: _____
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				OBL species <u>0</u> x 1 = <u>0</u>	
1. <u>Rubus armeniacus</u>	40%	Yes	FAC	FACW species <u>5</u> x 2 = <u>10</u>	
2. _____	_____	_____	_____	FAC species <u>40</u> x 3 = <u>120</u>	
3. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>	
4. _____	_____	_____	_____	UPL species <u>0</u> x 5 = <u>0</u>	
5. _____	_____	_____	_____	Column Totals: <u>45</u> (A) <u>130</u> (B)	
40% = Total Cover				Prevalence Index = B/A = <u>2.89</u>	
Herb Stratum (Plot Size: 5' r or _____)				Hydrophytic Vegetation Indicators:	
1. <u>Phalaris arundinacea</u>	5%	Yes	FACW		<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
2. _____	_____	_____	_____		<input checked="" type="checkbox"/> 2 - Dominance Test is >50%
3. _____	_____	_____	_____		<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹
4. _____	_____	_____	_____		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____		5 - Wetland Non-Vascular Plants ¹
6. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) ¹
7. _____	_____	_____	_____		¹ Indicators of hydric soil and wetland hydrology must be present.
8. _____	_____	_____	_____		
9. _____	_____	_____	_____		
10. _____	_____	_____	_____		
11. _____	_____	_____	_____		
5% = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)					
1. _____	_____	_____	_____		
2. _____	_____	_____	_____		
0% = Total Cover					
% Bare Ground in Herb Stratum	<u>95%</u>			Hydrophytic Vegetation Present? Yes <u>X</u> No _____	

Remarks:

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	10YR 3/2	100					SiCL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>	

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No X
Depth (inches): _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:			Wetland Hydrology Present?
Surface Water Present?	Yes _____ No X	Depth (inches): _____	
Water Table Present?	Yes _____ No X	Depth (inches): <u>>14"</u>	
Saturation Present? (includes capillary fringe)	Yes _____ No X	Depth (inches): <u>>14"</u>	

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

Remarks:
Soils moist throughout

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

Project/Site: Collina at Springbrook City/County: Newberg/ Yamhill County Sampling Date: 8/19/2022
 Applicant/Owner: Pahlisch Homes, Inc State: Oregon Sampling Point: 20
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T3S, R2W
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.31850136 Long: -122.96117955 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310F), 20% to 55% slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	

Precipitation:
 According to the AgACIS McMinnville Municipal AP weather station, 0.00 inches of rainfall was received on the day of the site visit and 0.04 inches within the two weeks prior.

Remarks:

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>60</u> x 1 = <u>60</u> FACW species <u>5</u> x 2 = <u>10</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>65</u> (A) <u>70</u> (B) Prevalence Index = B/A = <u>1.08</u>
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
0% = Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
0% = Total Cover				
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Oenanthе sарmentosa</u>	<u>40%</u>	<u>Yes</u>	<u>OBL</u>	
2. <u>Veronica americana</u>	<u>15%</u>	<u>Yes</u>	<u>OBL</u>	
3. <u>Callitriche stagnalis</u>	<u>5%</u>	<u>No</u>	<u>OBL</u>	
4. <u>Phalaris arundinacea</u>	<u>5%</u>	<u>No</u>	<u>FACW</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
65% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>35%</u>				

Hydrophytic Vegetation Indicators:
 _____ 1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
X 3 - Prevalence Index is ≤3.0¹
 _____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 _____ 5 - Wetland Non-Vascular Plants¹
 _____ Problematic Hydrophytic Vegetation (Explain)¹
¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):								
Depth (inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-18	10YR 2/1	100					SiL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input checked="" type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input checked="" type="checkbox"/> Other (Explain in Remarks)
³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Depth (inches): _____	

Remarks:
 The wetland is a recently developed wetland, which is considered problematic because it has not been in place long enough to develop hydric soil indicators.

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Frost-Heave Hummocks (D7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): 8"	
Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): Surface (includes capillary fringe)	

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

Remarks:
 Plot 1 located approximately 1 foot from an area with 3" deep ponded surface area.

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

Project/Site: Collina at Springbrook City/County: Newberg/ Yamhill County Sampling Date: 8/19/2022
 Applicant/Owner: Pahlisch Homes, Inc State: Oregon Sampling Point: 21
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T3S, R2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave Slope (%): <10
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.31848753 Long: -122.96114747 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310F), 20% to 55% slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the AgACIS McMinnville Municipal AP weather station, 0.00 inches of rainfall was received on the day of the site visit and 0.04 inches within the two weeks prior.

Remarks:
 Plot located approximately 3 feet higher in elevation than Plot 20.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
1. <u>Acer macrophyllum</u>	<u>20%</u>	<u>Yes</u>	<u>FACU</u>	
2. <u>Pseudotsuga menziesii</u>	<u>15%</u>	<u>Yes</u>	<u>FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>35%</u> = Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Rubus armeniacus</u>	<u>80%</u>	<u>Yes</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>80%</u> = Total Cover				
Herb Stratum (Plot Size: 5' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
<u>0%</u> = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
<u>0%</u> = Total Cover				
% Bare Ground in Herb Stratum <u>100%</u>				

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 2 - Dominance Test is >50%
 3 - Prevalence Index is ≤3.0¹
 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 5 - Wetland Non-Vascular Plants¹
 Problematic Hydrophytic Vegetation (Explain)¹
¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:

SOIL	Sampling Point: 21
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	10YR 3/2	100					SIL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>	

Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u> X </u>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:	Wetland Hydrology Present? Yes _____ No <u> X </u>
Surface Water Present? Yes _____ No <u> X </u> Depth (inches): _____	
Water Table Present? Yes _____ No <u> X </u> Depth (inches): <u> >14" </u>	
Saturation Present? Yes _____ No <u> X </u> Depth (inches): <u> >14" </u> (includes capillary fringe)	

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

Remarks:
Soils were very dry throughout soil pit.

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

Project/Site: Collina at Springbrook City/County: Newberg/ Yamhill County Sampling Date: 8/19/2022
 Applicant/Owner: Pahlisch Homes, Inc State: Oregon Sampling Point: 22
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T3S, R2W
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.31815340 Long: -122.96138232 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310D), 12% to 20% slopes; Non-Hydric NWI classification: PFO1C
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	

Precipitation:
 According to the AgACIS McMinnville Municipal AP weather station, 0.00 inches of rainfall was received on the day of the site visit and 0.04 inches within the two weeks prior.

Remarks:

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Fraxinus latifolia</u>	1%	No	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
1% = Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>Rubus armeniacus</u>	2%	No	FAC	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>101</u> x 2 = <u>202</u> FAC species <u>4</u> x 3 = <u>12</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>105</u> (A) <u>214</u> (B) Prevalence Index = B/A = <u>2.04</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
2% = Total Cover				
Herb Stratum (Plot Size: 5' r or _____)				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Phalaris arundinacea</u>	100%	Yes	FACW	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
100% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. <u>Solanum dulcamara</u>	2%	No	FAC	
2. _____	_____	_____	_____	
2% = Total Cover				
% Bare Ground in Herb Stratum <u>0%</u>				

Remarks:

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

Project/Site: Collina at Springbrook City/County: Newberg/ Yamhill County Sampling Date: 8/19/2022
 Applicant/Owner: Pahlisch Homes, Inc State: Oregon Sampling Point: 23
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T3S, R2W
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): <5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.31813653 Long: -122.96130803 Datum: _____
 Soil Map Unit Name: Unit 2310D - Woodburn silt loam, 12% to 20% slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the AgACIS McMinnville Municipal AP weather station, 0.00 inches of rainfall was received on the day of the site visit and 0.04 inches within the two weeks prior.

Remarks:
 Plot located approximately 6 inches higher than plot 22.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet:
5. _____	_____	_____	_____	
0% = Total Cover				OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				FACW species <u>95</u> x 2 = <u>190</u>
1. <u>Rubus armeniacus</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>	FAC species <u>5</u> x 3 = <u>15</u>
2. _____	_____	_____	_____	FACU species <u>0</u> x 4 = <u>0</u>
3. _____	_____	_____	_____	UPL species <u>2</u> x 5 = <u>10</u>
4. _____	_____	_____	_____	Column Totals: <u>102</u> (A) <u>215</u> (B)
5. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.11</u>
2% = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Phalaris arundinacea</u>	<u>95%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Convolvulus arvensis</u>	<u>2%</u>	<u>No</u>	<u>NOL</u>	
3. <u>Cirsium arvense</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>	
4. <u>Rumex crispus</u>	<u>1%</u>	<u>No</u>	<u>FAC</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
100% = Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>0%</u>				

Remarks:

SOIL	Sampling Point: 23
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/2	100					SiL	
6-14	10YR 3/2	98	7.5YR 3/4	2	C	PL	SiL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes _____ No <u> X </u>
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (2 or more required)</u> <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)
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Field Observations: Surface Water Present? Yes _____ No <u> X </u> Depth (inches): _____ Water Table Present? Yes _____ No <u> X </u> Depth (inches): <u> >14" </u> Saturation Present? Yes _____ No <u> X </u> Depth (inches): <u> >14" </u> (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <u> X </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:
Soils were dry throughout soil pit.

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

Project/Site: Collina at Springbrook City/County: Newberg/ Yamhill County Sampling Date: 8/19/2022
 Applicant/Owner: Pahlisch Homes, Inc State: Oregon Sampling Point: 24
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T3S, R2W
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): <5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.31828428 Long: -122.96166852 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310D), 12% to 20% slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the AgACIS McMinnville Municipal AP weather station, 0.00 inches of rainfall was received on the day of the site visit and 0.04 inches within the two weeks prior.

Remarks:
 Plot located in WD2014-0016 mapped Wetland L1.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Fraxinus latifolia</u>	1%	No	FACW	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
1% = Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1. <u>Rubus armeniacus</u>	5%	Yes	FAC	
2. _____	_____	_____	_____	Prevalence Index worksheet:
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
5% = Total Cover				
Herb Stratum (Plot Size: 5' r or _____)				Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>97</u> x 2 = <u>194</u> FAC species <u>7</u> x 3 = <u>21</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>114</u> (A) <u>255</u> (B) Prevalence Index = B/A = <u>2.24</u>
1. <u>Phalaris arundinacea</u>	95%	Yes	FACW	
2. <u>Jacobaea vulgaris</u>	10%	No	FACU	
3. <u>Epilobium ciliatum</u>	1%	No	FACW	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
106% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Solanum dulcamara</u>	2%	No	FAC	
2. _____	_____	_____	_____	
2% = Total Cover				
% Bare Ground in Herb Stratum	<u>0%</u>			Hydrophytic Vegetation Present? Yes <u>X</u> No _____

Remarks:

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/2	100					SIL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>	

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No <u> X </u>
Depth (inches): _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:	Wetland Hydrology Present?
Surface Water Present? Yes _____ No <u> X </u> Depth (inches): _____	Yes _____ No <u> X </u>
Water Table Present? Yes _____ No <u> X </u> Depth (inches): <u>>16"</u>	
Saturation Present? Yes _____ No <u> X </u> Depth (inches): <u>>16"</u> (includes capillary fringe)	

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

Remarks:
Soils were slightly moist throughout soil pit.

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

Project/Site: Collina at Springbrook City/County: Newberg/ Yamhill County Sampling Date: 8/19/2022
 Applicant/Owner: Pahlisch Homes, Inc State: Oregon Sampling Point: 25
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T3S, R2W
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.31792740 Long: -122.96141825 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310D), 12% to 20% slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the AgACIS McMinnville Municipal AP weather station, 0.00 inches of rainfall was received on the day of the site visit and 0.04 inches within the two weeks prior.

Remarks:
 Plot located approximately 2 feet higher in elevation than water level of Hess Creek

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Fraxinus latifolia</u>	<u>5%</u>	<u>Yes</u>	<u>FACW</u>	
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5% = Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>75%</u> (A/B)
1. <u>Rubus armeniacus</u>	<u>50%</u>	<u>Yes</u>	<u>FAC</u>	
2. <u>Sambucus nigra</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>15</u> x 2 = <u>30</u> FAC species <u>62</u> x 3 = <u>186</u> FACU species <u>17</u> x 4 = <u>68</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>94</u> (A) <u>284</u> (B) Prevalence Index = B/A = <u>3.02</u>
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
55% = Total Cover				
Herb Stratum (Plot Size: 5' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation (Explain) ¹ ¹ Indicators of hydric soil and wetland hydrology must be present.
1. <u>Phalaris arundinacea</u>	<u>10%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Daucus carota</u>	<u>8%</u>	<u>Yes</u>	<u>FACU</u>	
3. <u>Jacobaea vulgaris</u>	<u>5%</u>	<u>No</u>	<u>FACU</u>	
4. <u>Panicum capillare</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>	
5. <u>Echinochloa crus-galli</u>	<u>4%</u>	<u>No</u>	<u>FAC</u>	
6. <u>Digitaria sanguinalis</u>	<u>4%</u>	<u>No</u>	<u>FACU</u>	
7. <u>Kickxia elatine</u>	<u>1%</u>	<u>No</u>	<u>FAC</u>	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
34% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present? Yes <u>X</u> No _____
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
0% = Total Cover				
% Bare Ground in Herb Stratum <u>66%</u>				

Remarks:

SOIL	Sampling Point: 25
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/2	49	7.5YR 3/4	1	C	M	SIL	Mixed matrix
	10YR 3/1	50					SIL	
6-16	10YR 3/2	30					SIL	Mixed matrix
	10YR 3/1	70					SIL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)

³Indicators 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 <u> X </u>
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Remarks:
Charcoal and large roots present throughout.

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Frost-Heave Hummocks (D7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:	Wetland Hydrology Present? Yes _____ No <u> X </u>
Surface Water Present? Yes _____ No <u> X </u> Depth (inches): _____	
Water Table Present? Yes _____ No <u> X </u> Depth (inches): <u> >16" </u>	
Saturation Present? Yes _____ No <u> X </u> Depth (inches): <u> >16" </u> (includes capillary fringe)	

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

Remarks:
Soils were slightly moist throughout soil pit.

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

Project/Site: Collina at Springbrook City/County: Newberg/ Yamhill County Sampling Date: 8/19/2022
 Applicant/Owner: Pahlisch Homes, Inc State: Oregon Sampling Point: 26
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T3S, R2W
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): Concave Slope (%): <3
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.31774377 Long: -122.96142116 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310D), 12% to 20% slopes; Non-Hydric NWI classification: PFO1C
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	

Precipitation:
 According to the AgACIS McMinnville Municipal AP weather station, 0.00 inches of rainfall was received on the day of the site visit and 0.04 inches within the two weeks prior.

Remarks:
 Located approximately 5 feet away from Hess Creek.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
4. _____	_____	_____	_____	Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>100</u> x 2 = <u>200</u> FAC species <u>3</u> x 3 = <u>9</u> FACU species <u>2</u> x 4 = <u>8</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>105</u> (A) <u>217</u> (B) Prevalence Index = B/A = <u>2.07</u>
0% = Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or _____)				
1. <u>Rubus armeniacus</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
2% = Total Cover				
Herb Stratum (Plot Size: 5' r or _____)				
1. <u>Glyceria elata</u>	<u>95%</u>	<u>Yes</u>	<u>FACW</u>	
2. <u>Epilobium ciliatum</u>	<u>5%</u>	<u>No</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
100% = Total Cover				
Woody Vine Stratum (Plot Size: 10' r or _____)				
1. <u>English ivy</u>	<u>2%</u>	<u>No</u>	<u>FACU</u>	
2. <u>Solanum dulcamara</u>	<u>1%</u>	<u>No</u>	<u>FAC</u>	
3% = Total Cover				
% Bare Ground in Herb Stratum	<u>0%</u>			

Hydrophytic Vegetation Indicators:
 1 - Rapid Test for Hydrophytic Vegetation
 X 2 - Dominance Test is >50%
 X 3 - Prevalence Index is ≤3.0¹
 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 5 - Wetland Non-Vascular Plants¹
 Problematic Hydrophytic Vegetation (Explain)¹
¹Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes X No _____

Remarks:

SOIL	Sampling Point: 26
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Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):								
Depth (inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-4	10YR 3/1	100					SiL	
4-10	10YR 3/1	95	5YR 3/4	5	C	M	SiL	
10-16	10YR 3/1	80	5YR 3/4	20	C	M	SiL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
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Restrictive Layer (if present): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____
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Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (2 or more required) <input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)	

Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): 7" Saturation Present? Yes <input checked="" type="checkbox"/> No _____ Depth (inches): Surface (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Project/Site: Collina at Springbrook City/County: Newberg/ Yamhill County Sampling Date: 8/19/2022
 Applicant/Owner: Pahlisch Homes, Inc State: Oregon Sampling Point: 27
 Investigator(s): Sonya Templeton and Margret Harburg Section, Township, Range: Sec. 8, T3S, R2W
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): <5
 Subregion (LRR): A. Northwest Forests and Coast Lat: 45.31771655 Long: -122.96145979 Datum: _____
 Soil Map Unit Name: Woodburn silt loam (Unit 2310D) , 12% to 20% slopes; Non-Hydric NWI classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____	No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>			
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Precipitation:
 According to the AgACIS McMinnville Municipal AP weather station, 0.00 inches of rainfall was received on the day of the site visit and 0.04 inches within the two weeks prior.

Remarks:
 Plot located approximately 2 feet higher in elevation than plot 26.

VEGETATION

Tree Stratum (Plot Size: 30' r or _____)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <u>Crataegus douglasii</u>	<u>10%</u>	<u>Yes</u>	<u>FAC</u>		Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. <u>Pseudotsuga menziesii</u>	<u>5%</u>	<u>Yes</u>	<u>FACU</u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)	
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40%</u> (A/B)	
4. _____	_____	_____	_____		
<u>15%</u> = Total Cover				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot Size: 10' r or _____)					
1. <u>Rubus armeniacus</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>	Total % Cover of: _____ Multiply by: _____	
2. <u>Mahonia aquifolium</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>	OBL species <u>0</u> x 1 = <u>0</u>	
3. <u>Crataegus monogyna</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	FACW species <u>0</u> x 2 = <u>0</u>	
4. _____	_____	_____	_____	FAC species <u>45</u> x 3 = <u>135</u>	
5. _____	_____	_____	_____	FACU species <u>110</u> x 4 = <u>440</u>	
<u>45%</u> = Total Cover				UPL species <u>0</u> x 5 = <u>0</u>	
Herb Stratum (Plot Size: 5' r or _____)				Column Totals: <u>155</u> (A) <u>575</u> (B)	
1. _____	_____	_____	_____	Prevalence Index = B/A = <u>3.71</u>	
2. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:	
3. _____	_____	_____	_____		1 - Rapid Test for Hydrophytic Vegetation
4. _____	_____	_____	_____		2 - Dominance Test is >50%
5. _____	_____	_____	_____		3 - Prevalence Index is ≤3.0 ¹
6. _____	_____	_____	_____		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
7. _____	_____	_____	_____		5 - Wetland Non-Vascular Plants ¹
8. _____	_____	_____	_____		Problematic Hydrophytic Vegetation (Explain) ¹
9. _____	_____	_____	_____		¹ Indicators of hydric soil and wetland hydrology must be present.
10. _____	_____	_____	_____		Hydrophytic Vegetation Present?
11. _____	_____	_____	_____		
<u>0%</u> = Total Cover					
Woody Vine Stratum (Plot Size: 10' r or _____)					
1. <u>Hedra helix</u>	<u>95%</u>	<u>Yes</u>	<u>FACU</u>		
2. _____	_____	_____	_____		
<u>95%</u> = Total Cover					
% Bare Ground in Herb Stratum <u>100%</u>					

Remarks:

Profile Description (Describe to the depth needed to document the indicator or confirm the absence of indicators):								
Depth (inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-16	10YR 3/2	100					SIL	

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

Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):	Indicators for Problematic Hydric Soils³:
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Loamy Mucky Mineral (F1) (except MLRA 1) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
<p>³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</p>	

Restrictive Layer (if present):	Hydric Soil Present?
Type: _____	Yes _____ No X _____
Depth (inches): _____	

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:	
<u>Primary Indicators (minimum of one required; check all that apply)</u>	<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Stunted or Stressed Plants (D1) (LRR A) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Raised Ant Mounds (D6) (LRR A) <input type="checkbox"/> Frost-Heave Hummocks (D7)

Field Observations:				Wetland Hydrology Present?
Surface Water Present?	Yes _____ No X _____	Depth (inches): _____	Yes _____ No X _____	
Water Table Present?	Yes _____ No X _____	Depth (inches): <u>>16"</u>		
Saturation Present? (includes capillary fringe)	Yes _____ No X _____	Depth (inches): <u>>16"</u>		

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

Remarks:

Appendix C: Site Representative Photographs



Photo A. General Site conditions of Filbert farm. Oriented south.



Photo B. Plots 1, and 12 at WD2014-0016 Wetland P2 showing surface water ponding. Oriented east.



Photo C. Plots 2, and 13 at WD2014-0016 Wetland P1 at roadside inlet. Oriented west.



Photo D. Overview of WD2014-0016 Wetland N at saturated area in concave landform. Oriented north east.



Photo E. Plots 5 and 6 at AKS delineated Wetland N. Oriented south.



Photo F. Plots 10 and 11 at AKS delineated Wetland N. Oriented east.



Photo G. Wetland N plots and boundary, oriented north.



Photo H, south. General site conditions in field area. Oriented northwest.



Photo I. View of Plots 18 and 19 in the vicinity of Plots 16 and 17, Wetland M2 facing west.



Photo J. View of expanded area of Wetland M2 near Plots 14 and 15 facing north.



Photo K. View of recently formed portion of Wetland M3 and Plot 20.



Photo L. View of upland Plot 24.



Photo M. View of Wetland M3.



Photo N. View of Hess Creek from Wetland L2.



Photo O. View east from Plot 3.



Photo P. View north of intermittent Hess Creek West Fork.

Exhibit J: Neighborhood Meeting Information

September 7, 2022



RE: NEIGHBORHOOD MEETING NOTICE
Land Use Application for a Subdivision and Master Plan Amendment

Dear Property Owner/Neighbor:

AKS Engineering & Forestry, LLC is holding a neighborhood meeting on behalf of Pahlisch Homes, Inc. regarding a ±99-acre site located within the Springbrook District (Yamhill County Assessor's Map 3 2 08 Tax Lots 04900, 05000, 05100, 05200, 05300, 05400, 06200, 06300, and 06400 and Map 3 2 18 Tax Lot 00800 and 00900). The enclosed map shows the location of the project site west of Hess Creek, east of Aldersgate Drive, and north of E Mountainview Drive. The project involves an amendment to the adopted Springbrook Master Plan for the land west of Hess Creek, a zone change at the corner of N College Street & E Mountainview Drive, a subdivision application, and a Stream Corridor application. The site is zoned Springbrook District and is currently designated for single-family homes, commercial, and mid-rise residential.

You are invited to attend the meeting on:
September 21, 2022, at 6:30 PM
Joan Austin Elementary School Cafeteria
2200 N Center Street, Newberg, OR

A Neighborhood Meeting will be held on Sept. 21, 2022, to inform the community about our proposed project. Interested community members are invited to attend this meeting. The purpose of this meeting is to provide a forum for the applicant and surrounding property owners/neighbors to review the proposal and to identify issues so that they may be considered before a land use application is submitted to the City of Newberg. This meeting gives you the opportunity to share with us any special information you know about the property involved. We will attempt to answer questions which may be relevant to meeting development standards consistent with the Newberg Municipal Code.

I look forward to discussing this project with you. If you have questions but will be unable to attend, please feel free to call me at 503-563-6151.

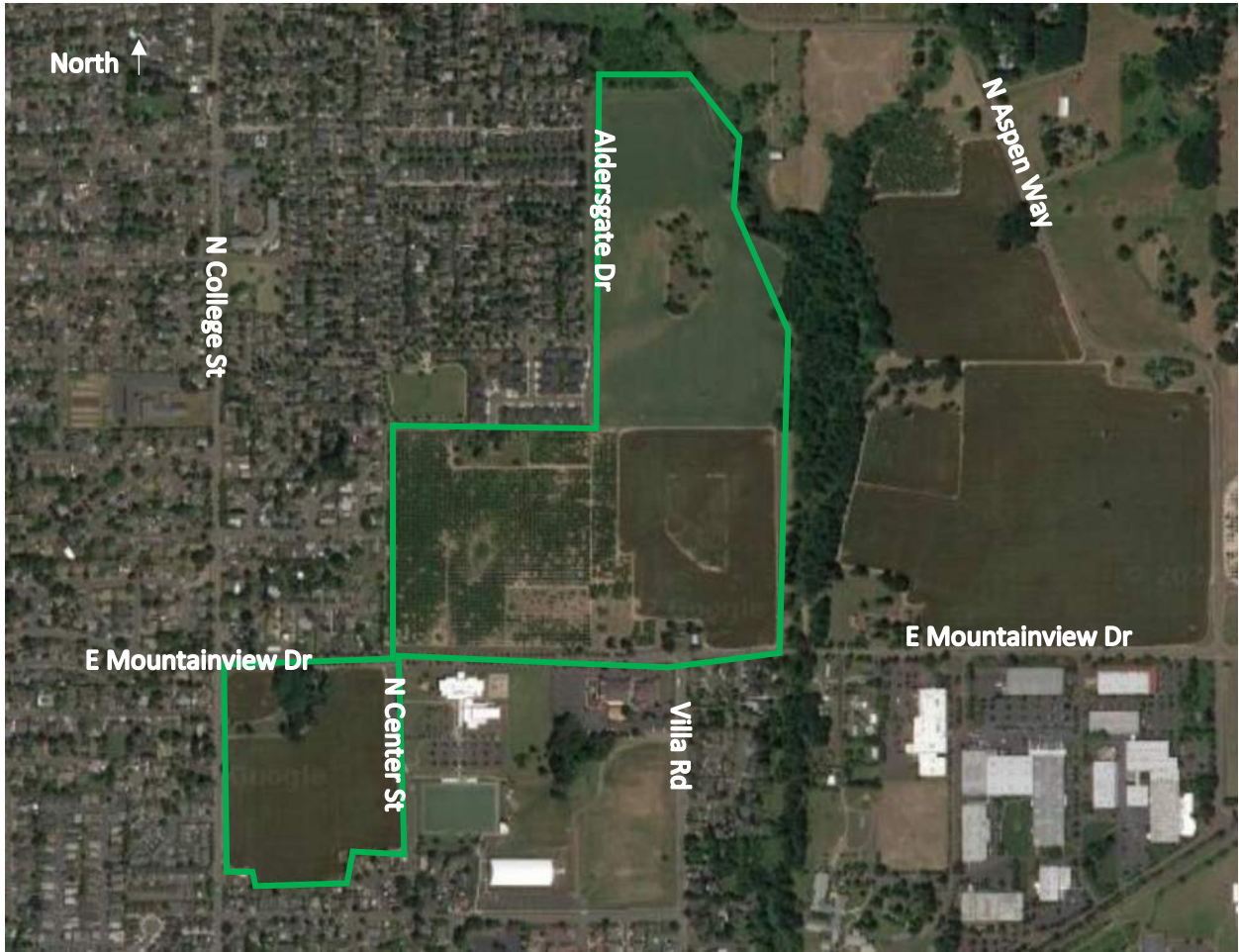
Sincerely,

AKS ENGINEERING & FORESTRY, LLC

A handwritten signature in black ink, appearing to read 'G. Southerland', written over a light blue horizontal line.

Glen Southerland, AICP
12965 SW Herman Road, Suite 100
Tualatin, OR 97062
503-563-6151 | SoutherlandG@aks-eng.com

Vicinity Map

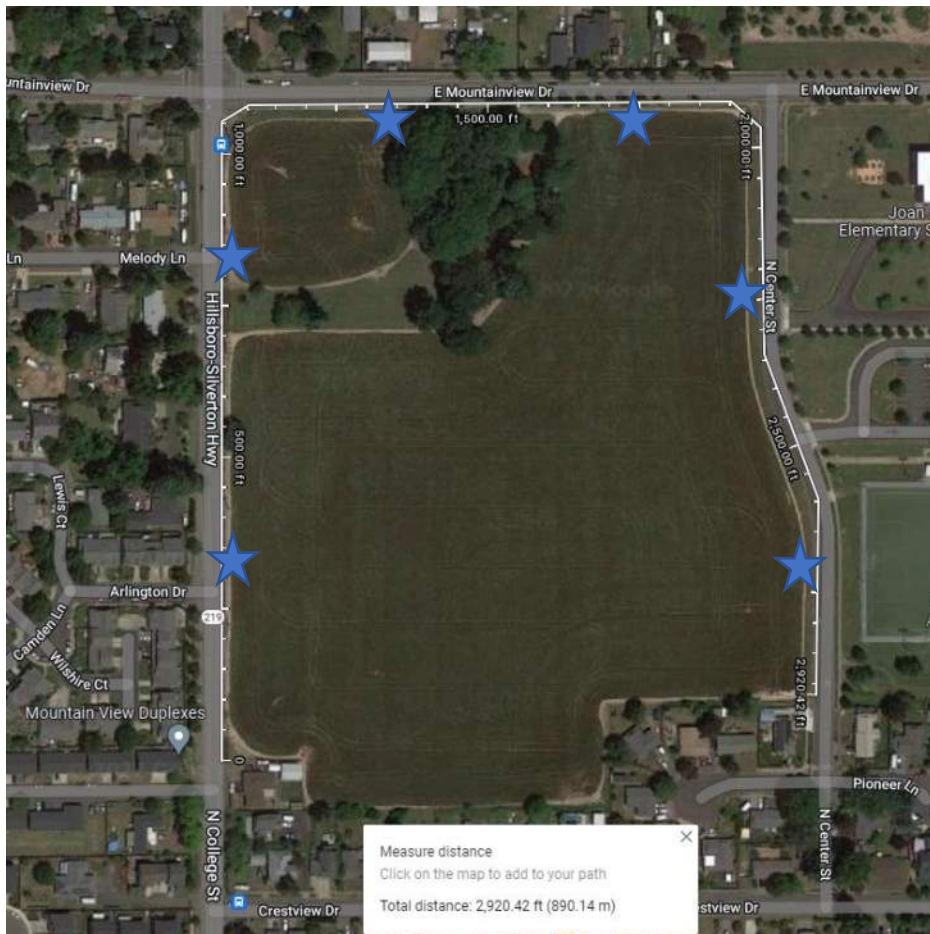


Signs (19) posted no greater than 600 feet apart.

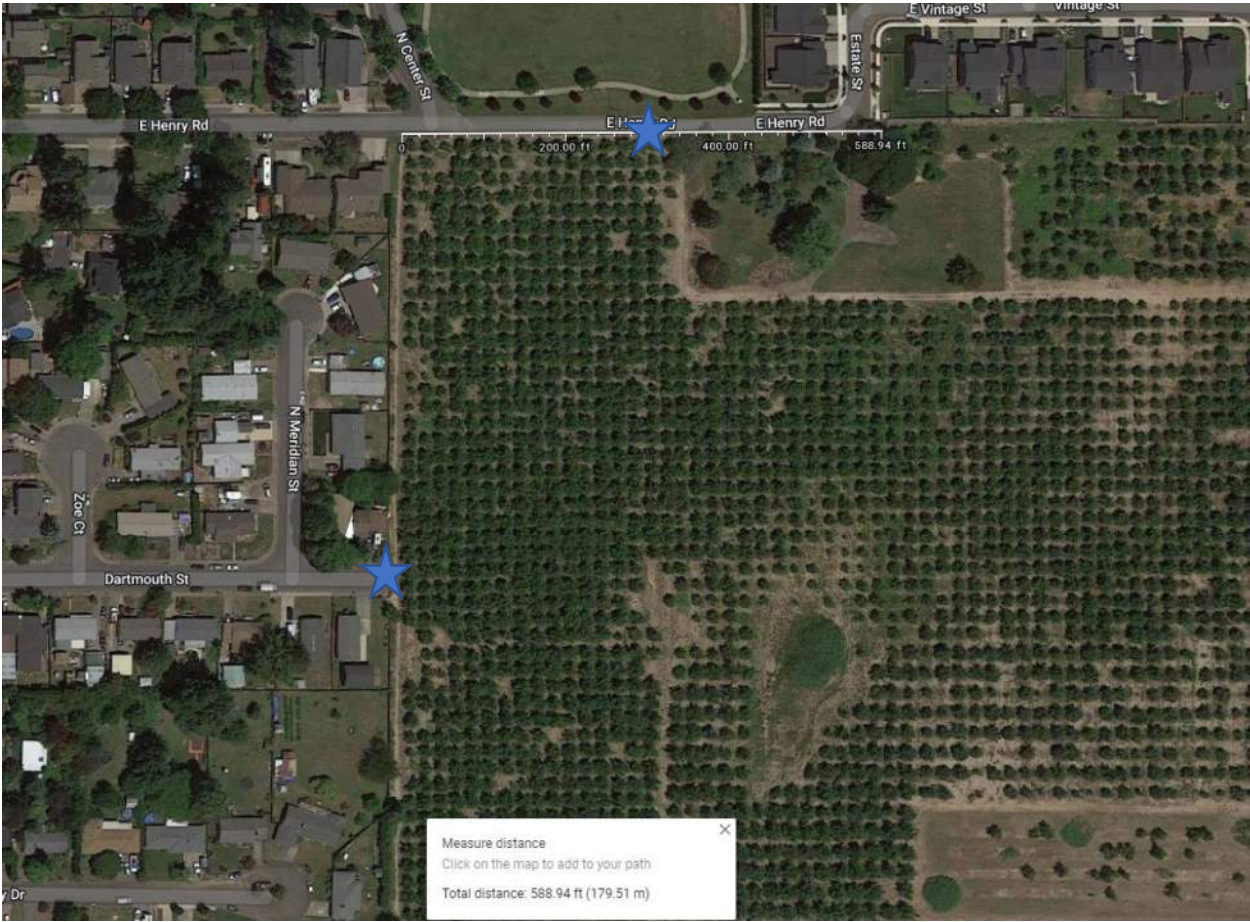
Mountainview Drive



N College Street to N Center Street



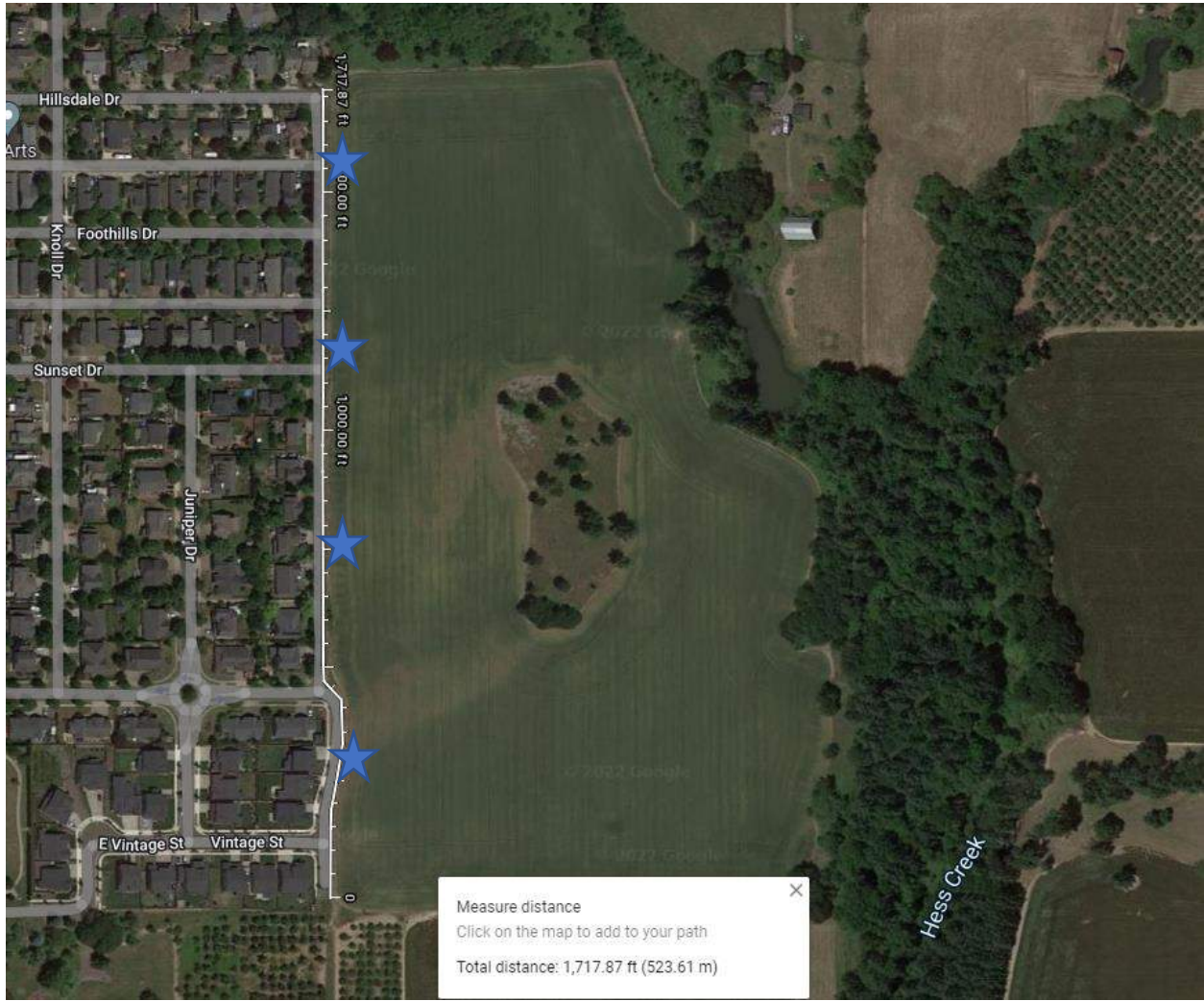
Dartmouth Street & E Henry Road



N Aspen Way



Aldersgate Drive



Neighborhood Meeting Collina at Springbrook

SEPTEMBER 21, 2022 at 6:30 PM

**Joan Austin Elementary School Cafeteria
2200 N Center Street**

Interested persons are invited to attend to discuss an amendment to the Springbrook Master Plan west of Hess Creek and a subdivision.

FOR FURTHER INFORMATION, CONTACT:

**AKS Engineering & Forestry, LLC
Glen Southerland, AICP**

Phone: 503-563-6151 | Email: southerlandg@aks-eng.com