7. Critical Areas

7. Critical Areas

Camas Heights Subdivision Camas, Washington Critical Areas Assessment and Preliminary Mitigation Plan

Date: October 2021

Lennar Northwest, Inc. Prepared for:

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Vancouver, WA 98682

Prepared by: **AKS Engineering & Forestry**

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22630 NE 28th Street Study Area:

Camas, Washington 98607

Clark County Maps, Parcel ID 173157-000

AKS Job Number: 8468



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Introduction

AKS Engineering & Forestry, LLC (AKS) was contracted by the Lennar Homes (Applicant) to conduct a critical areas assessment on ±38.23 acres consisting of parcel 173157-000, located at 22630 NE 28th Street in Camas, Clark County, Washington (Figures 1 and 2 in Appendix A; latitude 45.643233, longitude -122.438436).

Two palustrine emergent (PEM) wetlands (referred to here as Wetlands A and B) were delineated within the study area. Conditions associated with Wetland A extend off site to the west. Wetland B is an isolated wetland; conditions do not extend off site. According to the Washington State Department of Ecology's (ECY) 2014 Washington State Wetland Rating System for Western Washington, Wetlands A and B were both rated as Category IV wetlands, with a habitat score of 5.

The project, referred to as Camas Heights Subdivision, consists of a single-family detached home subdivision. Development will avoid impact to the larger Wetland A and its associated 50-foot wide Category IV High Intensity Land Use buffer, but will require complete fill to isolate Wetland B and the associated high intensity land use wetland buffer in order to accommodate a safe transportation network. This action will require a Wetland Permit from the City of Camas. Total direct permanent wetland impacts are within the thresholds for approval under Nationwide Permit #29 Residential projects. The applicant will obtain a Section 404 nationwide permit authorization from the Seattle District US Army Corps of Engineers (USACE) and a Section 401 Water Quality Certification from (ECY) prior to any work within jurisdictional wetlands. The unavoidable direct wetland impacts will be mitigated for through purchase of wetland mitigation credits from the Terrace Bank, meeting the City's Alternative Wetland Mitigation standards.

Single Oregon white oak trees are scattered on the site. No stands of Oregon white oak greater than 1 acre were observed in the study area, nor were any Oregon white oak snags. According to Section 16.61.010.3.a. of City of Camas Code of Ordinance, several single Oregon white oaks trees meet the City's criteria for habitat of local importance, requiring a Habitat Permit for removal.

Permanent wetland and associated buffer encroachment associated with improvements along NE 28th Street are considered allowed per Section 16.53.050.C.4 of Camas Code. The permanent wetland buffer functions will be replaced through on-site buffer averaging. The permanent wetland impacts will be replaced through purchase of wetland mitigation bank credits. Impacts have been minimized by incorporating curb-tight sidewalks.

This report addresses City of Camas Code of Ordinances (CCC) Chapter 16.53 Wetlands and Chapter 16.61 Fish and Wildlife Habitat Conservation Areas. No other critical areas (Critical Aquifer Recharge Areas, frequently flooded areas, or geologically hazardous areas) are addressed in this report.

A. Site Description and Land Use History

The site is located on a hill that slopes southwesterly towards Wetland A, which was delineated at the toe of the slope. A single-family home and farm outbuildings are present in the northwestern portion of the study area.

The majority of the undeveloped portions of the study area are and have been historically used for agriculture, both grazing and more recently for hay production. The fields were dominated by planted

grasses consisting of non-native field meadow foxtail, tall false rye grass (*Schedonorus arundinaceus*; FAC), bluegrass (*Poa* spp.; Assumed FAC), common velvetgrass (*Holcus lanatus*; FAC), and sweet vernal grass (*Anthoxanthum odoratum*; FACU). The upper-sloped northern hillside was dominated by invasive Himalayan blackberry (*Rubus armeniacus*; FAC). Scattered Oregon white oak (*Quercus garryana*; FACU) and Douglas-fir (*Pseudotsuga menziesii*; FACU) trees are present on a small terrace in the hillside in the northeastern portion of the site. A small cluster of Douglas-fir trees are also present in the northernmost portion of the site.

According to the property owner, the site was historically used as a dairy farm. This land use ceased on site over 10 years ago. Since the dairy farm, the site has been used for both grazing and managed for hay production.

The study area lies within the Lacamas Lake sub-watershed of the Lacamas Creek watershed, located within the Salmon-Washougal Water Resource Inventory Area (WRIA). Conditions associated with Wetland A extend off site to the west, with subsurface flow eventually reaching Lacamas Creek through a series of wetlands.

B. Background Mapping

Soils

According to the Natural Resources Conservation Service (NRCS) Clark County Area Soil Survey Map (Figure 3 in Appendix A), the following soil units are mapped within the study area:

- Dollar Loam, 0 5 percent Slopes (Unit DoB); Non-hydric
- Hesson Clay Loam, 0 8 percent Slopes (Unit HcB); Non-hydric
- Hesson Clay Loam, 8 20 percent Slopes (Unit HcD); Non-hydric
- Hesson Clay Loam, 20 30 percent Slopes (Unit HcE); Non-hydric
- Hockinson Loam, 0 3 percent Slopes (Unit HtA); Hydric

Wetland and Waters Mapping

According to the US Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) Map, no wetlands or waters are mapped in the study area (Figure 4, Appendix A). According to Clark County's MapsOnline portal, no 'modeled and presence wetlands' or 'permitted wetlands' are mapped in the study area (Figure 5, Appendix A). Our study determined that two wetlands were present in the study area.

DNR Mapping

According to Washington State Department of Natural Resources (DNR) mapping, no waters are mapped in or within 300 feet of the study area (Figure 6, Appendix A). No wetlands of high conservation value are mapped within or adjacent to the study area by DNR, nor were these features observed by AKS.

WDFW Priority Habitat and Species Mapping

According to a Washington Department of Fish and Wildlife (WDFW) and a Clark County GIS MapsOnline Priority Habitat and Species (PHS) online query, no priority habitat or species are mapped on the site (Figure 7, Appendix A). AKS did not observe any priority habitat or species during our site visits. No priority habitat snags were observed within the study area. According to the WDFW PHS mapping, "Caves or Cave-Rich Areas" are mapped in the project township, but during our 2021 site visit, no caves were identified on the property. No on-site caves were identified in the applicant's geotechnical report.

C. Wetland Delineation Methodology

Fieldwork was conducted on April 15, 2021, by AKS qualified professionals Stacey Reed, PWS, Senior Wetland Scientist, and Sonya Templeton, Natural Resource Specialist.

The methodology used to determine the presence of wetlands followed the USACE 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 2018 (Lichvar, 2018) was used to assign wetland indicator status for plants for the appropriate region. The USFWS Cowardin classification system (Cowardin et al., 1979) was used to describe wetlands in terms of their vegetation communities (e.g. emergent, scrub-shrub, and forested community types).

Soils, vegetation, and indicators of hydrology were recorded at 19 sample plot locations on standardized wetland determination data forms to document site conditions (Appendix B). Test pits were left open for at least 30 minutes to allow for sufficient time for a groundwater table to equilibrize. Sample plots and the boundaries of the on-site wetlands were flagged in the field and their locations were professionally land surveyed by AKS. A map depicting the surveyed wetland boundaries is included as Figures 8 through 8B. Representative ground-level site photographs are included in Appendix C. References cited and literature used are listed at the end of this report.

D. Precipitation Prior to Site Visit

Observed precipitation data were obtained from the Vancouver, Washington weather station via the National Weather Service (NWS). The closest Climate Analysis for Wetlands Tables (WETS) station to the project site is the Vancouver station. From this report, no rainfall was recorded on the day of the site visit (April 15, 2021), and 0.09 inches were recorded for the two weeks prior to the site visit. Observed water year-to-date (starting October 1, 2020) was 25.46 inches, which was 1.96 inches below normal. Table 1 shows antecedent rainfall according to the WETS Vancouver station for the three months prior to the April 15, 2021 site visit:

Table 1: Precipitation Data

Prior Months	Observed Precipitation (Inches)	Average WETS Precipitation (Inches)	30% Chance Will Have		Condition Dry, Wet, Normal	Condition Value (1=dry, 2=normal,	Month Weight	Multiply Previous Two Columns
		(inches)	Less Than	More Than	Normal	3=wet)		Columnis
Mar-21	1.43	4.37	3.3	5.09	Dry	1	3	3
Feb-21	3.78	4.41	2.99	5.27	Normal	2	2	4
Jan-21	7.49	5.78	3.94	6.89	Wet	3	1	3
	•	1		•		1	Sum	10
								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 Vancouver area was within normal range preceding the site visit; however, dry conditions were observed during the site visit, including the

month prior to the site visit. Therefore, AKS relied heavily on hydric soil indicators when determining wetland conditions. Lack of primary wetland hydrology indicators were not relied upon to determine if the area was wetland. Plots that met hydric soil indicators were determined to be wetland.

E. Delineation Results

Wetlands

Wetland A is a (PEM) wetland located in the southwestern corner of the study area. Wetland conditions appear to extend off site to the west. The hydrology source of Wetland A is supported by a seasonal high groundwater table and upslope subsurface drainage. Generally speaking, water flows through a wetland setting in one direction, on a slope, leaving the wetland without being impounded. The outlet is the lowest elevational portion of the wetland. Therefore, Wetland A belongs to the Slope HGM wetland classification.

Wetland A is located on site within an agricultural field, mainly dominated by invasive reed canary grass (*Phalaris arundinacea*; [FACW]) and planted field meadow-foxtail (*Alopecurus pratensis*; FAC). Vegetation within the wetland is mowed regularly. Less dominant scattered tufts of soft rush (*Juncus effusus*; FACW) was observed in the lower elevation areas of the wetland.

Surface soils documented within Wetland A generally contained a low chroma matrix with distinct/prominent redoximorphic features meeting hydric soil indicator Redox Dark Surface F6. Wetland plots generally lacked primary indicators of wetland hydrology during the April 2021 site visit. Secondary wetland hydrology indicators consisting of FAC-Neutral and geomorphic position (concave depression along slope) were applied at plots meeting hydric soil indicators. Algal matting was observed in the very lowest elevations of the wetland. Wetland plots at the outer edge of Wetland A lacked primary and secondary wetland hydrology indicators. Since these plots met hydric soil indicators, wetland hydrology is assumed present in the early portion of the growing season within a normal rainfall period.

The wetland boundary was delineated based on a subtle change in landform from low-elevation concave wetland to higher elevation hillslope in the upland areas. The change in landform aligned with a change in vegetation from FACW vegetation in the wetland (reed canary grass) to lack of FACW vegetation in the adjacent upland. All adjacent upland plots lacked hydric soil indicators.

Wetland B is an isolated PEM wetland fed by hillside seeps in the eastern portion of the site. Wetland conditions do not extend off site. A groundwater seep was observed discharging into the upper-slope portion of the wetland. An average of approximately 1-inch-deep continuous flow was present within Wetland B during the April 15, 2021 site visit. Water flows through the wetland within a very shallowly defined unvegetated channel, lacking a well-defined bed and bank. We did not observe any inlet or outlet pipes during our site visit. While Wetland B lacks a direct surface hydrologic connection..

Vegetation at Wetland B is dominated by reed canary grass with lesser amounts of western buttercup (Ranunculus occidentalis; FACW) and common rush (Juncus effusus; FACW). The wetland boundary was delineated based on a well-defined change in topography from low elevation concave swale in the wetland areas to higher elevation convex hillslope in the upland portions. The adjacent upland lacked hydric soil and wetland hydrology indicators.

F. Wetland Buffer Widths

The City of Camas requires wetlands to be rated using the methods described in the ECY's *Wetland Rating System for Western Washington, 2014 Update* (Hruby, 2014). Wetland rating forms and supporting figures are provided in Appendix D. Protective wetland buffers were assigned based on habitat scores and proposed land use intensity, per Chapter 16.53.040.B of the CCC.

Flow within Wetlands A and B is unconstrained, moves in one direction, and lacks micro-depressions; these were rated as Slope wetlands. The outlets were the lowest elevational area of each wetland. Both Wetlands A and B were rated as Category IV wetlands. Wetlands A and B lack native vegetation, structural diversity, and special habitat features; therefore, they each had low habitat scores (score of 5). Vegetation within Wetland A is mowed regularly. The seasonal unvegetated stream portion of Wetland B is less than 10 percent of the wetland unit. The project meets the high-intensity land use classification.

Per Table 16.53.040-1, Category IV wetlands adjacent to high-intensity land use require a 50-foot water quality buffer. According to Section 16.53.040.B.2, the water quality buffer is sufficient to protect habitat functions. Figures 8 through 8B illustrate the extent of high intensity land use wetland buffers within the study area.

rable 2. Sammary of reacares beinteacea in the Stady Area							
Wetland ID	Area (acres)	HGM/	Wet	tland Rating Sc	ores	Category	Land Use
		Cowardin Classifications	Water Quality	Hydrologic	Habitat		Intensity, Habitat Buffer Width (feet)
Α	1.77 acres	PEM Slope	6	4	5	IV	High, 50 feet
В	0.15 acres	PEM Slope	6	4	5	IV	High, 50 feet

Table 2: Summary of Features Delineated in the Study Area

G. Oregon White Oaks

Per Chapter 16.61.010.3.a.i, individual Oregon white oak trees with a 20-inch diameter at breast height (DBH) are considered locally important. According to WDFW, single oaks in an urban setting are considered priority if they are particularly valuable to fish and wildlife. To assess an individual tree's value to fish and wildlife, the WDFW criteria include trees with many cavities (>5), trees with large DBH (>20-inch DBH), trees that are used by priority species, or trees that have a large canopy. According to the arborist report, oaks on the site did not have many cavities or a large canopy. No nests were observed in the oaks during AKS' April 2021 site visit. The site is not used by any documented occurrences of priority species, including no evidence of Western gray squirrel use.

The driplines associated with single Oregon white oak trees with greater than 20-inch DBH were delineated by AKS certified arborists. The delineated dripline is shown on attached Figures 8 through 8B.

H. Project Critical Area Impacts

This project consists of a single-family residential subdivision to meet the City of Camas' housing goals. This project will provide affordable homes on lots ranging from 7,000 square feet to 12,000 square feet to provide a diverse array of housing products for City of Camas residents.

Unavoidable fill to Wetland B is necessary to accommodate a layout with safe pedestrian and vehicular travel, while providing housing to meet the City's need for affordable housing. Wetland B is a small

(0.15 acres in size) isolated Category IV wetland, not associated with a fish-bearing stream or shoreline wetland, and it does not contain habitat of local importance. Wetland B provides low overall function. Direct and indirect impacts to Wetland A have been avoided.

The project will require permanent encroachment within the buffer associated with Wetland A for frontage improvements along NE 28th Street.

The sections below illustrate how avoidance is impractical for wetlands, wetland buffers, and Oregon White oaks, how impacts to critical areas have been minimized, and how unavoidable impacts will be mitigated. The site plan figures illustrating critical area impacts are included as Figures 9 through 9A.

Wetland Avoidance Sequencing

There are no practical alternatives to avoid impact to Wetland B. The goal of the project is to provide affordable housing in Camas. Impacts to Wetland B are necessary to provide housing densities consistent with City's Growth Management Act (GMA) and a safe internal transportation network consistent with the City's transportation plan and emergency vehicle standards.

The applicant researched an alternative layout that avoided impact to Wetland B and the associated 50-foot wide protective buffer. This alternative resulted in the loss of ±10 lots and required two cul-desacs. Cul-de-sacs are not preferred by emergency vehicle drivers, as there is not good circular access or easy turn around. A cul-de-sac provides only one way in and one way out, which results in limited response availability. In addition, compared to standard streets, cul-de-sacs have narrower turning radii.

A study conducted by the University of Connecticut indicates that cul-de-sacs have higher rates of traffic accidents involving young children. Small children tend to gather and play in the cul-de-sac dead end areas, thinking it to be a safe area to play. However, due to the configuration of cul-de-sacs, vehicles backing out of driveways onto a cul-de-sac have limited visibility and have inadvertently backed over small children. In addition, cul-de-sacs limit the amount of street parking, making homes on cul-de-sacs undesirable to buyers.

Wetland B is a small, isolated wetland dominated by non-native vegetation. It lacks woody vegetation and provides only low functional opportunity to the local watershed. The preferred layout provides a highly connected transportation network that provides multiple access points and shortens the physical distance emergency responders have to travel. Sidewalks will provide safe, walkable travel throughout the neighborhood.

Avoidance to Wetland B would require the loss of at least ±10 affordable lots, which is significant, as removing lots increases the cost per lot to develop affordable homes. The City recently published a Housing Action Plan that outlines the need for affordable housing. The Building Industry Association of Clark County defines affordable as housing that costs 30 percent less of a household's income. This project will provide over 100 affordable homes for Camas, which in turn provides a public benefit to Camas. Wetland B is a small, hydrologically isolated wetland providing minimal habitat functions. Impacting this wetland to provide needed housing with a safe transportation network—while mitigating at a wetland mitigation bank that protects higher functioning wetlands—will result in an overall beneficial use of resources to the local community.

Therefore, there are no practical alternatives that meet the project goal of providing affordable housing to the City of Camas.

Wetland Minimization

The site plan was designed to avoid impacts to Wetland A (the larger wetland on the site) and the associated buffer.

Complete avoidance to Wetland B is infeasible. Due to the narrow linear configuration of Wetland B and its location on the site, minimizing impact to a portion of wetland would result in small, fragmented wetlands that would not likely sustain after the surrounding development was constructed. The unavoidable wetland impacts will be mitigated through purchase of wetland mitigation bank credits. The proposed wetland mitigation is located at an established wetland mitigation bank within the approved service area of the bank instrument. The wetland mitigation bank provides in-kind credits (PEM/Slope) as the impacted wetlands. The proposed mitigation is consistent with Section 16.53.050.D.5.a. of the CCC.

Locally Significant Oregon White Oak Impacts

The project requires removal of nine single Oregon white oak trees. The single oaks that will be removed range from 21 inches DBH to 43 inches DBH. Per AKS' arborist, some of the trees required for removal exhibit decay at the base, a one-sided canopy, and/or top lean, all indicators of poor health.

Oregon White Oak Avoidance Sequencing

Avoidance to locally significant priority single oak trees is not practical. Oak removal is necessary for the grading required to meet City of Camas Code requirements. Streets with driveway access are only allowed a maximum 12% grade. This requirement has a ripple affect across the site, requiring some portions of the site to be raised and other portions to be lowered. Additionally, lot grading is required to maintain the goal of providing affordable housing. Home construction on a steeper sloped lots can be significantly more expensive than a flatter lot, increasing end cost of the home.

As discussed above, alternative layouts to protect trees would require cul-de-sacs, which are less than ideal for emergency vehicle circulation and access and could potentially impact overall public safety.

Wetland Buffer Impacts

Permanent buffer encroachment is necessary to accommodate the frontage improvements along NE 28th Street. Buffer impacts have been minimized by curb-tight sidewalk. Permanent buffer impacts will be mitigated on-site through buffer averaging. The total buffer area after averaging is the same as the total area prior to averaging. The buffer encroachment and averaged area is shown on attached Figures 9 and 9A.

Temporary wetland buffer encroachment is necessary to install the stormwater outfall. Encroachment has been minimized by utilizing a narrow construction corridor. No native woody vegetation will be removed from within buffer for the installation of the stormwater outfall. Contours will be restored to pre-impact contours and re-planted with native vegetation to ensure no net loss of wetland function.

Remaining wetland and buffers will be protected in a separate tract with a conservation easement covenant. Permanent fencing and signage along the outer edges of the remaining buffer will be installed in accordance with Chapter 16.53.040.C.2 of the CCC. The location of the signage and fencing is shown on attached Figure 9A.

I. Preliminary Mitigation Plan

Wetland Mitigation

To mitigate for the direct permanent wetland impacts, the applicant will purchase credits from the Terrace Wetland Mitigation Bank. The Terrace Wetland Mitigation Bank was established in 2017 and approved by ECY to release credits within a prescribed service area. The project site is located within the service area watershed of the Terrace Wetland Mitigation Bank's certified bank instrument. Per the Terrace Mitigation Bank instrument, PEM Slope Wetlands were established. The impact wetlands are PEM Slope Wetlands. Therefore, the proposed use of credits from the Terrace Wetland Mitigation Bank is consistent with the terms and conditions of the certified bank instrument. The replacement ratios are also consistent with the bank instrument, requiring 0.18 credits to compensate for 0.18 acres of direct Cat IV PEM wetland impact. Wetland bank credits will be purchased prior to any work within wetlands, eliminating temporal functional loss.

Oregon White Oak Mitigation

The applicant will purchase habitat credits to compensate for the removal of priority individual Oregon white oak trees from the Terrace Bank.

J. Statement of Preparation

This report documents the investigation, best professional judgment, and conclusions of the investigator. It is correct and complete to the best of the author's knowledge. This assessment was prepared in accordance with USACE and ECY wetland delineation reporting standards and with the City's environmental protection ordinance (Chapter 16.53). Fieldwork and reporting were conducted by wetland professionals qualified to conduct natural resource projects in Washington. Information contained in this document should be considered preliminary and used at the reader's risk until it has been reviewed and approved in writing by the appropriate local, state, and/or federal agencies with jurisdiction over natural resources on the site.

K. List of Preparers

Stacy Reed

Stacey Reed, PWS

Senior Wetland Scientist

Fieldwork, Report Preparation

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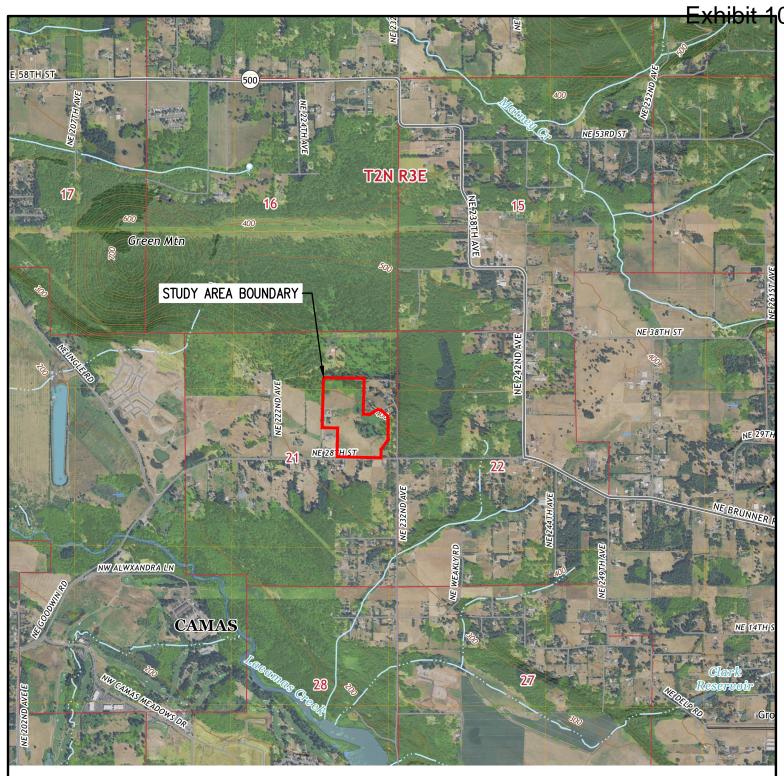


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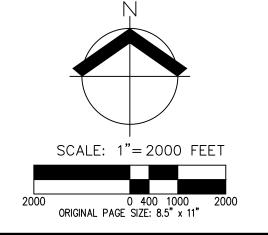
X-Rite. 2000. Year 2000 revised washable edition, Munsell soil color charts. Grand Rapids (MI): X-Rite.



Appendix A: Maps



USGS 7.5' TOPOGRAPHIC SERIES QUADRANGLE: LACAMAS CREEK, WA (2020)



USGS VICINITY MAP
CAMAS HEIGHTS SUBDIVISION CRITICAL AREAS ASSESSMENT

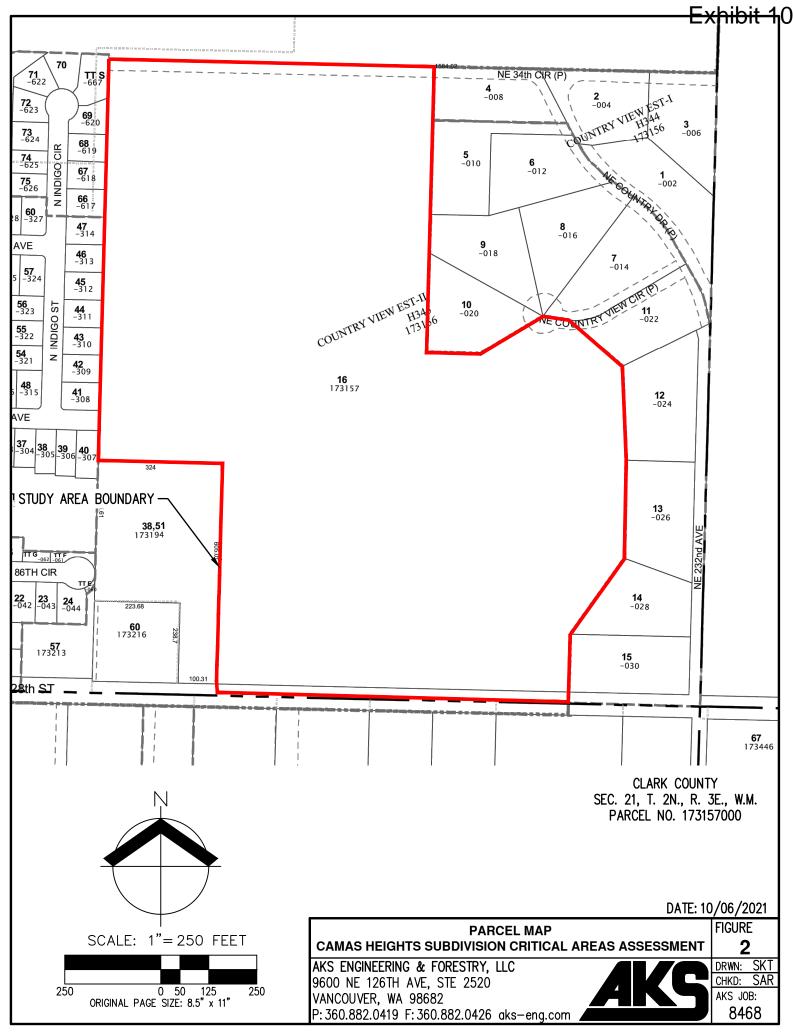
AKS ENGINEERING & FORESTRY, LLC 9600 NE 126TH AVE, STE 2520 VANCOUVER, WA 98682 P: 360.882.0419 F: 360.882.0426 aks-eng.com



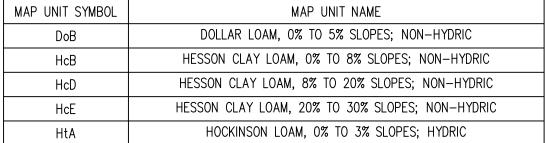
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8468







NRCS WEB SOIL SURVEY FOR CLARK COUNTY

DATE: 10/06/2021

NRCS SOIL SURVEY MAP FIGURE

NRCS SOIL SURVEY MAP
CAMAS HEIGHTS SUBDIVISION CRITICAL AREAS ASSESSMENT

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<u> AKS</u>

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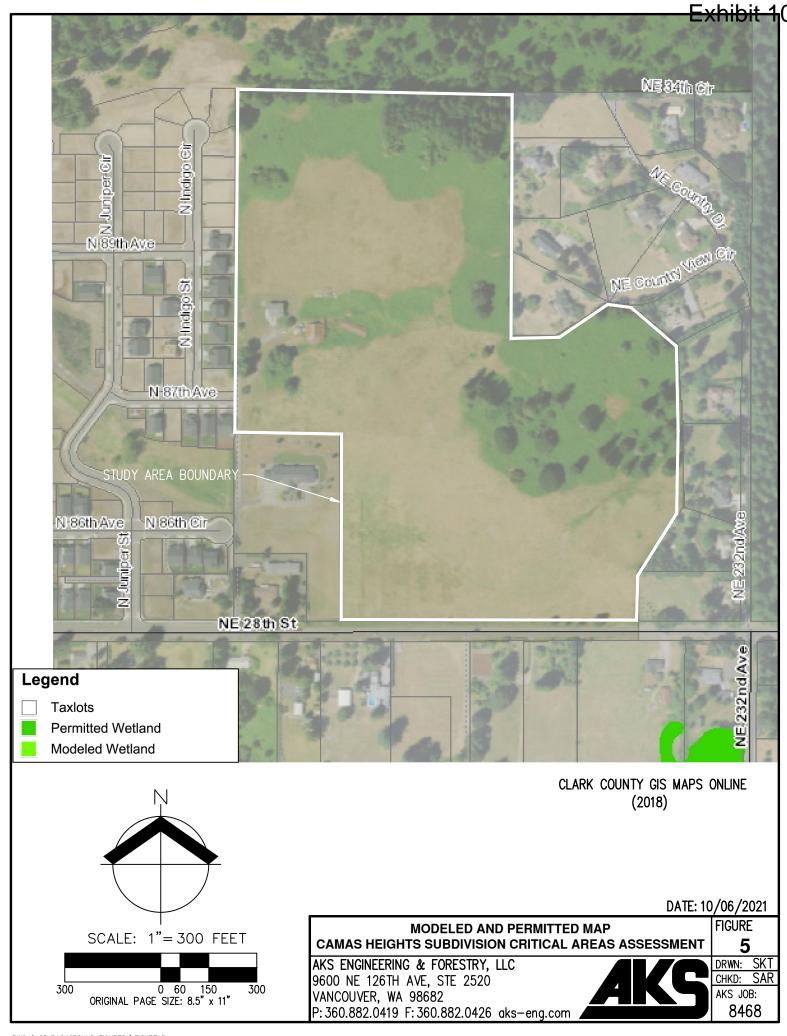
DWG: 8468 BACKGROUND FIGURES | FIGURE 3

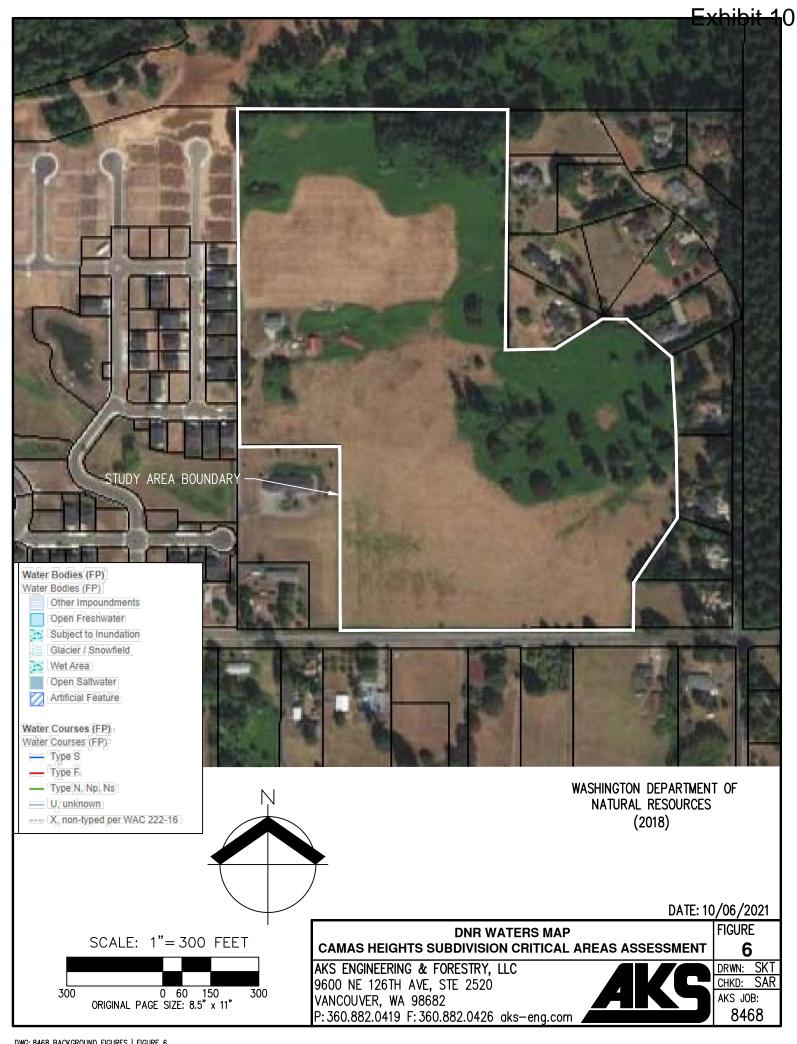
300

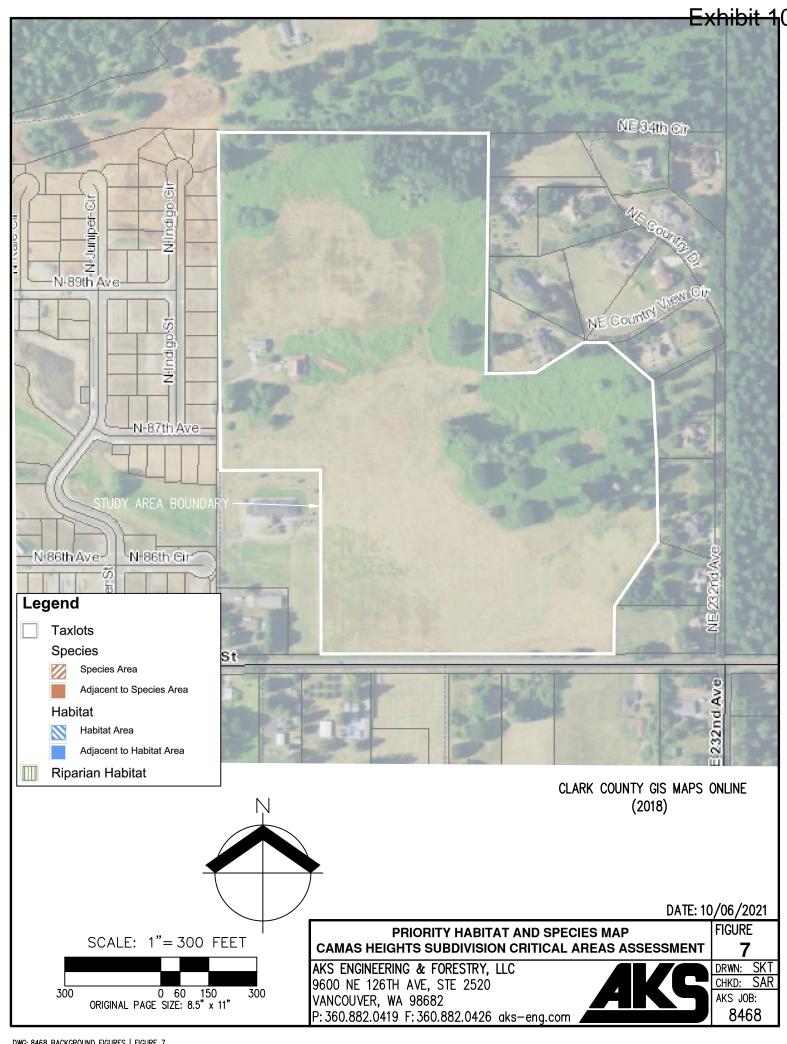
SCALE: 1"= 300 FEET

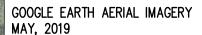
0 60 150 ORIGINAL PAGE SIZE: 8.5" x 11"











LEGEND (COLOR COPY):



TOTAL ON-SITE WETLAND AREA: 85,274 SF± (1.95 ACRES±)

PEM/SLOPE WETLAND A (CAT IV): 78,525 SF± (1.80 ACRES±) PEM/SLOPE WETLAND B (CAT IV): 6,749 SF± (0.15 ACRES±)



HIGH INTENSITY LAND USE WATER QUALITY BUFFER: 81,751 SF± (1.88 ACRES±)



PHOTO LOCATION & ORIENTATION

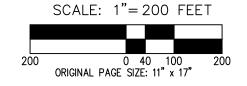


APPROXIMATE PRIORITY OREGON WHITE OAK CANOPY DRIPLINE: 19,756 SF \pm

WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC (AKS) ON APRIL 15, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MAY 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS, EXISTING CONDITIONS, TREES >6" DBH, AND STUDY AREA BOUNDARY DERIVED FROM AKS PROFESSIONAL LAND SURVEY.





DATE: 10/28/2021

WETLAND DELINEATION OVERVIEW MAP

CAMAS HEIGHTS SUBDIVISION CRITICAL AREAS ASSESSMENT

AKS ENGINEERING & FORESTRY, LLC 9600 NE 126TH AVE, STE 2520 VANCOUVER, WA 98682 360.882.0419 WWW.AKS-ENG.COM AKS ASSESSIVENT OF AK

DWG: 8468 CAA EXCOND | FIGURE 8

N 86TH CIRCLE

SEE 8B

PARCEL NO. 986051-314

SEE 8A

PARCEL NO. 173156-000

> WETLAND CONDITIONS EXTEND OFF-SITE

FORESTED AREA

> 50' HIGH INTENSITY LAND USE WATER QUALITY BUFFER

WETLAND A BOUNDARY

STUDY AREA BOUNDARY

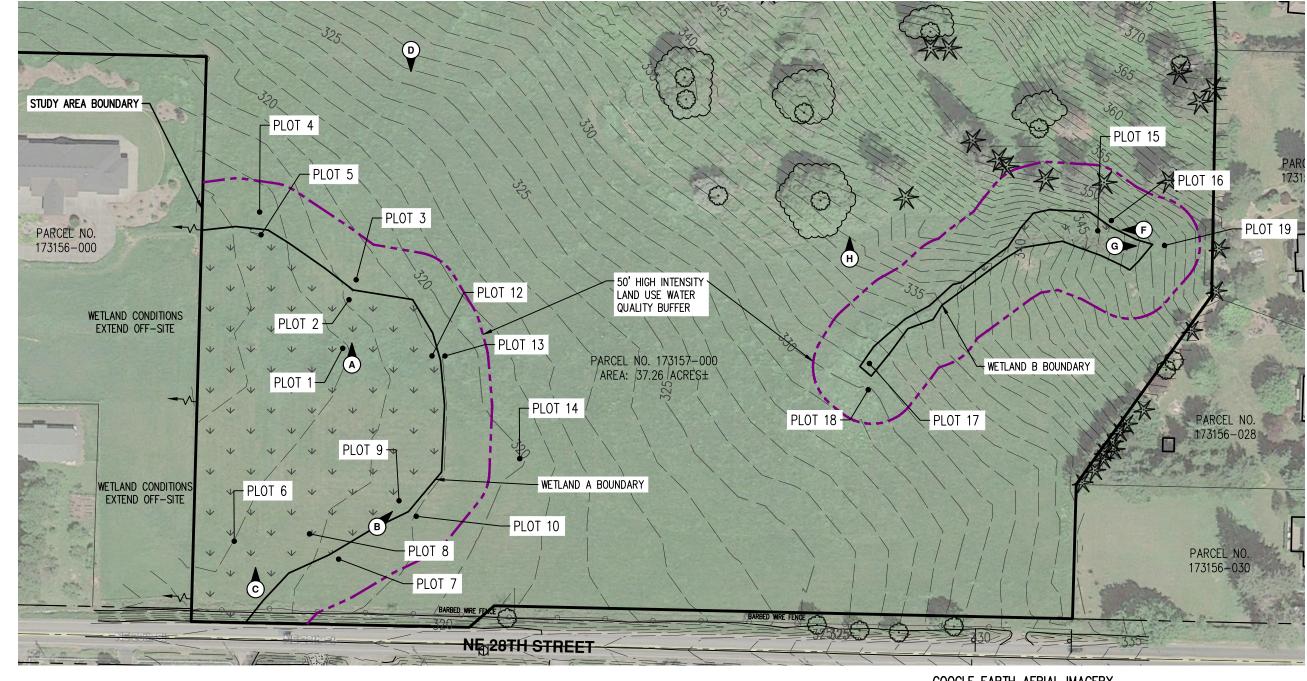
WETLAND B BOUNDARY

FIGURE

8

DRWN: SKT CHKD: SAR AKS JOB: 8468

Exhibit 10



LEGEND (COLOR COPY):

TOTAL ON-SITE WETLAND AREA: 85,274 SF± (1.95 ACRES±)

PEM/SLOPE WETLAND A (CAT IV): 78,525 SF± (1.80 ACRES±) PEM/SLOPE WETLAND B (CAT IV): 6,749 SF± (0.15 ACRES±)

HIGH INTENSITY LAND USE WATER QUALITY BUFFER: 81,751 SF± (1.88 ACRES±)

PHOTO LOCATION & ORIENTATION



APPROXIMATE PRIORITY OREGON WHITE OAK CANOPY DRIPLINE: 19,756 SF±

WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC (AKS) ON APRIL 15, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MAY 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS, EXISTING CONDITIONS, TREES >6" DBH, AND STUDY AREA BOUNDARY DERIVED FROM AKS PROFESSIONAL LAND SURVEY. GOOGLE EARTH AERIAL IMAGERY MAY, 2019

WETLAND DELINEATION MAP

CAMAS HEIGHTS SUBDIVISION CRITICAL AREAS ASSESSMENT

AKS ENGINEERING & FORESTRY, LLC 9600 NE 126TH AVE, STE 2520 VANCOUVER, WA 98682 360.882.0419 WWW.AKS-ENG.COM

DATE: 10/28/2021

FIGURE

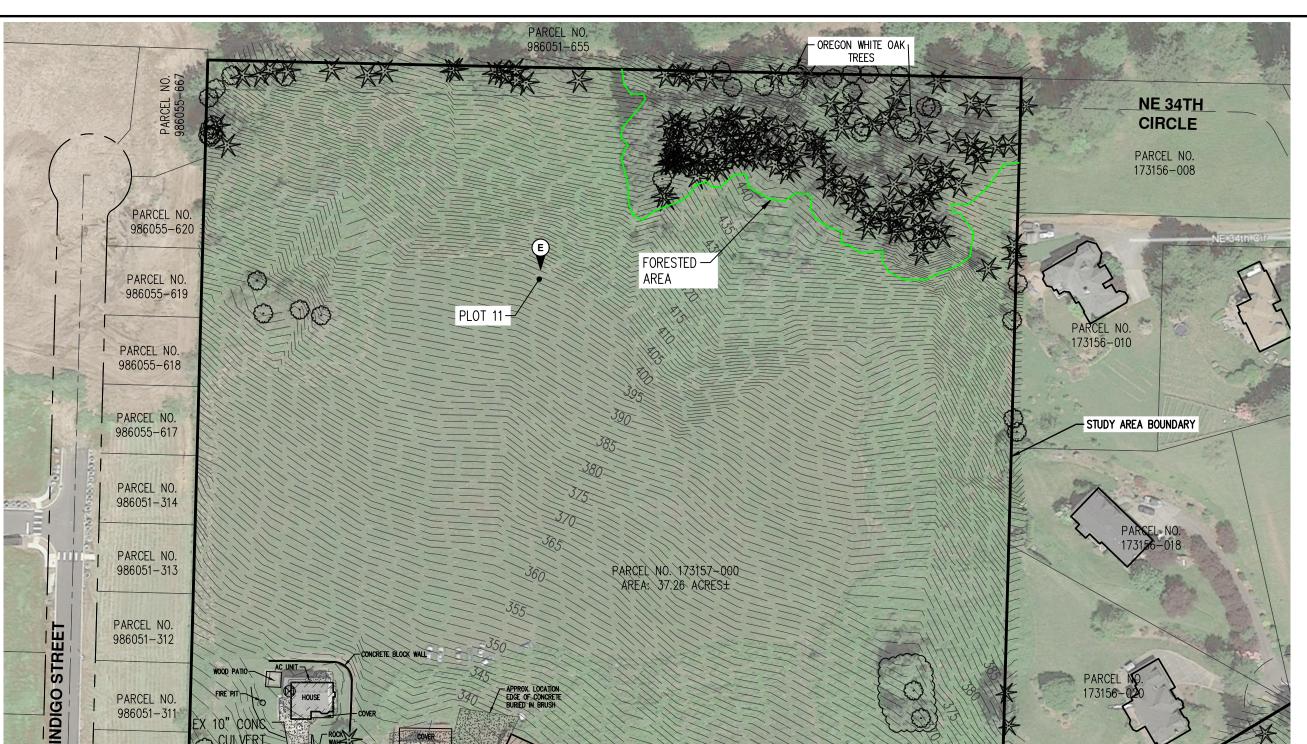
8A

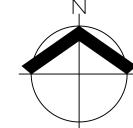
ORWN: SK1 CHKD: SAR

8468

AKS JOB:

SCALE: 1"=100 FEET 0 20 50 ORIGINAL PAGE SIZE: 11" x 17"





LEGEND (COLOR COPY):



TOTAL ON-SITE WETLAND AREA: 85,274 SF± (1.95 ACRES±)

PEM/SLOPE WETLAND A (CAT IV): 78,525 SF± (1.80 ACRES±) PEM/SLOPE WETLAND B (CAT IV): 6,749 SF± (0.15 ACRES±)



HIGH INTENSITY LAND USE WATER QUALITY BUFFER: 81,751 SF± (1.88 ACRES±)



PHOTO LOCATION & ORIENTATION

APPROXIMATE PRIORITY OREGON WHITE OAK CANOPY DRIPLINE: 19,756 SF±

WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC (AKS) ON APRIL 15, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MAY 10, 2021.

1-FOOT INTERVAL GROUND CONTOURS, EXISTING CONDITIONS, TREES >6" DBH, AND STUDY AREA BOUNDARY DERIVED FROM AKS PROFESSIONAL LAND SURVEY.

SCALE: 1"=100 FEET



GOOGLE EARTH AERIAL IMAGERY MAY, 2019

DATE: 10/28/2021 FIGURE

8B

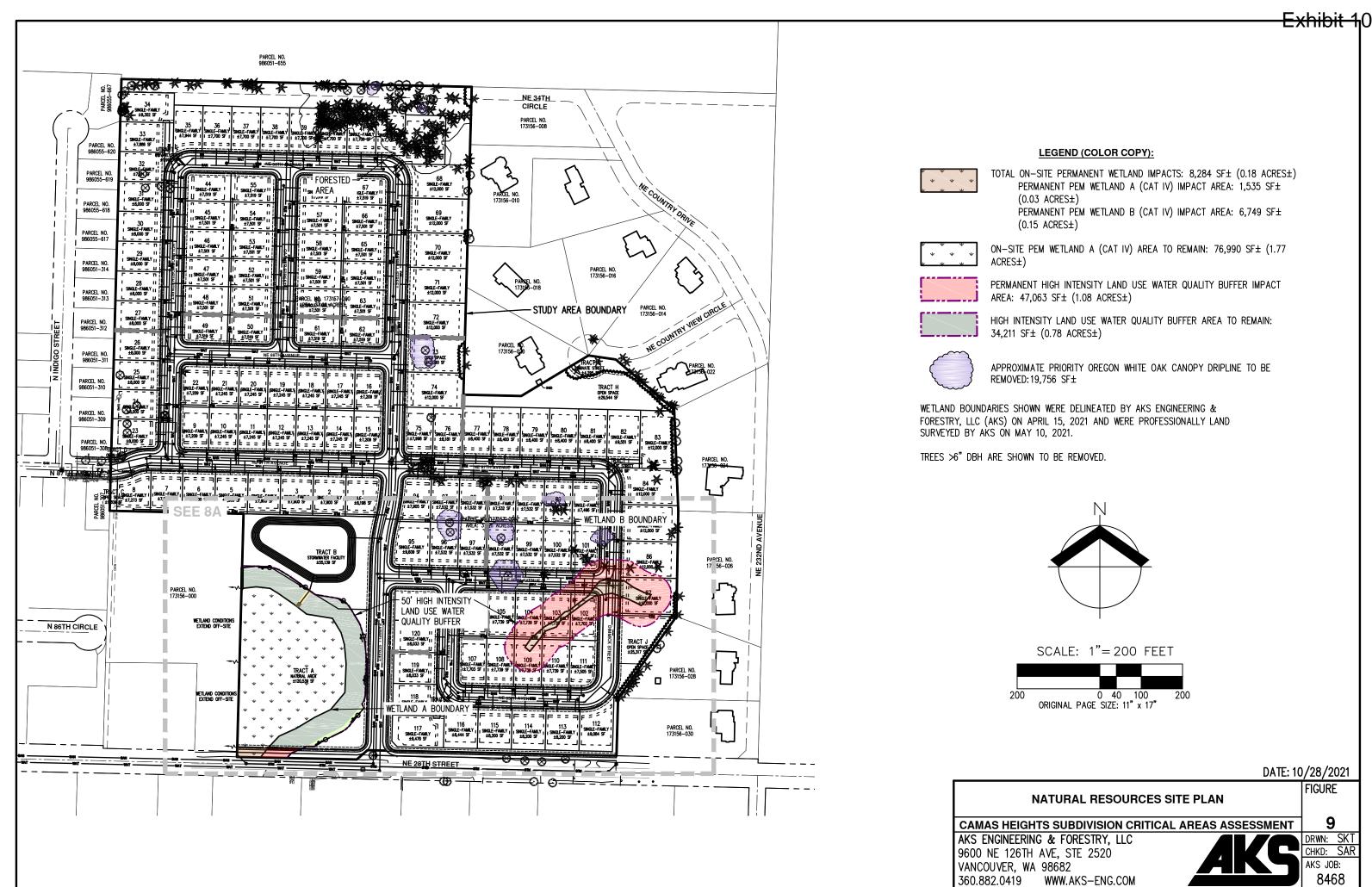
Exhibit 10

WETLAND DELINEATION MAP

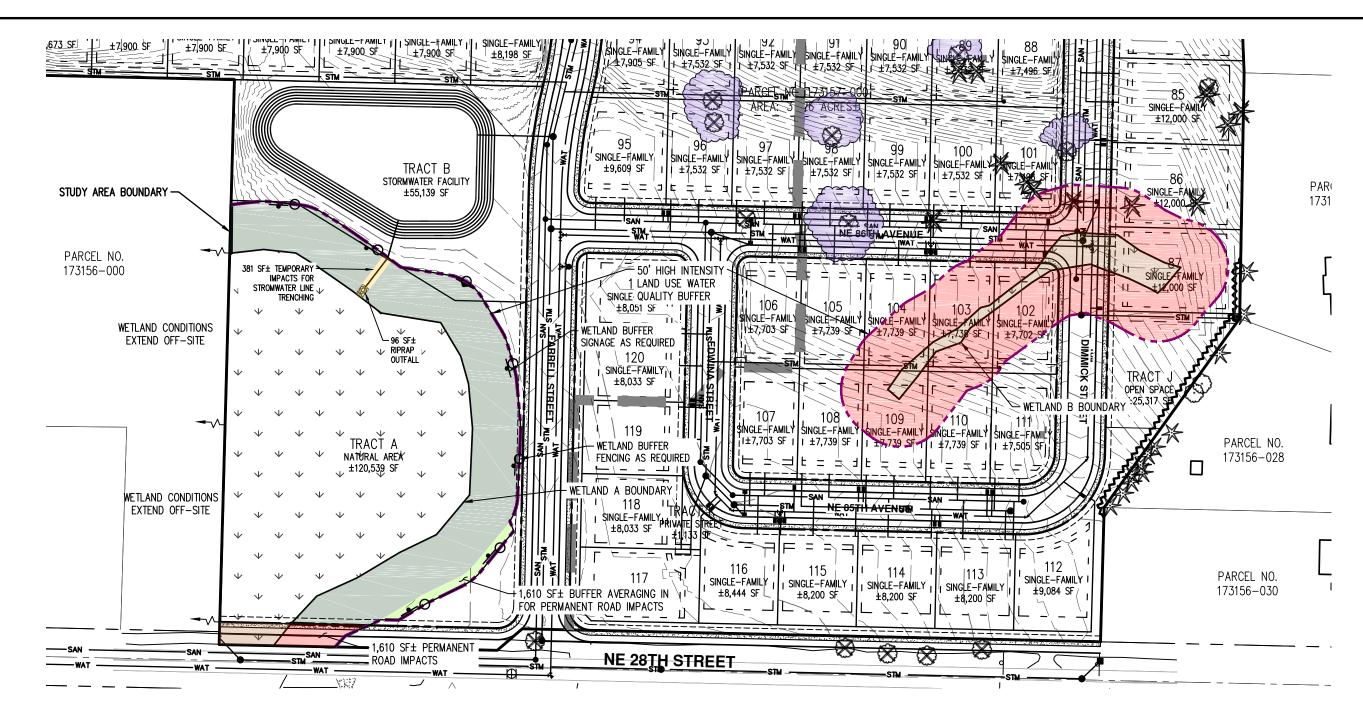
CAMAS HEIGHTS SUBDIVISION CRITICAL AREAS ASSESSMENT

AKS ENGINEERING & FORESTRY, LLC 9600 NE 126TH AVE, STE 2520 VANCOUVER, WA 98682 360.882.0419 WWW.AKS-ENG.COM





DWG: 8468 CAA SITE PLAN | FIGURE 9



LEGEND (COLOR COPY):



TOTAL ON-SITE PERMANENT WETLAND IMPACTS: 8,284 SF± (0.18 ACRES±) PERMANENT PEM WETLAND A (CAT IV) IMPACT AREA: 1,535 SF± (0.03 ACRES±) PERMANENT PEM WETLAND B (CAT IV) IMPACT AREA: 6,749 SF±

(0.15 ACRES±)



ON-SITE PEM WETLAND A (CAT IV) AREA TO REMAIN: 76,990 SF± (1.77



PERMANENT HIGH INTENSITY LAND USE WATER QUALITY BUFFER IMPACT AREA: 47,063 SF± (1.08 ACRES±)



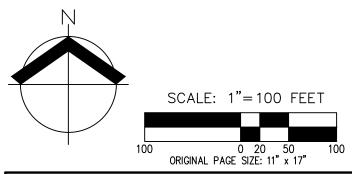
HIGH INTENSITY LAND USE WATER QUALITY BUFFER AREA TO REMAIN: 34,211 SF± (0.78 ACRES±)



APPROXIMATE PRIORITY OREGON WHITE OAK CANOPY DRIPLINE TO BE REMOVED: 19,756 SF±

WETLAND BOUNDARIES SHOWN WERE DELINEATED BY AKS ENGINEERING & FORESTRY, LLC (AKS) ON APRIL 15, 2021 AND WERE PROFESSIONALLY LAND SURVEYED BY AKS ON MAY 10, 2021.

TREES >6" DBH ARE SHOWN TO BE REMOVED.



DATE: 10/28/2021 FIGURE

9A

8468

NATURAL RESOURCES SITE PLAN

CAMAS HEIGHTS SUBDIVISION CRITICAL AREAS ASSESSMENT

AKS ENGINEERING & FORESTRY, LLC 9600 NE 126TH AVE, STE 2520 VANCOUVER, WA 98682 360.882.0419 WWW.AKS-ENG.COM





A	p	pendi	xB:	Wetl	and	Deter	rmina	ation	Data	Forms
---	---	-------	-----	------	-----	-------	-------	-------	------	-------

Project/Site: Camas Heights		City/County	: Camas/ Clark		Sampling Date:	4/15/2021
Applicant/Owner: Lennar Northwest, Inc.				State: WA	Sampling Po	int: 1
Investigator(s): Stacey Reeed, PWS and S	Sonya Templeton	Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.,	W.M.	
Landform (hillslope, terrace, etc.): Hillslo	рре		Local relief (co	oncave, convex, none):	Concave S	lope (%): < 3
Subregion (LRR): A. Northwest Forests ar	nd Coast	Lat: 45.644069	Lor	ng: -122.43908840	Datum:	
Soil Map Unit Name: Hockinson lo	am (Unit HtA), 0% to 39	% slopes; Hydric	_		assification:	none
Are climatic / hydrologic conditions on the s				es X No	(If no, explain	in Remarks)
Are Vegetation , Soil Are Vegetation , Soil	, or Hydrology	significantly dis	sturbed? A	re "Normal Circumstances		Yes X No
Are Vegetation, Soil	, or Hydrology	naturally proble	ematic? (If	f needed, explain any ans	wers in Remarks.)	
SUMMARY OF FINDINGS - Atta	ch site map show	ing sampling po	oint location	s, transects, import	tant features,	etc.
Hydrophytic Vegetation Present?	Yes X	No				
Hydric Soil Present?	Yes X	No	Is the Sampl			
Wetland Hydrology Present?	Yes X	No	within a Wet	land? Yes X	No	
Precipitation: According to the NWS Vancouver weather Remarks:	station, 0.00 inches of r	ainfall was received o	on the day of the	site visit and 0.09 inches	s within the two we	eks prior.
VEGETATION						
VEGETATION	Absolute	Dominant	Indicator	Dominance Test wor	kahaati	
Tree Stratum (Plot Size: 30' r or)	% Cover	Species?	Status	Number of Dominant S		
1.	<u> 70 00001</u>	<u>орсоюз:</u>	<u>Otatus</u>	That Are OBL, FACW,		1 (A)
2.				matric obe, inov,		(/ ()
3.				Total Number of Domi	nant	
4.				Species Across All Str		1 (B)
-	0%	= Total Cover		openies / torees / till ett		(5)
Sapling/Shrub Stratum (Plot Size: 10' r or				Percent of Dominant S	Species	
1.	<u>-</u>			That Are OBL, FACW,	•	00% (A/B)
2.				Prevalence Index wo		(,,,,)
3.				Total % Cover of:		
4.				OBL species 0	x 1 =	0
5.				FACW species 80		160
	0%	= Total Cover		FAC species 20	x 3 =	60
Herb Stratum (Plot Size: 5' r or)				FACU species 0	x 4 =	0
Phalaris arundinacea	80%	Yes	FACW	UPL species 0	x 5 =	0
Alopecurus pratensis	10%	No	FAC	Column Totals: 100	0 (A)	220 (B)
3. Poa species	10%	No	FAC*	Prevalence Index	= B/A =	2.20
4.				Hydrophytic Vegetat	ion Indicators:	
5.				1 - Rapid Test for	Hydrophytic Veget	ation
6.				X 2 - Dominance Tes	st is >50%	
7.				X 3 - Prevalence Ind	lex is ≤3.0 ¹	
8.				4 - Morphological	Adaptations ¹ (Prov	ide supporting
9.				data in Remark	s or on a separate	sheet)
10.				5 - Wetland Non-V	/ascular Plants ¹	
11.				Problematic Hydro	phytic Vegetation	(Explain) ¹
Woody Vine Stratum (Plot Size: 10' r or		= Total Cover		¹ Indicators of hydric so be present.	oil and wetland hyd	Irology must
1 2		= Total Cover		Hydrophytic Vegetation	Yes X No	
	%			Present?		
Remarks: Scattered JUNEFF in wetland near plot. *A	ssumed FAC.					

SOIL							Sampling Point:	1
	ption (Describe to the	depth nee	ded to document the	e indicator or	confirm the abso	ence of indicators		
Depth	Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-11	10YR 3/2	90	7.5YR 3/4	10	С	M/ PL	SiCL	
11-16	10YR 3/2	85	7.5YR 4/6	15	С	М	SiCL	
	·					<u> </u>		
	<u> </u>							
	<u> </u>							
	entration, D=Depletion		iced Matrix CS=Cover	red or Coated	Sand Grains.			
	Pore Lining, M=Matrix.							
Hydric Soil Indi	licators (Applicable to	ວ all LRRs, າ	unless otherwise no	rted):		Indicators for	Problematic Hydric S	Soils³:
Histosol (A1	1)		Sandy Redox (St	5)		2 cm Muck	(A10)	
Histic Epipe	edon (A2)		Stripped Matrix (S6)		Red Parent	t Material (TF2)	
Black Histic	; (A3)		Loamy Mucky Mi		cept MLRA 1)	Very Shallo	ow Dark Surface (TF1	2)
Hydrogen S	Sulfide (A4)	•	Loamy Gleyed M	latrix (F2)		Other (Expl	lain in Remarks)	
Depleted Be	elow Dark Surface (A1	1)	Depleted Matrix ((F3)				
	Surface (A12)		X Redox Dark Surfa	` '		³ Indicators of h	ydrophytic vegetation	and wetland
	ky Mineral (S1)	•	Depleted Dark Si	, ,		hydrology must	t be present, unless di	
Sandy Gley	ed Matrix (S4)		Redox Depression	ons (F8)		problematic.		
Restrictive Lay	ver (if present):			<u> </u>				
Тур	oe:					Hydric Soil		
Depth (inches)	,):					Present?	Yes X	No
HYDROLOG	······································							
	logy Indicators:							
•	ors (minimum of one re	equir <u>ed; che</u> c	ck all that apply)			Secondary Indi	cators (2 or more requ	uired)
Surface Wa			Water-Stained Le	eaves (B9) (ex	cept MLRA	•	ned Leaves (B9) (MLF	
High Water		-	1, 2, 4A, and 4			4A, and	, , ,	o · · · , _ · ,
Saturation (Salt Crust (B11)	_,			Patterns (B10)	
Water Mark	` '	-	Aquatic Invertebr	rates (B13)			n Water Table (C2)	
	Deposits (B2)	-	Hydrogen Sulfide	, ,			Visible on Aerial Imag	ery (C9)
Drift Deposi	• , ,	-	X Oxidized Rhizosp	, ,	iving Roots (C3)		ic Position (D2)	, ,
	r Crust (B4)	-	Presence of Red		• ,	Shallow Aq		
Iron Deposi	` ,	-	Recent Iron Redu	` ,	•	X FAC-Neutra		
Surface Soi	il Cracks (B6)	-	Stunted or Stress		, ,		: Mounds (D6) (LRR A	.)
Inundation \	Visible on Aerial Image	ery (B7)	Other (Explain in	Remarks)		Frost-Heav	re Hummocks (D7)	,
Sparsely Ve	egetated Concave Sur	face (B8)						
Field Observati	ions:					1		
Surface Water I	Present? Yes		No X	Depth (inche	es):	Wetland		
Water Table Pre				Depth (inche		Hydrology	Yes X	No
Saturation Pres				Depth (inche	·	Present?		
(includes capilla	ary fringe)				·			
Describe Boss	and Data (atroom o	moni	taring well gorial ni	tee proviou	- increatione) i	faveilables		
Describe Reco	orded Data (stream ga	Juge, mom	Oring Well, aeriai pii	otos, previou	is inspections), i	r avallable:		
Remarks:								
Left pit open for	half hour- soils moist t	throughout.						

Applicant Chowne Lennar Montwest, Inc. Interestingation Surge Read PMS and Surge Templation Social Templation Templ	Project/Site: Camas Heights		City/County:	: Camas/ Clark		Sampling Date:	4/15/2021
Investigation Secure Recent Post and Sonry a Templeton Section, Township, Range Sec. 21, T.2N. R.3E., W.M.	·						
Submitter Care Ca	Investigator(s): Stacey Reeed, PWS and Sonya 1	empleton	Section, 1	Township, Rang	e: Sec. 21, T.2N., R.3E.,		
Submergion (LRRS) A. Northwest Forests and Coase Let 45.642/096 Long: 1/22/43/96/754 To 10 Long: 1/22/43/96/75	Landform (hillslope, terrace, etc.): Hillslope			Local relief (co	oncave, convex, none):	None S	Slope (%): < 3
Modelman	Subregion (LRR): A. Northwest Forests and Coast	st	Lat: 45.644209		· · · · · · · · · · · · · · · · · · ·		
Are Vagedation	Soil Map Unit Name: Hockinson loam (Ur	it HtA), 0% to 3%	slopes; Hydric	_	· · · · · · · · · · · · · · · · · · ·		none
SumMARY OF FINDINGS - Attack site map showing sampling point locations, transects, important features, etc.					es X No	(If no, explair	n in Remarks)
SumMARY OF FINDINGS - Attack site map showing sampling point locations, transects, important features, etc.	Are Vegetation , Soil	, or Hydrology _	significantly dist	turbed? Ar		•	
Hydric Soll Present? Yes X No	Are Vegetation, Soil	, or Hydrology _	naturally proble	matic? (If	needed, explain any ans	wers in Remarks.	.)
Second Present? Yes X No Set the Sampled Area Within a Wetland? Yes X No No Within a Wetland? Yes X No	SUMMARY OF FINDINGS – Attach sit	e map showi	ng sampling po	int location	s, transects, impor	tant features,	etc.
Wetland Hydrology Present? Yes X No Within a Wetland? Yes X No							
Prevalentation							
VEGETATION	Wetland Hydrology Present?	res X	No	within a weti	and? Yes X	No	
Absolute Dominant Indicator Species Status That Are OBL, FACW, or FAC: 1	According to the NWS Vancouver weather station,	0.00 inches of ra	ainfall was received o	on the day of the	site visit and 0.09 inches	s within the two wo	eeks prior.
Absolute Species 7 Status Indicator Status Species 7 Status Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)							
Number of Dominant Species	VEGETATION						
That Are OBL, FACW, or FAC: 1 (A)	Torre Otrestano (Diet Oires 201 a es						
2. 3. 4. 5. 5. 5. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	· · · · · · · · · · · · · · · · · · ·	% Cover	Species?	<u>Status</u>			
Total Number of Dominant Species Across All Strata: 1 (B)					That Are OBL, FACW,	, or FAC:	1 (A)
Sapling/Shrub Stratum (Plot Size: 10' r or)					Tatal Niverban of Dansi		
Sapling/Shrub Stratum (Plot Size: 10' r or) Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)							4 (D)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)	···		Total Cavar		Species Across Ali Str	ala:	<u> </u>
That Are OBL, FACW, or FAC: 100% (A/B)	Sanling/Shrub Stratum (Plot Size: 10' r or		Total Cover		Percent of Dominant S	Snecies	
Prevalence Index worksheet: Total % Cover of: Multiply by:	•	1				•	100% (A/P)
3.	2.					011710.	100% (A/B)
FACW species O x 2 = O O x 2 = O FAC species O x 2 = O FAC species O x 3 = O S S FAC FAC species O x 4 = O FAC	3.			•			
FACW species O x 2 = O O x 2 = O FAC species O x 2 = O FAC species O x 3 = O S S FAC FAC species O x 4 = O FAC	4.				OBL species	x 1 =	0
Herb Stratum (Plot Size: 5' r or)	5.				· · · · · · · · · · · · · · · · · · ·		
Herb Stratum (Plot Size: 5' r or) 1. Alopecurus pratensis 90% Yes FAC UPL species 0		0% =	Total Cover		FAC species 10	0 x 3 =	300
2. Schedonorus arundinaceus 5% No FAC Column Totals: 100 (A) 300 (B) 3. Poa species 5% No FAC* Prevalence Index = B/A = 3.00 4. 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 10. 100% = Total Cover Woody Vine Stratum (Plot Size: 10¹ r or 1) 1. 2.	Herb Stratum (Plot Size: 5' r or)				FACU species 0	x 4 =	0
2. Schedonorus arundinaceus 5% No FAC Column Totals: 100 (A) 300 (B) 3. Poa species 5% No FAC* Prevalence Index = B/A = 3.00 4. Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 5.	Alopecurus pratensis	90%	Yes	FAC	UPL species 0	x 5 =	0
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation		5%	No	FAC	Column Totals: 10	0 (A)	300 (B)
1 - Rapid Test for Hydrophytic Vegetation 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)¹ 100% = Total Cover Woody Vine Stratum (Plot Size: 10' r or) 1. 2. Whydrophytic Vegetation Yes X No Present? Remarks:	3. Poa species	5%	No	FAC*	Prevalence Index	= B/A =	3.00
6. X 2 - Dominance Test is >50% 7. X 3 - Prevalence Index is ≤3.0¹ 8. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 10. 5 - Wetland Non-Vascular Plants¹ 11. Problematic Hydrophytic Vegetation (Explain)¹ 1 Indicators of hydric soil and wetland hydrology must be present. 2. Hydrophytic Vegetation Yes X No Present?	4.				Hydrophytic Vegetat	ion Indicators:	
7.	5.				1 - Rapid Test for	Hydrophytic Vege	etation
8. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 10. 5 - Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation (Explain)¹ 11. Problematic Hydrophytic Vegetation (Explain)¹ 1 Indicators of hydric soil and wetland hydrology must be present. 1. Hydrophytic Vegetation Yes X No Present? Remarks:	6				X 2 - Dominance Te	st is >50%	
9. data in Remarks or on a separate sheet) 10. 5 - Wetland Non-Vascular Plants 1 Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must be present. 1. Hydrophytic 2. O% = Total Cover Wegetation Yes X No Present? Remarks:	7				X 3 - Prevalence Ind	lex is ≤3.0 ¹	
10	8				4 - Morphological	Adaptations ¹ (Pro	ovide supporting
Problematic Hydrophytic Vegetation (Explain) 100% = Total Cover Woody Vine Stratum (Plot Size: 10' r or) 1.	9				data in Remark	s or on a separat	e sheet)
100% = Total Cover Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Yes X No Present? Remarks:	10				——		
Woody Vine Stratum (Plot Size: 10' r or) be present. 1. Hydrophytic 2. Usegetation Present? Yes X No 8 Bare Ground in Herb Stratum 0% Present?	11					. , .	· · /
2		100% =	Total Cover		•	oil and wetland hy	drology must
	2.	0% =	Total Cover		Vegetation	Yes X No	
	Domonico						

Profile Description (Describe to the depth needed Depth Depth Matrix (inches) Color (moist) % 0-14 10YR 3/2 95				{	Sampling Point:	2
(inches) Color (moist) %	I to document the	e indicator or confirm	n the absence of	findicators):		
		Redox Feature	:S			
0-14 10YR 3/2 95	Color (moist)		ype ¹	Loc ²	Texture	Remarks
	5YR 3/4	4	С	М	SiCL	
	7.5YR 4/6	1	С	М	SiCL	
<u> </u>						
<u> </u>						
					_	
¹ Type: C=Concentration, D=Depletion, RM=Reduced	Matrix CS=Cove	red or Coated Sand G	rains.			
² Location: PL=Pore Lining, M=Matrix.		· n				2
Hydric Soil Indicators (Applicable to all LRRs, unl		-			roblematic Hydric S	Soils ³ :
Histosol (A1)	Sandy Redox (S	•		2 cm Muck (A	•	
Histic Epipedon (A2)	Stripped Matrix (Material (TF2)	
Black Histic (A3)		ineral (F1) (except MLI		-	Dark Surface (TF12	2)
Hydrogen Sulfide (A4)	Loamy Gleyed M		_	Other (Explai	in in Remarks)	
Depleted Below Dark Surface (A11)	_Depleted Matrix	` '				
	Redox Dark Surf	` ,	³ Ind	icators of hyd	Irophytic vegetation a	and wetland
Sandy Mucky Mineral (S1)	_Depleted Dark S	, ,	•		e present, unless dis	sturbed or
Sandy Gleyed Matrix (S4)	Redox Depression	ons (F8)	prot	olematic.		
Restrictive Layer (if present):						
Type:			-	Iric Soil		
Depth (inches):			Pres	sent?	Yes X	No
HYDROI OGY						
HYDROLOGY Wetland Hydrology Indicators:						
	ill that <u>apply)</u>		Sec	ondary Indica	ators (2 or more requ	iired)
Wetland Hydrology Indicators:		- >aves (B9) (except ML		•	•	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1)	Water-Stained Lo	– eaves (B9) (except ML 4B)		Water-Staine	d Leaves (B9) (MLR	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a	Water-Stained Lo	, , , .	RA	Water-Staine 4A, and 4E	d Leaves (B9) (MLR	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1) High Water Table (A2)	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11)	4B)	.RA	Water-Staine 4A, and 4E Drainage Pat	d Leaves (B9) (MLR B) tterns (B10)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Inverteb	4B) rates (B13)		Water-Staine 4A, and 4E Drainage Pat Dry-Season \	d Leaves (B9) (MLR	——————————————————————————————————————
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide	4B) rates (B13)		Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi	nd Leaves (B9) (MLR B) etterns (B10) Water Table (C2) sible on Aerial Image	——————————————————————————————————————
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide	rates (B13) e Odor (C1) pheres along Living Ro	LRA	Water-Staine 4A, and 4E Drainage Pat Dry-Season \	nd Leaves (B9) (MLR B) Iterns (B10) Water Table (C2) Sible on Aerial Image Position (D2)	——————————————————————————————————————
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check as Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos	rates (B13) e Odor (C1) pheres along Living Ro	oots (C3) X	Water-Staine 4A, and 4E Drainage Pat Dry-Season \ Saturation Vi Geomorphic	nd Leaves (B9) (MLR B) Iterns (B10) Water Table (C2) sible on Aerial Image Position (D2) tard (D3)	——————————————————————————————————————
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) X	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizos Presence of Red Recent Iron Red Stunted or Stress	rates (B13) e Odor (C1) pheres along Living Roluced Iron (C4) uction in Tilled Soils (Cosed Plants (D1) (LRR)		Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M	ord Leaves (B9) (MLR B) Iterns (B10) Water Table (C2) sible on Aerial Image Position (D2) tard (D3) Test (D5) Mounds (D6) (LRR A)	ery (C9)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Ro luced Iron (C4) uction in Tilled Soils (C sed Plants (D1) (LRR A n Remarks) Depth (inches):	Doots (C3) X C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave	d Leaves (B9) (MLR 3) tterns (B10) Water Table (C2) sible on Aerial Image Position (D2) tard (D3) Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	ery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Oxidized Rhizos Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Ro luced Iron (C4) uction in Tilled Soils (C sed Plants (D1) (LRR A n Remarks) Depth (inches): >	Doots (C3) X C6)	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology	d Leaves (B9) (MLR 3) tterns (B10) Water Table (C2) sible on Aerial Image Position (D2) tard (D3) Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	PA 1, 2, ery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe)	Water-Stained Lo 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosr Presence of Red Recent Iron Red Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Ro duced Iron (C4) uction in Tilled Soils (C sed Plants (D1) (LRR / n Remarks) Depth (inches): Depth (inches): >	Doots (C3) X C6) A) 14"	Water-Staine 4A, and 4E Drainage Pat Dry-Season V Saturation Vi Geomorphic Shallow Aqui FAC-Neutral Raised Ant M Frost-Heave Wetland Hydrology Present?	d Leaves (B9) (MLR 3) tterns (B10) Water Table (C2) sible on Aerial Image Position (D2) tard (D3) Test (D5) Mounds (D6) (LRR A) Hummocks (D7)	ery (C9)
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Project/Site: Camas Heights		City/Count	y: Camas/ Clark		Sampling Date:	4/15/2	2021
Applicant/Owner: Lennar Northwest, In	C.		·	State: WA		Point:	
Investigator(s): Stacey Reeed, PWS an	d Sonya Templeton	Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.,	, W.M.		
Landform (hillslope, terrace, etc.): Hill	slope		Local relief (co	oncave, convex, none):	Convex	Slope (%):	<3%
Subregion (LRR): A. Northwest Forests	and Coast	Lat: 45.644266	Lor	ng: <u>-122.43904058</u>	Datum:	:	
Soil Map Unit Name: Hockinson	loam (Unit HtA), 0% to 3	% slopes; Hydric			lassification:	none	
Are climatic / hydrologic conditions on the				es X No	`		,
Are Vegetation , Soil	, or Hydrology , or Hydrology	significantly di	sturbed? A	re "Normal Circumstance	•	Yes X	No
				f needed, explain any ans		•	
SUMMARY OF FINDINGS - At			oint location	s, transects, impor	tant features	, etc.	
Hydrophytic Vegetation Present?	Yes X		Is the Sampl	lod Aroa			
Hydric Soil Present?	Yes		within a Wet	Name 40		.,	
Wetland Hydrology Present?	Yes	No <u>X</u>	Within a vice	riand? Yes	No	<u>x</u>	
Precipitation: According to the NWS Vancouver weath Remarks:	er station, 0.00 inches of	rainfall was received	on the day of the	e site visit and 0.09 inche	s within the two w	veeks prior.	
remarks:							
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test wor			
Tree Stratum (Plot Size: 30' r or) <u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant			
1. 2.				That Are OBL, FACW	, or FAC:	1 (A)
3.							
4.				Total Number of Dom			D)
·		T-4-1 O		Species Across All St	rata:	(B)
Sapling/Shrub Stratum(Plot Size: 10' r o		= Total Cover		Percent of Dominant S	Species		
1.	<u>)</u>			That Are OBL, FACW	•	<u>100%</u> (A/B)
2.				Prevalence Index wo		10070	A/b)
3.				Total % Cover of			
4.				OBL species 0) x 1 =	0	
5.				FACW species 0	x 2 =	0	_
	0%	= Total Cover		FAC species 95	5 x 3 =	285	
Herb Stratum (Plot Size: 5' r or)				FACU species 0	x 4 =	0	
Alopecurus pratensis	75%	Yes	FAC	UPL species 0	x 5 =	0	
2. Poa species	15%	No	FAC*	Column Totals: 98	5 (A)	285	(B)
3. Schedonorus arundinaceus	5%	No	FAC	Prevalence Index	= B/A =	<u>3.00</u>	
4				Hydrophytic Vegetat			
5				1 - Rapid Test for	, , , ,	etation	
6.				X 2 - Dominance Te			
7.				X 3 - Prevalence Inc			
8.				4 - Morphological			rting
9.					ks or on a separa	ue sneet)	
10.				5 - Wetland Non-\ Problematic Hydro		n (Evalain)1	
11		T-4-1 O		¹ Indicators of hydric se	. , .	` ' '	-4
Woody Vine Stratum (Plot Size: 10' r or)	= Total Cover		be present.	on and wettand n	yurology mu:	Si
1		= Total Cover			Yes X No		
% Bare Ground in Herb Stratum	J /0			Present?			
Remarks:							
*Assumed FAC							

Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Pepleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Pepleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Primary Indicators of hydro hydrology must be problematic. Restrictive Layer (if present): Type: Depth (inches): Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (B9) (except MLRA High Water Table (A2) Salt Crust (B11) Sediment Deposits (B2) Primary Indicators (B13) Sediment Deposits (B2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Restrictive (B4) Presence of Reduced Iron (C4) Shallow August Iron Reduction in Tilled Soils (C6) FAC-Neutral Te Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Wetland Wetland Hydrology Present? Wetland Wetland Wetland Wetland Water Stained Leaves (B9) (except MLRA Water-Stained I Water Marks (B1) Drainage Patter Water Marks (B1) Secondary Indicator Secondary Indicator Secondary Indicator Secondary Indicator Indicators of hydro Notariace (F7) Redox Depte Mutrix (F2) Present? Secondary Indicators of hydro Present? Secondary Indicators of hydro Notariace Water (F1) Secondary Indicators of hydro Seconda	Sampling Point:	3
(inches)		
1-1-16		
11-16 10YR 3/2 95 2.5YR 2.5/1 3 C M 7.5YR 4/4 2 C M 17.5YR 4/4 2	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.	SiCL	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains. Cocation: PL=Pore Lining, M=Matrix.	SiCL	
***Publication: PL=Pore Lining, M=Matrix.** Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1)	<u> </u>	
***Publication: PL=Pore Lining, M=Matrix.** Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1)		
***Publication: PL=Pore Lining, M=Matrix.** Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1)	<u> </u>	
***Publication: PL=Pore Lining, M=Matrix.** Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1)		
***Publication: PL=Pore Lining, M=Matrix.** Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1)		
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Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1)		
Histosol (A1) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Pepleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Pepleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Primary Indicators of hydro hydrology must be problematic. Restrictive Layer (if present): Type: Depth (inches): Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (B9) (except MLRA High Water Table (A2) Salt Crust (B11) Sediment Deposits (B2) Primary Indicators (B13) Sediment Deposits (B2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Restrictive (B4) Presence of Reduced Iron (C4) Shallow August Iron Reduction in Tilled Soils (C6) FAC-Neutral Te Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Wetland Wetland Hydrology Present? Wetland Wetland Wetland Wetland Water Stained Leaves (B9) (except MLRA Water-Stained I Water Marks (B1) Drainage Patter Water Marks (B1) Secondary Indicator Secondary Indicator Secondary Indicator Secondary Indicator Indicators of hydro Notariace (F7) Redox Depte Mutrix (F2) Present? Secondary Indicators of hydro Present? Secondary Indicators of hydro Notariace Water (F1) Secondary Indicators of hydro Seconda		
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Present? Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Salt Crust (B11) Sediment Deposits (B2) Dift Deposits (B2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitar Iron Deposits (B5) Surface Soil Cracks (B6) Surface Matrix (B1) Presence of Reduced Iron (C4) Shallow Aguitar Iron Deposits (B5) Surface Soil Cracks (B6) Surface Matrix (B1) Presence of Reduced Prion (C4) Shallow Aguitar Iron Deposits (B5) Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Hydrology Present? Hydrology Present? Remarks:	roblematic Hydric Soil	ls ³ :
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Present? Hydric Soil Present? Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Salt Crust (B11) Sediment Deposits (B2) Drift Deposits (B2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Surface Water (B1) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aguitar Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Water Present? Yes No X Depth (inches): Wetland Hydrology, if available: Wetland Hydrology Wetland Hydrology, if available: Remarks:	A10)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain I Depleted Below Dark Surface (A11) Depleted Matrix (F3) And Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Problematic. Restrictive Layer (if present): Type: Depth (inches): Type: Depth (inches): Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained I Hydrogen Sulfide Odor (C1) Dariange Patter Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patter Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visib Dorisits (B3) Oxidized Rhizospheres along Living Roots (C3) Agal Mat or Crust (B4) Presence of Reduced Iron (C4) Sallow Aquitar Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test Surface Soil Cracks (B6) Sturface Nater (B7) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Heave Hudrology Present? Vestandard Present? Yes No X Depth (inches): 16" Wetland Hydrology Present? Wetland Hydrology Indicators: 16" Present? Present	Material (TF2)	
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Present? Restrictive Layer (if present): Type: Depth (inches): Depth (inches): Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B3) Algal Mat or Crust (B4) Fresch Hydrogen Sulfide Odor (C1) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Secondary Indicator (S13) Doxidized Rhizospheres along Living Roots (C3) Saturation Visib Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Fresence of Reduced Iron (C4) Saltor Surface Soil Cracks (B6) Surface Soil Cracks (B6)	/ Dark Surface (TF12)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Present? Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Saturation (A3) Salt Crust (B11) Saturation (A3) Salt Crust (B11) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Present? Surface Soil Cracks (B6) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	` ,	
Thick Dark Surface (A12)	•	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)		
Restrictive Layer (if present): Type: Depth (inches): Depth (inches):	drophytic vegetation and	
Restrictive Layer (if present):	e present, unicoo diotai	bed of
Type:		
Depth (inches): Present?		
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Satt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Waser (A3) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visib Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Te Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Yes	No X
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Salt Crust (B11) Water Marks (B1) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Vetandra (A3) Secondary Indicator Secondary Indicator Water Stained Leaves (B9) (except MLRA Water-Stained II Aquatic Invertebrates (B1) Drainage Patter Aquatic Invertebrates (B13) Dry-Season Water Networks (B1) Drainage Patter Aquatic Invertebrates (B13) Dry-Season Water Reduced (C1) Saturation Visible Geomorphic Potal (C4) Shallow Aquitar Face-Neutral Tector (C4) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Moundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Humater (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		NO A
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicator Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained I High Water Table (A2) 1, 2, 4A, and 4B) 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patter Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Wa Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visib Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Po Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitar Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Te Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mot Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hu Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Veg Hydrology Saturation Present? Yes No X Depth (inches): > 16" Pres		
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Drainage Patter Water Marks (B1) Aquatic Invertebrates (B13) Drift Deposits (B3) All Aguatic Invertebrates (B13) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		
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Saturation (A3) Salt Crust (B11) Aquatic Invertebrates (B13) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Wetland Water Table Present? Yes No X Depth (inches): Saturation Visible Presence of Reduced Iron (C4) Shallow Aquitar Recent Iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mou Frost-Heave Hu Wetland Water Table Present? Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Sediment Deposits (B13) Dry-Season Wa Saturation Present?	` , `	Ι, Δ,
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Wetland Water Table Present? Yes No X Depth (inches): Suturation Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	,	
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Visible Saturation Visible Sedomorphic Po Shallow Aquitar FAC-Neutral Te Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Te Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mou Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Setting Present? Yes No X Depth (inches): Setting Present? Present? Present? Present? Present? Present? Present? Remarks:	` ,	
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Po Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Sutration Present? Yes No X Depth (inches): Present? Present? Present? Present? Remarks:	` ,	(00)
Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Wetland Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Seturation Present? Yes No X Depth (inches): Present? Present? Present? Remarks:		(Ca)
Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Setting Concave Surface (B8) FAC-Neutral Terestory (Inches) (C6) FAC-Neutral Terestory (C6) Raised Ant Mou Frost-Heave Hu Wetland Hydrology Wetland Hydrology Saturation Present? Yes No X Depth (inches): > 16" Present? Present? Present? Remarks:	• •	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): Surface Water Present? Yes No X Depth (inches): Saturation Pr	, ,	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Huseline Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): > 16" Hydrology Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	` '	
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): > 16" Hydrology Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	, , , ,	
Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): > 16" Hydrology Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Hummocks (D1)	
Surface Water Present? Yes No X Depth (inches): Hydrology Saturation Present? Yes No X Depth (inches): > 16" Hydrology Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		
Water Table Present? Yes No X Depth (inches): > 16" Hydrology Saturation Present? Yes No X Depth (inches): > 16" Present? Output (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		
Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Yes	No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		
Remarks:		
Remarks:		
Pit left open for about 15 minutes- dry throughout.		

Project/Site: Camas Heights		City/Count	y: Camas/ Clark		Sampling Date:	: 4/15/2	2021
Applicant/Owner: Lennar Northwest, II	nc.			State: WA		Point:	
Investigator(s): Stacey Reeed, PWS ar	nd Sonya Templeton	Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.,			
Landform (hillslope, terrace, etc.): Hi	llslope		Local relief (co	oncave, convex, none):	Convex	Slope (%):	<3%
Subregion (LRR): A. Northwest Forest	s and Coast	Lat: 45.644453		ng:122.43944031		_	
Soil Map Unit Name: Hockinso	n loam (Unit HtA), 0% to 3	% slopes; Hydric	<u> </u>	·	lassification:	none	
Are climatic / hydrologic conditions on the				es X No	(If no, expla	in in Remark	s)
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly di	sturbed? A	re "Normal Circumstance	•	Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally probl	ematic? (If	f needed, explain any ans	wers in Remarks	s.)	
SUMMARY OF FINDINGS - A	ttach site map show	ing sampling p	oint location	s, transects, impor	tant features	, etc.	
Hydrophytic Vegetation Present?	Yes X		l				
Hydric Soil Present?	Yes		Is the Sampl				
Wetland Hydrology Present?	Yes	No <u>X</u>	within a Wet	land? Yes	No	<u>X</u>	
Precipitation: According to the NWS Vancouver weath	her station, 0.00 inches of	rainfall was received	on the day of the	site visit and 0.09 inche	s within the two w	veeks prior.	
Remarks:							
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test wor			
Tree Stratum (Plot Size: 30' r or) <u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species		
1				That Are OBL, FACW	, or FAC:	1 (A)
2.							
3.				Total Number of Dom	inant		
4				Species Across All St	rata:	(B)
	0%	= Total Cover					
Sapling/Shrub Stratum (Plot Size: 10' r	<u>or)</u>			Percent of Dominant S	•	40004	
1. 2.				That Are OBL, FACW		<u>100%</u> (A/B)
3.				Prevalence Index wo Total % Cover of			
4.				OBL species 0		0	_
5		T 1 10		FACW species 0		0	_
Herb Stratum (Plot Size: 5' r or	0%	= Total Cover		FACU species 0	00 x 3 = x 4 =	300	_
	1000/	V	EAC				_
Alopecurus pratensis Z.	100%	Yes	FAC	UPL species 0 Column Totals: 10		300	— (B)
3.				Prevalence Index	· ·	3.00	— ^(B)
4.				Hydrophytic Vegetat		<u>0.00</u>	
5.				1 - Rapid Test for		etation	
6.				X 2 - Dominance Te	, , , ,	jotation	
7.				3 - Prevalence Inc			
8.				4 - Morphological		ovide sunno	rtina
9.					ks or on a separa	= =	iung
10.				5 - Wetland Non-V	•	/	
11.				Problematic Hydro		on (Explain) ¹	
Woody Vine Stratum (Plot Size: 10' r or		= Total Cover		¹ Indicators of hydric so be present.	. , .	` ' '	st
1.				11. 1. 1. 1.			
2	0%	= Total Cover		Hydrophytic Vegetation Present?	Yes X No		
Remarks:							

SOIL							Sampling Point:	4
	otion (Describe to th	he depth nee	eded to document the	indicator or co	onfirm the abse	ence of indicators		-
Depth	Matrix	ix		Redox Fe	eatures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 3/2	98	7.5YR 4/4	2	С	М	SiL	Many fine roots
7-16	10YR 3/2	100					SiL	
			<u> </u>					
			uced Matrix CS=Cover	ed or Coated Sa	ind Grains.			
	Pore Lining, M=Matrix			- 15				2
		to all LKKS,	unless otherwise no				Problematic Hydric	; Soils':
Histosol (A1	•		Sandy Redox (S5	•		2 cm Muck	• •	
Histic Epipe	, ,		Stripped Matrix (S	*	= , ,,		Material (TF2)	
Black Histic	, ,		Loamy Mucky Mir		ot MLRA 1)		w Dark Surface (TF	12)
Hydrogen S	` ,		Loamy Gleyed Ma			Other (Expl	ain in Remarks)	
	elow Dark Surface (A	111)	Depleted Matrix (
	Surface (A12)		Redox Dark Surfa	` ,		³ Indicators of hy	/drophytic vegetation	n and wetland
	ky Mineral (S1)		Depleted Dark Su	, ,			be present, unless of	disturbed or
Sandy Gleye	ved Matrix (S4)		Redox Depressio	ns (F8)		problematic.		
Restrictive Laye								
Тур						Hydric Soil		
Depth (inches)):	_				Present?	Yes	No X
HADBOI OC								
HYDROLOG	logy Indicators:							
	ors (minimum of one	required: che	eck all that anniv)			Secondary India	cators (2 or more red	quired)
Surface Wat		required, one			∽+ M/I D A	-		
High Water	` '	·	Water-Stained Le	, , ,	pt with	4A, and 4	ied Leaves (B9) (ML 1R)	.RA 1, 2,
Saturation (Salt Crust (B11)	Б)			atterns (B10)	
Water Marks	` ,	•	Aquatic Invertebra	atec (R13)			Water Table (C2)	
	Deposits (B2)	•	Hydrogen Sulfide	,			/isible on Aerial Ima	gen/ (C0)
Drift Deposit	. ,	•	Oxidized Rhizosp	` ,	ing Roots (C3)		c Position (D2)	gery (Ca)
Algal Mat or	` ,	•	Presence of Redu	-	ily ixoota (Co)	Shallow Aqu	` '	
Iron Deposit	` ,	•	Recent Iron Redu	` ,	oile (C6)	FAC-Neutra	, ,	
	ils (B3) il Cracks (B6)		IVECELL HOLLIVORS	ACTION IN THIS OF	JIIS (CO)		Mounds (D6) (LRR /	Δ١
Surface Soil	I Clacks (DO)		Stunted or Stress	ad Plante (D1) (I	IDD A\	Paiced ∆nt	Modifies (DO) (Fixix)	A)
	/isible on Aerial Imag	gen/ (R7)	Stunted or Stress	, , ,	LRR A)		Hummocks (D7)	
Inundation \	Visible on Aerial Imag	• • • •	Stunted or Stress Other (Explain in	, , ,	LRR A)		e Hummocks (D7)	
Inundation \ Sparsely Ve	egetated Concave Su	• • • •		, , ,	LRR A)		e Hummocks (D7)	
Inundation \ Sparsely Ve	egetated Concave Su	urface (B8)	Other (Explain in	Remarks)		Frost-Heave	e Hummocks (D7)	
Inundation V Sparsely Ve Field Observati Surface Water F	egetated Concave Suions: Present? Yes	surface (B8)	Other (Explain in	Remarks) Depth (inches):	· · · · · · · · · · · · · · · · · · ·	Frost-Heave		
Inundation \ Sparsely Ve Field Observati Surface Water F Water Table Pre	egetated Concave Suions: Present? Yes esent? Yes	s	Other (Explain in No X No X	Remarks) Depth (inches): Depth (inches):	: :>16"	Frost-Heave Wetland Hydrology		No <u>X</u>
Inundation \ Sparsely Ve Field Observati Surface Water F Water Table Pre Saturation Prese	egetated Concave Suions: Present? Yes resent? Yes sent? Yes	surface (B8)	Other (Explain in No X No X	Remarks) Depth (inches):	: :>16"	Frost-Heave		No X
Inundation \ Sparsely Ve Field Observati Surface Water F Water Table Pre	egetated Concave Suions: Present? Yes resent? Yes sent? Yes	s	Other (Explain in No X No X	Remarks) Depth (inches): Depth (inches):	: :>16"	Frost-Heave Wetland Hydrology		No X
Inundation No. Sparsely Ve Field Observation Surface Water F Water Table Present Saturation Present (includes capilla)	egetated Concave Suions: Present? Yes resent? Yes sent? Yes ary fringe)	ss	Other (Explain in No X No X	Remarks) Depth (inches): Depth (inches): Depth (inches):	: > 16" : > 16"	Wetland Hydrology Present?		No <u>X</u>
Inundation No Sparsely Ve Field Observation Surface Water F Water Table President Saturation No Sparsely Venezue Saturation President Saturation No Sparsely Venezue Saturation No Sparsely Venezue Saturation President Satu	egetated Concave Suions: Present? Yes resent? Yes sent? Yes ary fringe)	ss	Other (Explain in No X No X No X	Remarks) Depth (inches): Depth (inches): Depth (inches):	: > 16" : > 16"	Wetland Hydrology Present?		No X
Inundation No. Sparsely Ve Field Observation Surface Water F Water Table Presolution Pres	egetated Concave Suions: Present? Yes esent? Yes sent? Yes ary fringe) orded Data (stream of	ss	Other (Explain in No X No X No X	Remarks) Depth (inches): Depth (inches): Depth (inches):	: > 16" : > 16"	Wetland Hydrology Present?		No X
Inundation No Sparsely Ve Field Observation Surface Water F Water Table President Saturation No Sparsely Venezue Saturation President Saturation No Sparsely Venezue Saturation No Sparsely Venezue Saturation President Satu	egetated Concave Suions: Present? Yes esent? Yes sent? Yes ary fringe) orded Data (stream of	ss	Other (Explain in No X No X No X	Remarks) Depth (inches): Depth (inches): Depth (inches):	: > 16" : > 16"	Wetland Hydrology Present?		No X

Project/Site: Camas Heights		City/Count	y: Camas/ Clark		Sampling Date	e: 4/15/2	2021
Applicant/Owner: Lennar Northwest, Inc.		_ ′	′	State: WA		Point:	
Investigator(s): Stacey Reeed, PWS and S	Sonya Templeton	Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.	, W.M.		
Landform (hillslope, terrace, etc.): Hillslo	оре		Local relief (co	oncave, convex, none):	Concave	Slope (%):	<3%
Subregion (LRR): A. Northwest Forests a	nd Coast La	at: 45.644388		ng: -122.43943206	Datun	_	
Soil Map Unit Name: Hockinson lo	oam (Unit HtA), 0% to 3% s	lopes; Hydric	<u> </u>	NWI o	lassification:	none	
Are climatic / hydrologic conditions on the	site typical for this time of y	ear?	Ye	es X No	(If no, expl	ain in Remarl	ks)
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly di	sturbed? A	re "Normal Circumstance	s" present?	Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (I	f needed, explain any an	swers in Remark	s.)	
SUMMARY OF FINDINGS - Atta	nch site map showing	g sampling p	oint location	s, transects, impo	rtant feature	s, etc.	
Hydrophytic Vegetation Present?	Yes X	lo					
Hydric Soil Present?		lo	Is the Sampl				
Wetland Hydrology Present?	Yes X	lo	within a Wet	land? Yes	<u> </u>		
Precipitation: According to the NWS Vancouver weather	station, 0.00 inches of rain	fall was received	on the day of the	e site visit and 0.09 inche			
Remarks:							
VEGETATION							
-	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:		
Tree Stratum (Plot Size: 30' r or)	% Cover	Species?	Status	Number of Dominant			
1.		·		That Are OBL, FACW		1	(A)
2.				,			` '
3.				Total Number of Dom	inant		
4.				Species Across All S	rata:	1	(B)
	0% = T	otal Cover		'			` '
Sapling/Shrub Stratum (Plot Size: 10' r or)			Percent of Dominant	Species		
1.				That Are OBL, FACW	/, or FAC:	<u>100%</u>	(A/B)
2.				Prevalence Index w	orksheet:		,
3.	<u> </u>			Total % Cover o	f: Multiply by	:	_
4.	<u> </u>			OBL species) x 1 =	0	
5.				FACW species 7	5 x 2 =	150	
	0% = T	otal Cover		FAC species 1	0 x 3 =	30	
Herb Stratum (Plot Size: 5' r or)				FACU species	x 4 =	0	
Phalaris arundinacea	75%	Yes	FACW	UPL species	x 5 =	0	,
Alopecurus pratensis	10%	No	FAC	Column Totals: 8	5 (A)	180	(B)
3.				Prevalence Index	c = B/A =	2.12	
4.				Hydrophytic Vegeta	tion Indicators:		
5.				1 - Rapid Test for	Hydrophytic Ve	getation	
6.				X 2 - Dominance To	est is >50%		
7.				X 3 - Prevalence In	dex is ≤3.0 ¹		
8.				4 - Morphologica	Adaptations ¹ (F	rovide suppo	orting
9.				data in Remar	ks or on a separ	ate sheet)	
10.				5 - Wetland Non-	Vascular Plants ¹	I	
11.				Problematic Hydr	ophytic Vegetati	on (Explain) ¹	
Woody Vine Stratum (Plot Size: 10' r or 1.	<u>85%</u> = T	otal Cover		¹ Indicators of hydric s be present.	oil and wetland	hydrology mu	ıst
2.	= T 5%	otal Cover		Hydrophytic Vegetation Present?	Yes X No	·	
Tare Cround in Field Calatum	<u> </u>			i resent:			
Remarks:		<u> </u>					
L							

							Sampling Point:	5
Profile Descript	tion (Describe to th	ne depth need	ded to document the	indicator or co	nfirm the abse	ence of indicators	· · · · · ·	
Depth	Matrix	x		Redox Fea	atures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-11	10YR 3/2	80	7.5YR 4/6	10	С	M	SiCL	
			5YR 3/4	10	С	PL		
11-16	10YR 4/2	80	7.5YR 4/6	20	С	M	SiCL	
			<u> </u>					
0			ced Matrix CS=Covere	ed or Coated Sar	nd Grains.			
	ore Lining, M=Matrix		41- amaila a mai	. n.		,		3
		to all LKKS, t	unless otherwise not				Problematic Hydric \$	3oìls":
Histosol (A1)		=	Sandy Redox (S5	•		2 cm Muck	• •	
Histic Epiped	` ,	-	Stripped Matrix (S	*			Material (TF2)	
Black Histic		-	Loamy Mucky Mir		t MLRA 1)		w Dark Surface (TF12	2)
Hydrogen St	` ,		Loamy Gleyed Ma			Other (Expi	ain in Remarks)	
	elow Dark Surface (A	_	Depleted Matrix (I	•				
	Surface (A12)	-	X Redox Dark Surfa	, ,			ydrophytic vegetation	
	ky Mineral (S1)	-	Depleted Dark Su	, ,		hydrology must	be present, unless di	
	ed Matrix (S4)		Redox Depression	ns (F8)		problematic.		
Restrictive Laye								
Туре						Hydric Soil		
					ı	Drocont?	Yes X	No
Depth (inches):	·	-				Present?		
Remarks:						Present?	163	
	Y					Present?		
Remarks: HYDROLOG' Wetland Hydrolo	Y	required; chec	:k all that apply)				cators (2 or more requ	iire <u>d)</u>
Remarks: HYDROLOG' Wetland Hydrolo Primary Indicator	Y logy Indicators: rs (minimum of one r	equired; chec		aves (B9) (excep	ot MLRA	Secondary India		
Remarks: HYDROLOG' Wetland Hydrolo Primary Indicator Surface Wat	Y ogy Indicators: rs (minimum of one r ter (A1)	required; chec	Water-Stained Le		ot MLRA	Secondary Indi	cators (2 or more requested Leaves (B9) (MLR	
Remarks: HYDROLOG' Wetland Hydrolo Primary Indicator	Y logy Indicators: rs (minimum of one reter (A1) Table (A2)	required; chec			ot MLRA	Secondary India Water-Stair 4A, and	cators (2 or more requested Leaves (B9) (MLR	
Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3)	required; chec	Water-Stained Le 1, 2, 4A, and 4t Salt Crust (B11)	В)	ot MLRA	Secondary India Water-Stair 4A, and 4	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10)	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water T	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1)	required; chec	Water-Stained Le	B) ates (B13)	ot MLRA	Secondary India Water-Stair 4A, and 4 Drainage P	cators (2 or more requ ned Leaves (B9) (MLR 4B)	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A	Y logy Indicators: rs (minimum of one rector (A1) Table (A2) A3) s (B1) eposits (B2)	required; chec	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11) Aquatic Invertebra	B) ates (B13) Odor (C1)		Secondary India Water-Stair 4A, and 4 Drainage P	cators (2 or more requ ned Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Imag	
Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposit	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	required; chec	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	B) ates (B13) Odor (C1) oheres along Livin		Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) at Water Table (C2) Visible on Aerial Imagor C Position (D2)	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wate High Water Saturation (A Water Marks Sediment De	Y logy Indicators: rs (minimum of one reter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4)	required; chec	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	B) ates (B13) Odor (C1) heres along Livin uced Iron (C4)	ng Roots (C3)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3)	
Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water 1 Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits	Y logy Indicators: rs (minimum of one reter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4)	required; chec	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	B) ates (B13) Odor (C1) Theres along Livin uced Iron (C4) action in Tilled So	ng Roots (C3) ills (C6)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3)	ery (C9)
Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water 1 Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil	Y logy Indicators: rs (minimum of one r) ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4)	- - - - - -	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	B) ates (B13) c Odor (C1) cheres along Livin uced Iron (C4) uction in Tilled So sed Plants (D1) (L	ng Roots (C3) ills (C6)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image C Position (D2) uitard (D3)	ery (C9)
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water To Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V	y logy Indicators: rs (minimum of one reter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) is (B5) I Cracks (B6)	- - - - - gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) c Odor (C1) cheres along Livin uced Iron (C4) uction in Tilled So sed Plants (D1) (L	ng Roots (C3) ills (C6)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A	ery (C9)
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water To Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) is (B5) I Cracks (B6) //sible on Aerial Imag	- - - - - gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	B) ates (B13) c Odor (C1) cheres along Livin uced Iron (C4) uction in Tilled So sed Plants (D1) (L	ng Roots (C3) ills (C6)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A	ery (C9)
Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water To Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Veg	Y logy Indicators: rs (minimum of one reter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) is (B5) I Cracks (B6) //sible on Aerial Image	- - - - gery (B7) _ urface (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) dodor (C1) cheres along Livin uced Iron (C4) uction in Tilled So add Plants (D1) (L Remarks)	ng Roots (C3) ills (C6) .RR A)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A	ery (C9)
Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water 1 Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet	Y logy Indicators: rs (minimum of one refer (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) is (B5) I Cracks (B6) //isible on Aerial Imagingetated Concave Surpresent? Present? Yes	gery (B7) urface (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	ates (B13) Odor (C1) Oheres along Livin Luced Iron (C4) Luction in Tilled So Led Plants (D1) (L Remarks) Depth (inches):	ng Roots (C3) ills (C6) .RR A)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image of Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	RA 1, 2, ery (C9)
Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Vec Field Observation	Y logy Indicators: rs (minimum of one reter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c Crust (B4) is (B5) l Cracks (B6) //isible on Aerial Image agetated Concave Surposs: Present? Yes	gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	ates (B13) Odor (C1) Oheres along Livin Luced Iron (C4) Luction in Tilled So Sed Plants (D1) (L Remarks) Depth (inches): Depth (inches):	ng Roots (C3) ills (C6) .RR A) > 16"	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation \(\text{X} \) Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image of Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	ery (C9)
Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water P Water Table Pre	Y logy Indicators: rs (minimum of one reter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) crust (B4) is (B5) l Cracks (B6) //isible on Aerial Image agetated Concave Surposs: Present? Yes esent? Yes ent? Yes	gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	ates (B13) Odor (C1) Oheres along Livin Luced Iron (C4) Luction in Tilled So Led Plants (D1) (L Remarks) Depth (inches):	ng Roots (C3) ills (C6) .RR A) > 16"	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image of Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	RA 1, 2, ery (C9)
Remarks: HYDROLOG' Wetland Hydrolo Primary Indicator Surface Wate High Water Ta Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Vec Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillate	Y logy Indicators: rs (minimum of one reter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c Crust (B4) is (B5) l Cracks (B6) /isible on Aerial Image of the properties of th	gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	ates (B13) dodor (C1) cheres along Livin uced Iron (C4) uction in Tilled So ded Plants (D1) (L Remarks) Depth (inches): Depth (inches):	ng Roots (C3) ills (C6) .RR A)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image of Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	RA 1, 2, ery (C9)
Remarks: HYDROLOG' Wetland Hydrolo Primary Indicator Surface Wate High Water Ta Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Vec Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillate	Y logy Indicators: rs (minimum of one reter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c Crust (B4) is (B5) l Cracks (B6) /isible on Aerial Image of the properties of th	gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	ates (B13) dodor (C1) cheres along Livin uced Iron (C4) uction in Tilled So ded Plants (D1) (L Remarks) Depth (inches): Depth (inches):	ng Roots (C3) ills (C6) .RR A)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image of Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	RA 1, 2, ery (C9)
Remarks: HYDROLOG' Wetland Hydrolo Primary Indicator Surface Wate High Water Ta Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Vec Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillate	Y logy Indicators: rs (minimum of one reter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c Crust (B4) is (B5) l Cracks (B6) /isible on Aerial Image of the properties of th	gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	ates (B13) dodor (C1) cheres along Livin uced Iron (C4) uction in Tilled So ded Plants (D1) (L Remarks) Depth (inches): Depth (inches):	ng Roots (C3) ills (C6) .RR A)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image of Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	RA 1, 2, ery (C9)

Project/Site: Camas Heights		City/County	/: Camas/ Clark		Sampling Date	: 4/15/2021
Applicant/Owner: Lennar Northwest, Inc.			-	State: WA		Point: 6
Investigator(s): Stacey Reeed, PWS and So	onya Templeton	Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.,	, W.M.	
Landform (hillslope, terrace, etc.): Hillslope	oe .		Local relief (co	oncave, convex, none):	Concave	Slope (%): <3%
Subregion (LRR): A. Northwest Forests and	d Coast	Lat: 45.643511	Lor	ng:122.43951065	Datum	: <u> </u>
Soil Map Unit Name: Hockinson loa	nm (Unit HtA), 0% to 3%	% slopes; Hydric		NWI cl	lassification:	none
Are climatic / hydrologic conditions on the si				es X No		in in Remarks)
Are Vegetation	, or Hydrology	significantly dis	sturbed? A	re "Normal Circumstance	•	Yes X No
				f needed, explain any ans		•
SUMMARY OF FINDINGS – Attac	•		oint location	s, transects, impor	tant features	, etc.
Hydrophytic Vegetation Present?	Yes X	No	Is the Sampl	od Aroa		
Hydric Soil Present?	Yes X		within a Wet	land?		
Wetland Hydrology Present?	Yes X	No	Within a vice	Yes X	<u> No</u>	
Precipitation: According to the NWS Vancouver weather s	station, 0.00 inches of r	ainfall was received o	on the day of the	e site visit and 0.09 inches	s within the two v	veeks prior.
Remarks:						
Plot located in on-site lowest elevational are	a of wetland.					
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test wor	rksheet:	
Tree Stratum (Plot Size: 30' r or)	% Cover	Species?	<u>Status</u>	Number of Dominant		
1.				That Are OBL, FACW	, or FAC:	1 (A)
2.						
3.				Total Number of Dom	inant	
4				Species Across All St	rata:	1 (B)
		= Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' r or 1.	<u> </u>			Percent of Dominant S	•	1000/
2.				That Are OBL, FACW		<u>100%</u> (A/B)
3.				Prevalence Index wo Total % Cover of		
4.				OBL species 0		0
5.				FACW species 0		0
	0%	= Total Cover			5 x 3 =	255
Herb Stratum (Plot Size: 5' r or)				FACU species 0) x 4 =	0
Alopecurus pratensis	60%	Yes	FAC	UPL species 0	x 5 =	0
2. Schedonorus arundinaceus	10%	No	FAC	Column Totals: 85	5 (A)	255 (B)
3. Poa species	10%	No	FAC*	Prevalence Index	: = B/A =	3.00
4. Holcus lanatus	5%	No	FAC	Hydrophytic Vegetat		
5.				1 - Rapid Test for	, , , ,	jetation
6.				X 2 - Dominance Te		
7.				X 3 - Prevalence Inc		
8. 9.				4 - Morphological	Rdaptations (Pr ks or on a separa	
10.				5 - Wetland Non-\	• .	no sneet)
11.				Problematic Hydro		on (Explain) ¹
Woody Vine Stratum (Plot Size: 10' r or	85%	= Total Cover		¹ Indicators of hydric so	oil and wetland h	ydrology must
1.	_			·		
Bare Ground in Herb Stratum15 ^t		= Total Cover		Hydrophytic Vegetation Present?	Yes X No	
Remarks:						
*Assumed FAC.						

SOIL							Sampling Point:	6
Profile Descrip	tion (Describe to th	ne depth need	ed to document the	indicator or o	confirm the abs	ence of indicators	s):	
Depth	Matrix	x		Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	10YR 3/2	100					SiL	
3-16	10YR 3/2	90	7.5YR 3/4	10	С	М	SiCL	
	· <u> </u>		<u> </u>					
¹ Type: C=Conce	entration, D=Depletion	on, RM=Reduc	ed Matrix CS=Cover	ed or Coated S	and Grains.			
² Location: PL=P	ore Lining, M=Matrix	C .						
Hydric Soil Indi	cators (Applicable	to all LRRs, u	nless otherwise no	ted):		Indicators for	Problematic Hydric S	Soils ³ :
Histosol (A1)		Sandy Redox (S	5)		2 cm Muck	(A10)	
Histic Epipe	•	_	Stripped Matrix (•			it Material (TF2)	
Black Histic	(A3)	_	Loamy Mucky Mi	neral (F1) (exc	ept MLRA 1)	Very Shallo	ow Dark Surface (TF12	2)
Hydrogen S	ulfide (A4)	_	Loamy Gleyed M	atrix (F2)		Other (Exp	olain in Remarks)	
Depleted Be	elow Dark Surface (A	<u> </u>	Depleted Matrix (, ,			,	
	Surface (A12)	_	· X Redox Dark Surfa					
	xy Mineral (S1)	_	Depleted Dark Su				nydrophytic vegetation in t be present, unless dis	
	ed Matrix (S4)	_	Redox Depression	` ,		problematic.	t be present, unless dis	sturbed or
Restrictive Laye	. ,	_	<u> </u>			•		
Typ						Hudria Cail		
Depth (inches)						Hydric Soil Present?	Yes X	No
Deptil (illiches)	•					riesent:	Tes X	NO
HYDROLOG	v							
Wetland Hydrol								
-	rs (minimum of one i	required: check	(all that apply)			Secondary Indi	icators (2 or more requ	uired)
Surface Wat	-	oquirou, orioor	Water-Stained Le	- Naves (BQ) (evo	ent MI DA		ned Leaves (B9) (MLR	
High Water	, ,	_	1, 2, 4A, and 4	` , `	eptiviLivA	4A, and	. , .	Α 1, 2,
Saturation (A			Salt Crust (B11)	0)			Patterns (B10)	
Water Marks	,	_	Aquatic Invertebr	ates (R13)			n Water Table (C2)	
Sediment De	,	_	Hydrogen Sulfide			 ·	Visible on Aerial Image	any (CQ)
Drift Deposit	. ,	_	Oxidized Rhizosp	, ,	ving Poots (C3)		ic Position (D2)	ery (0 <i>9)</i>
Algal Mat or	` '	_	Presence of Red	·	vilig rtoots (00)		quitard (D3)	
Iron Deposit	` ,	_	Recent Iron Redu	` ,	Soils (C6)		ral Test (D5)	
	Cracks (B6)	_	Stunted or Stress		, ,		t Mounds (D6) (LRR A	1
	/isible on Aerial Imaç		X Other (Explain in	, ,	(LIXIVA)		ve Hummocks (D7)	,
	getated Concave Su		X Other (Explain III	rtomanto)			re rialilinooks (B1)	
Field Observation		11100 (00)				1		
			J. V	Danth /inahaa	Λ.	Matlemal		
Surface Water F			No X	Depth (inches		Wetland	, V Y	No
Water Table Pre		1 1		Depth (inches		Hydrology	/ Yes <u>X</u>	No
Saturation Prese (includes capilla		r	NO X	Depth (inches	3): > 16	Present?		
Describe Reco	rded Data (stream ç	gauge, monito	oring well, aerial ph	otos, previous	inspections), i	f available:		
Remarks:	hydrology procest s	luring the early	portion of the growi	ng coocan h	ad on presents	of budrio soils		
Assume Welldilu	nyarology present o	idining tile eally	portion of the grown	ing scasuli nasi	sa on presence	or riyuric solls.		

Project/Site: Camas Heights Applicant/Owner: Lennar Northwest, Inc. Investigator(s): Stacey Reeed, PWS and Sonya Temple Landform (hillslope, terrace, etc.): Hillslope Subregion (LRR): A. Northwest Forests and Coast	ton Lat:			State: <u>WA</u> e: <u>Sec. 21, T.2N., R.3E.,</u>		oint:	
Landform (hillslope, terrace, etc.): Hillslope Subregion (LRR): A. Northwest Forests and Coast		Section, T					
Subregion (LRR): A. Northwest Forests and Coast	Lat:		1 1 1! - 4 /				
	Lat:		Local relief (co	ncave, convex, none):	Convex	Slope (%):	~3%
Cail Man Linit Name. Linetinaan Jaan (Linit LitA)		45.643467	Lon	g: <u>-122.43908407</u>	Datum:		
Soil Map Unit Name: Hockinson loam (Unit HtA)	, 0% to 3% slope	es; Hydric		NWI cl	assification:	none	
Are climatic / hydrologic conditions on the site typical for			Ye		`		•
Are Vegetation	drologys	significantly dist	urbed? Ar	e "Normal Circumstances		Yes X	10
				needed, explain any ans		•	
SUMMARY OF FINDINGS – Attach site ma			int locations	s, transects, impor	tant features	, etc.	
			Is the Sample	nd Arna			
	No_		within a Wetla				
Wetland Hydrology Present? Yes	No_	<u> </u>	Within a vector	and? Yes	No	<u>x</u>	
Precipitation: According to the NWS Vancouver weather station, 0.00 in Remarks:	nches of rainfall	was received or	n the day of the	site visit and 0.09 inches	s within the two w	eeks prior.	
VEGETATION							
	bsolute	Dominant	Indicator	Dominance Test wor			
· · · · · · · · · · · · · · · · · · ·	<u>6 Cover</u>	Species?	<u>Status</u>	Number of Dominant			
1				That Are OBL, FACW	, or FAC:	2 (A)
3.							
4.				Total Number of Domi		0 (1	D)
<u> </u>		0		Species Across All Str	rata:	2 (B)
Sapling/Shrub Stratum(Plot Size: 10' r or)	0% = Total	Cover		Percent of Dominant S	Phonico		
1.					•	100%	Λ /D\
2.				That Are OBL, FACW Prevalence Index wo	, 01 1710.	10070 (A/B)
3.				Total % Cover of			
4.				OBL species 0	x 1 =	0	
5.				FACW species 0		0	_
	0% = Total	Cover			x 3 =	270	_
Herb Stratum (Plot Size: 5' r or)				FACU species 5	x 4 =	20	_
Alopecurus pratensis	40%	Yes	FAC	UPL species 0	x 5 =	0	_
Schedonorus arundinaceus	20%	Yes	FAC	Column Totals: 95	(A)	290	(B)
3. Holcus lanatus	15%	No	FAC	Prevalence Index	= B/A =	3.05	_
4. Poa species	15%	No	FAC*	Hydrophytic Vegetat	ion Indicators:		
5. Plantago lanceolata	5%	No	FACU	1 - Rapid Test for	Hydrophytic Veg	etation	
6.				X 2 - Dominance Te	st is >50%		
7				3 - Prevalence Inc	lex is ≤3.0 ¹		
8				4 - Morphological	Adaptations ¹ (Pro	ovide suppor	ting
9				data in Remark	s or on a separa	te sheet)	
10				5 - Wetland Non-\			
11				Problematic Hydro	. , .	` ' '	
Woody Vine Stratum (Plot Size: 10' r or) 1.	95% = Total	Cover		¹ Indicators of hydric so be present.	oil and wetland hy	drology mus	st .
2	0% = Total	Cover		Hydrophytic Vegetation Present?	Yes X No		
Remarks:							
*Assumed FAC							

SOIL					Sampling Point:	7
Profile Description (Description (Descriptio	ribe to the depth ne	eded to document the	e indicator or confirm f	the absence of indica	itors):	
Depth	Matrix		Redox Features			
(inches) Color (m	noist) %	Color (moist)	% Тур	pe ¹ Loc ²	Texture	Remarks
0-12 10YR	3/2 98	7.5YR 3/3	2 C	M	SiL	
12-14 10YR	3/2 85	7.5YR 4/6	15 C	M	SiCL	
	<u> </u>	<u> </u>			- — 	
		<u> </u>			<u> </u>	
		<u> </u>		<u> </u>	<u> </u>	
					_	
¹ Type: C=Concentration, D=		uced Matrix CS=Cover	red or Coated Sand Gra	ins.		
² Location: PL=Pore Lining,						
Hydric Soil Indicators (Ap	plicable to all LRRs	, unless otherwise no	ited):	Indicators	for Problematic Hydric So	ils³:
Histosol (A1)		Sandy Redox (St	5)	2 cm M	luck (A10)	
Histic Epipedon (A2)		Stripped Matrix (S6)		arent Material (TF2)	
Black Histic (A3)		· ·	ineral (F1) (except MLRA	, <u>—</u> ,	hallow Dark Surface (TF12)	
Hydrogen Sulfide (A4)		Loamy Gleyed M	latrix (F2)	Other (Explain in Remarks)	
Depleted Below Dark S	, ,	Depleted Matrix (. ,			
Thick Dark Surface (A1	•	Redox Dark Surfa	` ,	³ Indicators	of hydrophytic vegetation an	nd wetland
Sandy Mucky Mineral (\$	•	Depleted Dark St	, ,	hydrology n	must be present, unless distu	
Sandy Gleyed Matrix (S	·4)	Redox Depression	ons (F8)	problematio). — —————	
Restrictive Layer (if prese	nt):					
Type:				Hydric Soi	d	
Depth (inches):				Present?	Yes	No X
Remarks:						
HYDROLOGY						
Wetland Hydrology Indica						
Primary Indicators (minimun	n of one required; che	- \				
Surface Water (A1)			-	-	Indicators (2 or more require	
		Water-Stained Le	- eaves (B9) (except MLR.	A Water-S	Stained Leaves (B9) (MLRA	
High Water Table (A2)		Water-Stained Le	, , , .	A Water-\$	Stained Leaves (B9) (MLRA and 4B)	
Saturation (A3)		Water-Stained Le	4B)	A Water-S 4A, a Drainag	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10)	
Saturation (A3) Water Marks (B1)		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr	4B) rates (B13)	Water-s 4A, a Drainaç Dry-Se:	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) ason Water Table (C2)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	1	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide	rates (B13) e Odor (C1)	AWater-{ 4A, aDrainagDry-SeaSaturat	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagen	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp	rates (B13) e Odor (C1) pheres along Living Roo	Mater-5 4A, a Draina Dry-Se Saturat ts (C3) Geomo	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagen orphic Position (D2)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red	rates (B13) e Odor (C1) pheres along Living Root luced Iron (C4)	Mater-1 4A, a Drainag Dry-Sea Saturat ats (C3) Geomo	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imager orphic Position (D2) w Aquitard (D3)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red	rates (B13) e Odor (C1) pheres along Living Root duced Iron (C4) uction in Tilled Soils (C6	Water-S 4A, a Drainag Dry-Sea Saturat ts (C3) Geomo Shallow FAC-No	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) leason Water Table (C2) tion Visible on Aerial Imager orphic Position (D2) w Aquitard (D3) eutral Test (D5)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	3)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	rates (B13) e Odor (C1) pheres along Living Root luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A)	Mater-S 4A, a Drainag Dry-Sea Saturat ats (C3) Geomo Shallow FAC-No	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ad	6) erial Imagery (B7)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red	rates (B13) e Odor (C1) pheres along Living Root luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A)	Mater-S 4A, a Drainag Dry-Sea Saturat ats (C3) Geomo Shallow FAC-No	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) leason Water Table (C2) tion Visible on Aerial Imager orphic Position (D2) w Aquitard (D3) eutral Test (D5)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	6) erial Imagery (B7)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	rates (B13) e Odor (C1) pheres along Living Root luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A)	Mater-S 4A, a Drainag Dry-Sea Saturat ats (C3) Geomo Shallow FAC-No	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ad	6) erial Imagery (B7)	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress	rates (B13) e Odor (C1) pheres along Living Root luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A)	Mater-S 4A, a Drainag Dry-Sea Saturat ats (C3) Geomo Shallow FAC-No	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ac	6) erial Imagery (B7) ncave Surface (B8) Yes	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redi Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Root luced Iron (C4) uction in Tilled Soils (C6 sed Plants (D1) (LRR A) in Remarks) Depth (inches):	A Water-S 4A, a Drainag Dry-Se: Saturat ts (C3) Geomo Shallow FAC-No Raised Frost-H	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) asson Water Table (C2) tion Visible on Aerial Imagery orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Action Sparsely Vegetated Col	6) erial Imagery (B7) ncave Surface (B8) Yes Yes	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Root duced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) n Remarks)	A Water-S 4A, a Drainag Dry-Se: Saturat ts (C3) Geomo Shallow FAC-No Raised Frost-H	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagen orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)	. 1, 2,
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ac Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present?	6) erial Imagery (B7) ncave Surface (B8) Yes	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Root luced Iron (C4) uction in Tilled Soils (C6 sed Plants (D1) (LRR A) in Remarks) Depth (inches):	Water-1 4A, a Drainag Dry-Se: Saturat ts (C3) FAC-No Raised Frost-H Wetlan Hydrol	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagen orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)	y (C9)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ac Sparsely Vegetated Col Field Observations: Surface Water Present?	6) erial Imagery (B7) ncave Surface (B8) Yes Yes	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Red Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Root luced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) n Remarks) Depth (inches):	Water-1 4A, a Drainag Dry-Se: Saturat ts (C3) FAC-No Raised Frost-H Wetlan Hydrol	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagen orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)	y (C9)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ac Sparsely Vegetated Col Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	erial Imagery (B7) ncave Surface (B8) Yes Yes Yes Yes	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redi Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Root duced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) n Remarks) Depth (inches): Depth (inches): > 1 Depth (inches): > 1	Water-5 4A, a Drainag Dry-Se: Saturat sts (C3) Geomo Shallow FAC-No Raised Frost-H Wetlan Hydrol 4" Presen	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagen orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)	y (C9)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ac Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present?	erial Imagery (B7) ncave Surface (B8) Yes Yes Yes Yes	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redi Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Root duced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) n Remarks) Depth (inches): Depth (inches): > 1 Depth (inches): > 1	Water-5 4A, a Drainag Dry-Se: Saturat sts (C3) Geomo Shallow FAC-No Raised Frost-H Wetlan Hydrol 4" Presen	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagen orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)	y (C9)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ac Sparsely Vegetated Col Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	erial Imagery (B7) ncave Surface (B8) Yes Yes Yes Yes	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redi Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Root duced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) n Remarks) Depth (inches): Depth (inches): > 1 Depth (inches): > 1	Water-5 4A, a Drainag Dry-Se: Saturat sts (C3) Geomo Shallow FAC-No Raised Frost-H Wetlan Hydrol 4" Presen	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagen orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)	y (C9)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ac Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (erial Imagery (B7) ncave Surface (B8) Yes Yes Yes Yes	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redi Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Root duced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) n Remarks) Depth (inches): Depth (inches): > 1 Depth (inches): > 1	Water-5 4A, a Drainag Dry-Se: Saturat sts (C3) Geomo Shallow FAC-No Raised Frost-H Wetlan Hydrol 4" Presen	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagen orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)	y (C9)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ac Sparsely Vegetated Co Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Remarks:	erial Imagery (B7) ncave Surface (B8) Yes Yes Yes Yes	Water-Stained Le 1, 2, 4A, and 4 Salt Crust (B11) Aquatic Invertebr Hydrogen Sulfide Oxidized Rhizosp Presence of Redi Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) e Odor (C1) pheres along Living Root duced Iron (C4) uction in Tilled Soils (C6) sed Plants (D1) (LRR A) n Remarks) Depth (inches): Depth (inches): > 1 Depth (inches): > 1	Water-5 4A, a Drainag Dry-Se: Saturat sts (C3) Geomo Shallow FAC-No Raised Frost-H Wetlan Hydrol 4" Presen	Stained Leaves (B9) (MLRA and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagen orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)	y (C9)

Project/Site: Camas Heights		City/County	/: Camas/ Clark		Sampling Date:	4/14/2	021
Applicant/Owner: Lennar Northwest, Inc.				State: WA		Point:	8
Investigator(s): Stacey Reeed, PWS and	Sonya Templeton	Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.	, W.M.		
Landform (hillslope, terrace, etc.): hillslo	ope		Local relief (co	oncave, convex, none):	concave	Slope (%):	<3%
Subregion (LRR): A. Northwest Forests a	and Coast	Lat: 45.643537	Lor	ng: <u>-122.43920506</u>	Datum:		
Soil Map Unit Name: Hockinson	oam (Unit HtA), 0% to 3	% slopes; Hydric		NWI c	lassification:	none	
Are climatic / hydrologic conditions on the				es X No	(If no, explai		•
Are Vegetation , Soil,	, or Hydrology , or Hydrology	significantly dis	sturbed? A	re "Normal Circumstance	•	Yes X N	10
				f needed, explain any ans		,	
SUMMARY OF FINDINGS – Atta			oint location	s, transects, impor	tant features	, etc.	
Hydrophytic Vegetation Present?	Yes X		Is the Sampl	lod Aroa			
Hydric Soil Present?	Yes X		within a Wet	land?			
Wetland Hydrology Present?	Yes X	No	*************************************	Yes X	(No		
Precipitation: According to the NWS Vancouver weather	r station, 0.00 inches of	rainfall was received	on the day of the	e site visit and 0.09 inche	s within the two w	eeks prior.	
Remarks:							
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test wo			
Tree Stratum (Plot Size: 30' r or)	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species		
1.				That Are OBL, FACW	, or FAC:	2 (A)
2.							
3.		<u> </u>		Total Number of Dom			
4.		· 		Species Across All St	rata:	2 (1	В)
Sapling/Shrub Stratum(Plot Size: 10' r or	0%	= Total Cover		Danaget of Danis aut	Cassias		
1.	<u>_</u>			Percent of Dominant	•	100%	A /D)
2.				That Are OBL, FACW Prevalence Index wo		10070 (7	A/B)
3.				Total % Cover of			
4.				OBL species) x 1 =	0	
5.				FACW species 3	x 2 =	6	
	0%	= Total Cover		FAC species 9	0 x 3 =	270	
Herb Stratum (Plot Size: 5' r or)		•		FACU species 0	x 4 =	0	
Alopecurus pratensis	60%	Yes	FAC	UPL species (x 5 =	0	
2. Schedonorus arundinaceus	20%	Yes	FAC	Column Totals: 9	3 (A)	276	(B)
3. Poa species	10%	No	FAC*	Prevalence Index	: = B/A =	<u>2.97</u>	
4. Phalaris arundinacea	3%	No	FACW	Hydrophytic Vegeta			
5.				1 - Rapid Test for	, , , ,	etation	
6.		· —		X 2 - Dominance Te			
7.		· —		X 3 - Prevalence Inc			
8. 9.		· —		4 - Morphological	Ks or on a separa		ting
10.		· —		5 - Wetland Non-	•	te sneet)	
11.				Problematic Hydr		n (Evnlain) ¹	
····	93%	= Total Cover		¹ Indicators of hydric s	. , .	` ' '	et .
Woody Vine Stratum (Plot Size: 10' r or		- Total Gover		be present.	on and wedand n	yarology mas	,
1.		. <u> </u>		·			
2	0%	= Total Cover			Yes X No		
% Bare Ground in Herb Stratum	7%			Present?			
Remarks:				•			
*Assumed FAC.							

SOIL							Sampling Point:	8
Profile Descrip	tion (Describe to th	e depth need	led to document the	indicator or o	confirm the abs	ence of indicators	s):	
Depth	Matrix	<		Redox F	eatures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-5	10YR 3/2	100					SiL	
5-11	10YR 3/2	95	5YR 3/4	5	С	M/ PL	SiCL	
11-14	10YR 3/2	85	7.5YR 4/4	15	С	M	SiCL	
_ * '	· ·		ed Matrix CS=Cover	ed or Coated S	and Grains.			
² Location: PL=P	ore Lining, M=Matrix	(.						
Hydric Soil Indi	cators (Applicable	to all LRRs, ι	ınless otherwise no	ted):		Indicators for	Problematic Hydric S	Soils ³ :
Histosol (A1)	_	Sandy Redox (S5	5)		2 cm Muck	(A10)	
Histic Epipe	don (A2)	_	Stripped Matrix (S	S6)		Red Paren	t Material (TF2)	
Black Histic	(A3)	_	Loamy Mucky Mi	, , ,	ept MLRA 1)		ow Dark Surface (TF12	2)
Hydrogen S	` '	_	Loamy Gleyed M	atrix (F2)		Other (Exp	lain in Remarks)	
	elow Dark Surface (A	.11)	Depleted Matrix (F3)				
	Surface (A12)	_	X Redox Dark Surfa	` '		³ Indicators of h	ydrophytic vegetation	and wetland
_ ′	ky Mineral (S1)	_	Depleted Dark Su	• ,			t be present, unless dis	sturbed or
Sandy Gley	ed Matrix (S4)	-	Redox Depressio	ns (F8)		problematic.		
Restrictive Laye	er (if present):							
Тур	e:					Hydric Soil		
Depth (inches)	:					Present?	Yes X	No
Remarks:					ı			
HYDROLOG								
Wetland Hydrol								
	rs (minimum of one i	equired; chec	k all that apply)	-		Secondary Ind	icators (2 or more requ	<u>ired)</u>
Surface Wa	, ,	_	Water-Stained Le	. , ,	ept MLRA		ned Leaves (B9) (MLR	A 1, 2,
High Water			1, 2, 4A, and 4	B)		4A, and	4B)	
Saturation (,	_	Salt Crust (B11)				Patterns (B10)	
Water Marks	, ,	_	Aquatic Invertebr				n Water Table (C2)	
_	eposits (B2)	_	Hydrogen Sulfide	, ,			Visible on Aerial Image	ery (C9)
Drift Deposit	` '	_	Oxidized Rhizosp	·	ving Roots (C3)		ic Position (D2)	
Algal Mat or	, ,	_	Presence of Red	` ,	2 11 (00)		quitard (D3)	
Iron Deposit	, ,	_	Recent Iron Redu		, ,		ral Test (D5)	
—	Cracks (B6)		Stunted or Stress	, ,	(LRR A)		t Mounds (D6) (LRR A)	
	/isible on Aerial Imag	_	X Other (Explain in	Remarks)		Frost-Heav	e Hummocks (D7)	
	getated Concave Su	іпасе (ва)						
Field Observati								
Surface Water F			No X	Depth (inches		Wetland		
Water Table Pre				Depth (inches		Hydrology	Yes X	No
Saturation Pres			No X	Depth (inches	s): <u>> 14"</u>	Present?		
(includes capilla	ny ninge <i>)</i>							
Describe Reco	rded Data (stream o	gauge, monit	oring well, aerial ph	otos, previous	inspections), i	f available:		
	•				. ,,			
Remarks:								
Soils slightly moi soils.	ıst. Assumed wetland	d hydrology pr	esent during the earl	y portion of the	growing season	within a normal ra	infall period based on	presence of hydric

Project/Site: Camas Heights		City/County	/: Camas/ Clark		Sampling Date:	: 4/14/2	2021
Applicant/Owner: Lennar Northwest, Inc.	-			State: WA		Point:	9
Investigator(s): Stacey Reeed, PWS and	Sonya Templeton	Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.	, W.M.		
Landform (hillslope, terrace, etc.): Hillsl	lope		Local relief (co	oncave, convex, none):	Concave	Slope (%):	<3%
Subregion (LRR): A. Northwest Forests a	and Coast	Lat: 45.643638		ng: <u>-122.43884397</u>		_	
Soil Map Unit Name: Hockinson I	oam (Unit HtA), 0% to 3°	% slopes; Hydric	_	· · · · · · · · · · · · · · · · · · ·	lassification:	none	
Are climatic / hydrologic conditions on the				es X No	(If no, expla	in in Remark	s)
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly dis	sturbed? A	re "Normal Circumstance	•	Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally proble	ematic? (I	f needed, explain any ans	wers in Remarks	s.)	
SUMMARY OF FINDINGS - Att	ach site map show	ing sampling po	oint location	ıs, transects, impor	tant features	, etc.	
Hydrophytic Vegetation Present?	Yes X	No					
Hydric Soil Present?	Yes X	No	Is the Sampl				
Wetland Hydrology Present?	Yes X	No	within a Wet	tland? Yes X	C No		
Precipitation: According to the NWS Vancouver weathe Remarks:	r station, 0.00 inches of r	rainfall was received o	on the day of the	e site visit and 0.09 inche	s within the two w	veeks prior.	
Plot is about 6 inches lower than plot 10.							
VEGETATION			1 12 4				
Tree Stratum (Plot Size: 30' r or)	Absolute <u>% Cover</u>	Dominant Species?	Indicator	Dominance Test wo Number of Dominant			
1.	<u> </u>	Species?	<u>Status</u>	That Are OBL, FACW		2 (A)
2. 3.							
4.				Total Number of Dom			
4				Species Across All St	rata:	2 (B)
O and line of Others to the Advance of Other Advance of Others and		= Total Cover					
Sapling/Shrub Stratum (Plot Size: 10' r or 1.	<u> </u>			Percent of Dominant	•	1000/	
2.				That Are OBL, FACW		<u>100%</u> (,	A/B)
3.				Prevalence Index wo Total % Cover of			
-							
4 5.					x 1 =	0	_
5. <u> </u>		T-1-1-0				10	
Herb Stratum (Plot Size: 5' r or)	0%	= Total Cover			5 x 3 =) x 4 =	285 0	
	600/	Vaa	FAC	·	x 5 =	0	_
Alopecurus pratensis Poa species	60% 30%	Yes Yes	FAC*	Column Totals: 10		295	(B)
Schedonorus arundinaceus	5%	No	FAC	Prevalence Index	• /	2.95	_(_)
Phalaris arundinacea	5%	No	FACW	Hydrophytic Vegeta			
5.	370	140	TAOW	1 - Rapid Test for		etation	
6.				X 2 - Dominance Te	, , , ,	,	
7.				X 3 - Prevalence Inc	dex is ≤3 0 ¹		
8.				4 - Morphological		ovide suppor	rtina
9.					ks or on a separa		9
10.				5 - Wetland Non-	• .	,	
11.				Problematic Hydr	ophytic Vegetatio	on (Explain) ¹	
Woody Vine Stratum (Plot Size: 10' r or		= Total Cover		¹ Indicators of hydric s be present.	oil and wetland h	ydrology mus	st
1. 2.				Hydrophytic			
% Bare Ground in Herb Stratum	0%	= Total Cover		Vegetation Present?	Yes X No		
Remarks:							
*Assumed FAC.							

10/18/31/2 100 5/18/31/3 5 C M/ PL SICL	oling Point: 9
Color (moist) % Color (moist) % Type ¹ Loc ² Textus O-4 10 N 3/2 100 SIL 4-9 10 N 3/2 95 5 YR 3/3 5 C M/ PL SICL 9-16 10 YR 3/2 90 SYR 3/4 10 C M SICL 9-16 10 YR 3/2 90 SYR 3/4 10 C M SICL SICL SICL M SICL SICL M SICL SICL M SI	
0.44	
4-9	Texture Remarks
9-16 10YR 3/2 90 SYR 3/4 10 C M SICL Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains. Histosol (A1) Sandy Redox (S5) Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A2) Stripped Matrix (S6) Red Grains Miles (F1) (except MLRA 1) Yery Shallow Dark Surf Grain Miles (A2) Cotten (S2) Stripped Matrix (F3) Thick Dark Surface (A1) Depleted Matrix (F3) Depleted Matrix (F3) Thick Dark Surface (A1) Depleted Matrix (F3) Thick Dark Surface (A1) Depleted Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Prosent? Restrictive Layer (if present): Type: Deplt (inches): Hydric Soil Present? Yes Surface (F8) Salt Craut (S1) Dark (S1) Salt Craut (S1) Dark (S1) Present? Yes Surface (Matrix (S1) Dark	SiL
Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains. The Coate of Coated Sand Grains The Coated Sand Sand Sand Sand Sand Sand Sand San	SiCL
**Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1)Sandy Redox (S5) 2 cm Muck (A10) Red Parent Material (Ti Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surf Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Other (Explain in Rema Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Redox Dark Surface (F6) 3 indicators of hydrophytic work hydrology must be present, problematic. **Restrictive Layer (if present):	SiCL
Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1) Sandy Redox (S5)	
**Pubmediate Pubmediate Soli Indicators (Applicable to all LRRs, unless otherwise noted): Histocol (A1)	
**Pubmediate Pubmediate Soli Indicators (Applicable to all LRRs, unless otherwise noted): Histocol (A1)	
**Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1)Sandy Redox (S5) 2 cm Muck (A10) Red Parent Material (Ti Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surf Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Other (Explain in Rema Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Redox Dark Surface (F6) 3 indicators of hydrophytic work hydrology must be present, problematic. **Restrictive Layer (if present):	
**Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1)Sandy Redox (S5) 2 cm Muck (A10) Red Parent Material (Ti Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surf Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F3) Other (Explain in Rema Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Redox Dark Surface (F6) 3 indicators of hydrophytic work hydrology must be present, problematic. **Restrictive Layer (if present):	
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1) Histosol (A2) Stripped Matrix (S6) Histo Epipedon (A2) Stripped Matrix (S6) Back Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (F2) Thick Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F2) Depleted Bark Surface (F7) Nydrology must be present, problematic. Restrictive Layer (if present): Type: Depth (inches): Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of one required; check all that apply) Self matrix (F3) Saturation (A3) Salt Crust (B11) Water Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Sediment Deposits (B3) Aquatic Invertebrates (B13) Derivage Patterns (B10) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation (C4) Agaic Mark (B4) Presence of Reduced Iron (C4) Saurface Soil Cracks (B6) Surface Soil	
Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surf August (A10) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Present? Yes Restrictive Layer (if present): Type: Depth (inches): Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of one required; check all that apply) Secondary Indicators (Matrix (B1) Saluration (A3) Salt Crust (B11) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Present or Recent Iron Reduction in Tilled Soils (C6) Saluration (X3) Salt Crust (B11) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Saluration (X3) Salt Crust (B11) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Frost-Heave Hummock Sparsely Vegetated Concave Surface (B8) Frost-Heave Hummock Water Table Present? Yes No X Depth (Inches): Surface Water Present? Yes No X Depth (Inches): Versence Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Thick Dark Surface (A12) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or 1 Surface Water (A1) Water Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Sediment Deposits (B2) Drif Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Jennal Mat or Crust (B4) Iron Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Jennal Mater (Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Other (Explain in Reman	matic Hydric Soils*:
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surf Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Rema Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Hydrology must be present, problematic. Restrictive Layer (if present): Type: Depth (inches): Pepth (inches): Permary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation (Visible on Aerial Imagery (B7) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): 16' Present? Wetland Hydrology Indicators: Wetland Hydrology Indicators: Water Marks (B1) Sediment Deposits (B3) Shallow Aquitand (D3) Sediment Deposits (B3) Oxidized Odor (C1) Saturation (Visible on Aerial Imagery (B7) Shallow Aquitand (D3) Iron Deposits (B3) Surface Odor (C1) Shallow Aquitand (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Frost-Heave Hummock Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): 16' Present? Wetland Hydrology Yes Present? Wetland Hydrology Indicators (B1) Water Table Present? Yes No X Depth (inches): 16' Present? Wetland Hydrology Yes Present? Wetland Hydrology Yes Present? Wetland Hydrology Tes	
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) X Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Pepleted Dark Surface (F7) Redox Depressions (F8) Present? Type: Depth (inches): Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) Saturation (A3) Salt Crust (B11) Saturation (A3) Salt Crust (B11) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soli Cracks (B6) Indicators (B7) Secondary Indicators (2 or 1 or	` '
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Present; Restrictive Layer (if present): Type: Depth (inches): Primary Indicators (minimum of one required; check all that apphy) Surface Water (A1) Salturation (A3) Salturat	` ,
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Redox Dark Surface (F7)	Remarks)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) hydrology must be present, problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes_ Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Hydrology Indicators (2 or 1) A4, and 4B) Saturation (A3) Sait Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Act Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (C4) Iron Deposits (B3) Acquation (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) X FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunded or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): > 16" Wetland Water Table Present? Yes No X Depth (inches): > 16" Wetland Hydrology Yes_ Present? Wetland Hydrology Yes_ Present? Wetland Hydrology Yes_ Present?	
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Injudicy into the problematic. Restrictive Layer (if present):	, .
Restrictive Layer (if present):	sent, unless disturbed or
Type:	
Depth (inches): Present? Yes	
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Driniage Patterns (B10 Water Marks (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Ac Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Inon Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Yes Present? Wetland Hydrology Yes Present? Present? Present? Present? Present? Present? Present? Present? Present?	V V N-
### Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Yes X No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or Indicators	
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Surface Water (A1) High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Water-Stained Leaves (B9) (except MLRA 4A, and 4B) Drainage Patterns (B10) Atpains (B11) Drainage Patterns (B10) Dry-Season Water Table Dry-Season Water Table Passen Water Table Present? Yes No X Depth (inches): Wetland Hydrology Yes Present? Wetland Hydrology Yes Present? Present? Present? Present? Present?	(2 or more required)
High Water Table (A2) Saturation (A3) Salt Crust (B11) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Algan (AB) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Dry-Season Water Table Present (C1) Saturation Visible on Aerial Imagery (B7) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (C2) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Stunted or Stressed Plants (D1) (LRR A) Reised Ant Mounds (D6) Frost-Heave Hummocks Frost-Heave Hummocks Wetland Hydrology Yes Saturation Present? Yes No X Depth (inches): Stunted or Stressed Plants (D1) Frost-Heave Hummocks Present? Wetland Hydrology Yes Present? Present? Present? Present?	
Saturation (A3) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	, , , , , , , , , , , , , , , , , , ,
Water Marks (B1) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Ae Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Set Inches (B7) Present? Present? Present? Present? Present? Present? Present? Present? Present?	; (B10)
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Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Present? Present? Present?	• • • • •
Iron Deposits (B5)	
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes N	
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes NoX Depth (inches): Wetland Water Table Present? Yes NoX Depth (inches): 16" Hydrology Yes Saturation Present? Yes NoX Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): > 16" Hydrology Yes Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	mocks (D7)
Surface Water Present? Yes No X Depth (inches): Hydrology Yes Saturation Present? Yes No X Depth (inches): > 16" Hydrology Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Water Table Present? Yes No X Depth (inches): > 16" Hydrology Yes Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	-
Water Table Present? Yes No X Depth (inches): > 16" Hydrology Yes Saturation Present? Yes No X Depth (inches): > 16" Present? Cincludes capillary fringe) Present? Present? Present?	
Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	
1	

Project/Site: Camas Heights		Citv/County	y: Camas/ Clark		Sampling Date:	4/14/2021
Applicant/Owner: Lennar Northwest, Ir	nc.			State: WA	Sampling P	
Investigator(s): Stacey Reeed, PWS ar		Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.,		
Landform (hillslope, terrace, etc.): Hil	Islope			oncave, convex, none):		Slope (%): <3%
Subregion (LRR): A. Northwest Forests		Lat: 45.643595		ng: -122.4387724		
Soil Map Unit Name: Hockinson	n loam (Unit HtA), 0% to 3	% slopes; Hydric	_	·	lassification:	none
Are climatic / hydrologic conditions on the				es X No	(If no, explain	n in Remarks)
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly dis	sturbed? A	re "Normal Circumstance:	•	Yes X No
				f needed, explain any ans		•
SUMMARY OF FINDINGS - A			oint location	s, transects, impor	tant features,	etc.
Hydrophytic Vegetation Present?	Yes X		Is the Sampl	lad Araa		
Hydric Soil Present?	Yes		within a Wet	Jan 40		
Wetland Hydrology Present?	Yes	No <u>X</u>	Within a Wet	Yes	No	
Precipitation: According to the NWS Vancouver weath Remarks:	ner station, 0.00 inches of	rainfall was received	on the day of the	e site visit and 0.09 inches	s within the two w	eeks prior.
VEGETATION						
Trac Stratum (Diet Size, 201 r. er	Absolute	Dominant	Indicator	Dominance Test wor		
Tree Stratum (Plot Size: 30' r or 1.) % Cover	<u>Species?</u>	<u>Status</u>	Number of Dominant		2 (4)
2.				That Are OBL, FACW	, 01 FAC	2 (A)
3.				Total Number of Domi	inant	
4.				Species Across All St		2 (B)
-	0%	= Total Cover		opeoles / toross / tir oti		(B)
Sapling/Shrub Stratum (Plot Size: 10' r		10101 00101		Percent of Dominant S	Species	
1.	<u>-</u>			That Are OBL, FACW	•	<u>100%</u> (A/B)
2.				Prevalence Index wo		(. 4.2)
3.				Total % Cover of		
4.				OBL species 0) x 1 =	0
5.				FACW species 0	x 2 =	0
	0%	= Total Cover		FAC species 10	00 x 3 =	300
Herb Stratum (Plot Size: 5' r or	<u> </u>			FACU species 0	x 4 =	0
Schedonorus arundinaceus	50%	Yes	FAC	UPL species 0	x 5 =	0
2. Alopecurus pratensis	40%	Yes	FAC	Column Totals: 10	00 (A)	300 (B)
3. Poa species	10%	No	FAC*	Prevalence Index	= B/A =	<u>3.00</u>
4				Hydrophytic Vegetat		
5				1 - Rapid Test for	, , , ,	etation
6.				X 2 - Dominance Te	st is >50%	
7				X 3 - Prevalence Inc		
8.				4 - Morphological		
9.					ks or on a separat	.e sheet)
10.				5 - Wetland Non-\		/=1
11				Problematic Hydro		
Woody Vine Stratum (Plot Size: 10' r or 1.		= Total Cover		¹ Indicators of hydric so be present.	oil and wetland hy	drology must
2. % Bare Ground in Herb Stratum		= Total Cover		Hydrophytic Vegetation Present?	Yes X No	
Remarks:						
*Assumed FAC.						

SOIL						Sampling Point:	10
Profile Description (De	escribe to the d	lepth needed to document	the indicator or co	nfirm the abse	nce of indicators	i):	
Depth	Matrix		Redox Fea	atures			
(inches) Colo	or (moist)	% Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4 10	YR 3/2	100	·			SiL	
4-14 10	YR 3/2	98 7.5YR 3/3	2	С	M	SiCL	
			<u> </u>				
			<u> </u>				
			<u> </u>				
, , ,		RM=Reduced Matrix CS=Cov	vered or Coated Sar	nd Grains.			
² Location: PL=Pore Lini	ng, M=Matrix.						
Hydric Soil Indicators ((Applicable to a	all LRRs, unless otherwise	noted):		Indicators for	Problematic Hydric So	oils³:
Histosol (A1)		Sandy Redox	(S5)		2 cm Muck	(A10)	
Histic Epipedon (A2	.)	Stripped Matrix	x (S6)		Red Parent	t Material (TF2)	
Black Histic (A3)		Loamy Mucky	Mineral (F1) (excep	t MLRA 1)	Very Shallo	ow Dark Surface (TF12)	
Hydrogen Sulfide (A	4 4)	Loamy Gleyed	Matrix (F2)		Other (Expl	lain in Remarks)	
Depleted Below Dar	rk Surface (A11)	Depleted Matri	ix (F3)				
Thick Dark Surface	(A12)	Redox Dark Su	urface (F6)		³ Indicators of h	ydrophytic vegetation ar	nd wetland
Sandy Mucky Miner	, ,	Depleted Dark	, ,			be present, unless dist	
Sandy Gleyed Matri	x (S4)	Redox Depres	sions (F8)		problematic.	•	
Restrictive Layer (if pre	esent):						
Type:		_			Hydric Soil		
Depth (inches):					Present?	Yes	No X
Remarks:				<u> </u>			
HYDROLOGY							
HTDROLOGT Wetland Hydrology Ind	liantore:						
		uired; check all that apply)				aatara (2 ar mara raquir	
	•				Secondary India		od)
Surface Water (A1)			' (DO) (ayaan	· 14 DA	Secondary India	•	_
High Water Table (A Saturation (A3)	12)		Leaves (B9) (excep	ot MLRA	Water-Stair	ned Leaves (B9) (MLRA	_
Saturation (A3) Water Marks (B1)		1, 2, 4A, and	d 4B)	ot MLRA	Water-Stair	ned Leaves (B9) (MLRA 4B)	_
Walti Maika (Di)		1, 2, 4A, and Salt Crust (B1	d 4B) 1)	ot MLRA	Water-Stair 4A, and 4 Drainage P	ned Leaves (B9) (MLRA 4B) atterns (B10)	_
	(DO)	1, 2, 4A, and Salt Crust (B1 Aquatic Inverte	d 4B) 1) ebrates (B13)	ot MLRA	Water-Stair 4A, and 4 Drainage P Dry-Seasor	ned Leaves (B9) (MLRA 4B) atterns (B10) n Water Table (C2)	v 1, 2,
Sediment Deposits	(B2)	1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulf	d 4B) 1) ebrates (B13) îde Odor (C1)		Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation	ned Leaves (B9) (MLRA 4B) latterns (B10) n Water Table (C2) Visible on Aerial Imager	v 1, 2,
Sediment Deposits (Drift Deposits (B3)	. ,	1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulf	d 4B) 1) ebrates (B13) ide Odor (C1) ospheres along Livir		Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation \ Geomorphi	ned Leaves (B9) (MLRA 4B) atterns (B10) n Water Table (C2) Visible on Aerial Imager c Position (D2)	v 1, 2,
Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (B	. ,	1, 2, 4A, and Salt Crust (B1) Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	d 4B) 1) ebrates (B13) ide Odor (C1) ospheres along Livir educed Iron (C4)	ng Roots (C3)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphi Shallow Aq	ned Leaves (B9) (MLRA 4B) atterns (B10) n Water Table (C2) Visible on Aerial Imager c Position (D2) uitard (D3)	v 1, 2,
Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (Incomplete (B5)	B4)	1, 2, 4A, and Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro	d 4B) 1) ebrates (B13) ide Odor (C1) espheres along Livir educed Iron (C4) eduction in Tilled So	ng Roots (C3) bils (C6)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation Geomorphi Shallow Aq FAC-Neutra	ned Leaves (B9) (MLRA 4B) atterns (B10) n Water Table (C2) Visible on Aerial Imager c Position (D2) uitard (D3) al Test (D5)	v 1, 2,
Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks	B4)	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhize Presence of Re Recent Iron Re Stunted or Stre	d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L	ng Roots (C3) bils (C6)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphi Shallow Aq FAC-Neutra Raised Ant	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) juitard (D3) al Test (D5) Mounds (D6) (LRR A)	v 1, 2,
Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of	B4) s (B6) n Aerial Imagery	1, 2, 4A, and Salt Crust (B1) Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ri Recent Iron Re Stunted or Stre ((B7) Other (Explain	d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L	ng Roots (C3) bils (C6)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphi Shallow Aq FAC-Neutra Raised Ant	ned Leaves (B9) (MLRA 4B) atterns (B10) n Water Table (C2) Visible on Aerial Imager c Position (D2) uitard (D3) al Test (D5)	v 1, 2,
Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated	B4) s (B6) n Aerial Imagery	1, 2, 4A, and Salt Crust (B1) Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ri Recent Iron Re Stunted or Stre ((B7) Other (Explain	d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L	ng Roots (C3) bils (C6)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphi Shallow Aq FAC-Neutra Raised Ant	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) juitard (D3) al Test (D5) Mounds (D6) (LRR A)	v 1, 2,
Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations:	B4) s (B6) n Aerial Imagery l Concave Surfac	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhize Presence of Re Recent Iron Re Stunted or Stre ((B7) Other (Explain ce (B8)	d 4B) 1) ebrates (B13) fide Odor (C1) ospheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L	ng Roots (C3) bils (C6) _RR A)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) juitard (D3) al Test (D5) Mounds (D6) (LRR A)	v 1, 2,
Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (In Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present?	B4) 5 (B6) In Aerial Imagery Concave Surface Yes	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhize Presence of Re Recent Iron Re Stunted or Stre ((B7) Other (Explain on the company of the compa	d 4B) 1) ebrates (B13) fide Odor (C1) espheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L in Remarks) Depth (inches):	ng Roots (C3) bils (C6) LRR A)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V Geomorphi Shallow Aq FAC-Neutra Raised Ant	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) juitard (D3) al Test (D5) Mounds (D6) (LRR A)	v 1, 2,
Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present?	B4) s (B6) in Aerial Imagery Concave Surface Yes Yes	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ri Recent Iron Re Stunted or Stre ((B7) Other (Explain ce (B8)	d 4B) 1) ebrates (B13) ide Odor (C1) espheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L in Remarks) Depth (inches): Depth (inches):	ng Roots (C3) bils (C6) LRR A)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) luitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	. 1, 2,
Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present?	B4) s (B6) in Aerial Imagery Concave Surface Yes Yes Yes Yes	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhize Presence of Re Recent Iron Re Stunted or Stre ((B7) Other (Explain on the company of the compa	d 4B) 1) ebrates (B13) fide Odor (C1) espheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L in Remarks) Depth (inches):	ng Roots (C3) bils (C6) LRR A)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) luitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	y (C9)
Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present?	B4) s (B6) in Aerial Imagery Concave Surface Yes Yes Yes Yes	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ri Recent Iron Re Stunted or Stre ((B7) Other (Explain ce (B8)	d 4B) 1) ebrates (B13) ide Odor (C1) espheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L in Remarks) Depth (inches): Depth (inches):	ng Roots (C3) bils (C6) LRR A)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) luitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	y (C9)
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Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringer	B4) s (B6) on Aerial Imagery Concave Surface Yes Yes Yes 9	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ri Recent Iron Re Stunted or Stre ((B7) Other (Explain ce (B8)	d 4B) 1) ebrates (B13) ide Odor (C1) ospheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L in Remarks) Depth (inches): Depth (inches):	ng Roots (C3) bils (C6) LRR A)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) luitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	y (C9)
Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringer	B4) s (B6) on Aerial Imagery Concave Surface Yes Yes Yes 9	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Ro Stunted or Stro (B7) Other (Explain ce (B8) No X No X No X	d 4B) 1) ebrates (B13) ide Odor (C1) ospheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L in Remarks) Depth (inches): Depth (inches):	ng Roots (C3) bils (C6) LRR A)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) luitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	y (C9)
Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe	B4) s (B6) on Aerial Imagery Concave Surface Yes Yes Yes 9	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Ro Stunted or Stro (B7) Other (Explain ce (B8) No X No X No X	d 4B) 1) ebrates (B13) ide Odor (C1) ospheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L in Remarks) Depth (inches): Depth (inches):	ng Roots (C3) bils (C6) LRR A)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) luitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	y (C9)
Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Date Remarks:	B4) s (B6) on Aerial Imagery Concave Surface Yes Yes Yes 9	1, 2, 4A, and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Ro Recent Iron Ro Stunted or Stro (B7) Other (Explain ce (B8) No X No X No X	d 4B) 1) ebrates (B13) ide Odor (C1) ospheres along Livir educed Iron (C4) eduction in Tilled So essed Plants (D1) (L in Remarks) Depth (inches): Depth (inches):	ng Roots (C3) bils (C6) LRR A)	Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation N Geomorphi Shallow Aq FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	ned Leaves (B9) (MLRA 4B) latterns (B10) in Water Table (C2) Visible on Aerial Imager ic Position (D2) luitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	y (C9)

Project/Site: Camas Heights		Citv/Coun	ty: Camas/ Clark		Sampling Date	: 4/14/	/2021
Applicant/Owner: Lennar Northwest, Inc	· .		., <u></u>	State: WA		Point:	
Investigator(s): Stacey Reeed, PWS and		Section	, Township, Rang	ge: Sec. 21, T.2N., R.3E.			
Landform (hillslope, terrace, etc.): Hills	lope			oncave, convex, none):		Slope (%):	15-20%
Subregion (LRR): A. Northwest Forests	and Coast	Lat: 45.647154		ng: <u>-122.43955681</u>			
Soil Map Unit Name: Hesson cla	y loam (Unit HcE), 20% to	30% slopes; Non-			lassification:	none)
Are climatic / hydrologic conditions on the					(If no, expla		
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly d	listurbed? A	re "Normal Circumstance			No
Are Vegetation, Soil	, or Hydrology	naturally prob	elematic? (l	f needed, explain any an	wers in Remarks	s.)	
SUMMARY OF FINDINGS - Att	ach site map show	ing sampling p	oint location	ıs, transects, impoi	tant features	s, etc.	
Hydrophytic Vegetation Present?	Yes X	No					
Hydric Soil Present?	Yes	No <u>X</u>	Is the Sampl				
Wetland Hydrology Present?	Yes	No <u>X</u>	within a Wet	land? Yes	No	<u>X</u>	
Precipitation: According to the NWS Vancouver weathe Remarks:	er station, 0.00 inches of ra	ainfall was received	I on the day of the	e site visit and 0.09 inche	s within the two v	veeks prior.	
Plot located in county mapped wetlands. I	Drain tile present.						
VEGETATION				1			
	Absolute	Dominant	Indicator	Dominance Test wo			
Tree Stratum (Plot Size: 30' r or) 1.	_ <u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	-		
2.				That Are OBL, FACW	, or FAC:	3	(A)
3.							
4.				Total Number of Dom			(=)
·		T / 10		Species Across All St	rata:	4	(B)
Sapling/Shrub Stratum (Plot Size: 10' r o		Total Cover		Danaget of Danain and	Consiss		
4		V	540	Percent of Dominant	•	<u>75%</u>	(A (D)
Rubus armeniacus 2.		Yes	FAC	That Are OBL, FACW		1370	(A/B)
3.				Prevalence Index we Total % Cover o			
4.					x 1 =	0	_
5.					x 2 =	0	_
·	 5% =	Total Cover			5 x 3 =	285	
Herb Stratum (Plot Size: 5' r or)		Total Gover		· · · · · ·	0 x 4 =	120	
Alopecurus pratensis	50%	Yes	FAC	· · · · · · · · · · · · · · · · · · ·	x 5 =	0	
Anthoxanthum odoratum	20%	Yes	FACU	Column Totals: 12		405	(B)
3. Poa species	20%	Yes	FAC*	Prevalence Index	• /	3.24	` ′
Plantago lanceolata	10%	No	FACU	Hydrophytic Vegeta	tion Indicators:		
5.				1 - Rapid Test for		getation	
6.				X 2 - Dominance Te	est is >50%		
7.				3 - Prevalence In	dex is ≤3.0 ¹		
8.				4 - Morphological		rovide suppo	orting
9.					ks or on a separa		3
10.				5 - Wetland Non-	•	,	
11.				Problematic Hydr		on (Explain)	1
Woody Vine Stratum (Plot Size: 10' r or	100% =	Total Cover		¹ Indicators of hydric s be present.	oil and wetland h	ydrology mi	ust
Bare Ground in Herb Stratum	0% =	- Total Cover		Hydrophytic Vegetation Present?	Yes X No		
Remarks: *Assumed FAC				·			

SOIL							Sampling Point:	11
Profile Descript	tion (Describe to th	e depth need	ded to document	the indicator or conf	irm the abse	ence of indicators):	
Depth	Matrix	×		Redox Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	7.5YR 3/3	100					SiL	
				- -				
			-					
1 0-0	t tier Departation		1 M - 4-14 CCC-	- d - Cooted Cond				
_ * '	entration, D=Depletio ore Lining, M=Matrix		ced Matrix US=Ud	overed or Coated Sand	Grains.			
	cators (Applicable t		unless otherwise	noted):		Indicators for I	Problematic Hydric S	
Histosol (A1)			Sandy Redox	•		2 cm Muck	•	
Histic Epiped	•	-	Stripped Matri	, ,			Material (TF2)	
Black Histic (,	-		/ Mineral (F1) (except N	MIRA 1)		w Dark Surface (TF12	1
Hydrogen Su	. ,	-	Loamy Gleye	, , , .	VILITE 1)		ain in Remarks)	,
	low Dark Surface (A	.11)	Depleted Mati				and in Frontierro,	
	Surface (A12)	· · · · /	Redox Dark S	` '				
	y Mineral (S1)	-		k Surface (F7)			drophytic vegetation a	
	ed Matrix (S4)	-	Redox Depres	, ,		problematic.	be present, unless dis	turped of
Restrictive Laye	, ,		<u> </u>			<u> </u>		
Type						Hydric Soil		
. 71						Present?	Yes	No X
Depth (inches):						rieseiit:		
Depth (inches): Remarks: Pieces of drain til						Present:		
Remarks: Pieces of drain til	le present.					Fresents		
Remarks:	le present.					Fresent:		
Remarks: Pieces of drain til HYDROLOGY Wetland Hydrolo	le present.	equir <u>ed; chec</u>	:k all th <u>at apply)</u>				cators (2 or more requi	red)
Remarks: Pieces of drain til HYDROLOG Wetland Hydrolo Primary Indicator	le present. Y ogy Indicators: rs (minimum of one r	equired; chec			MLRA	Secondary Indic	cators (2 or more requi	
Remarks: Pieces of drain til HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate	le present. Y ogy Indicators: rs (minimum of one reer (A1)	equired; chec	Water-Stained	d Leaves (B9) (except	MLRA	Secondary Indic	cators (2 or more requi	
Remarks: Pieces of drain til HYDROLOG Wetland Hydrolo Primary Indicator	Y ogy Indicators: rs (minimum of one refer (A1) Table (A2)	equired; chec		nd 4B)	MLRA	Secondary India Water-Stain 4A, and 4	cators (2 or more requi	
Remarks: Pieces of drain til HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water T	Y ogy Indicators: rs (minimum of one reer (A1) Table (A2)	equired; chec	Water-Stained 1, 2, 4A, an Salt Crust (B1	nd 4B)	MLRA	Secondary Indio Water-Stain 4A, and 4	cators (2 or more requi led Leaves (B9) (MLR/	
Remarks: Pieces of drain til HYDROLOGY Wetland Hydrolo Primary Indicator: Surface Wate High Water T Saturation (A	Y ogy Indicators: rs (minimum of one r er (A1) Table (A2) A3) s (B1)	equired; chec	Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert	nd 4B)	MLRA	Secondary Indio Water-Stain 4A, and 4 Drainage Pa	cators (2 or more required Leaves (B9) (MLR/	A 1, 2,
Remarks: Pieces of drain til HYDROLOG) Wetland Hydrolo Primary Indicator: Surface Wate High Water T Saturation (A Water Marks	le present. Y ogy Indicators: rs (minimum of one r) rer (A1) Table (A2) A3) s (B1) eposits (B2)	equired; chec	Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert	nd 4B) I1) tebrates (B13)		Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation \	cators (2 or more requi led Leaves (B9) (MLR/ BB) atterns (B10) Water Table (C2)	A 1, 2,
Remarks: Pieces of drain til HYDROLOGY Wetland Hydrolo Primary Indicator: Surface Wate High Water T Saturation (A Water Marks Sediment De	re (A1) Table (A2) A3) s (B1) eposits (B2)	required; chec	Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz	nd 4B) (11) tebrates (B13) ffide Odor (C1)		Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation \	cators (2 or more required Leaves (B9) (MLR/4B) atterns (B10) Water Table (C2) Visible on Aerial Image	A 1, 2,
Remarks: Pieces of drain til HYDROLOGY Wetland Hydrolo Primary Indicator: Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits	le present. Y ogy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4)	required; chec	Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F	nd 4B) (11) tebrates (B13) (fide Odor (C1) cospheres along Living	Roots (C3)	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation \ Geomorphic	cators (2 or more required Leaves (B9) (MLR/4B) atterns (B10) Water Table (C2) /isible on Aerial Image	A 1, 2,
Remarks: Pieces of drain til HYDROLOGY Wetland Hydrolo Primary Indicator: Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or	re (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)	required; chec	Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F	nd 4B) (11) (tebrates (B13) (fide Odor (C1) (cospheres along Living Reduced Iron (C4)	Roots (C3)	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu FAC-Neutra	cators (2 or more required Leaves (B9) (MLR/4B) atterns (B10) Water Table (C2) /isible on Aerial Image	A 1, 2,
Remarks: Pieces of drain til HYDROLOG) Wetland Hydrolo Primary Indicator: Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Surface Soil	re (A1) Table (A2) A3) s (B1) eposits (B2) s (B3) Crust (B4) s (B5)	- - - - - -	Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F	nd 4B) (11) (12) (13) (14) (15) (15) (15) (16) (16) (17) (17) (18)	Roots (C3)	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation N Geomorphic Shallow Aqu FAC-Neutra Raised Ant	cators (2 or more required Leaves (B9) (MLR/IB) atterns (B10) Water Table (C2) Visible on Aerial Image C Position (D2) uitard (D3)	A 1, 2,
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Remarks: Pieces of drain til HYDROLOGY Wetland Hydrolo Primary Indicator: Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Veg Field Observatio Surface Water P Water Table Prese Saturation Prese (includes capillar	le present. Y ogy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) Cracks (B6) risible on Aerial Imag getated Concave Su ons: Present? Yes esent? Yes ent? Yes ry fringe)	gery (B7) 	Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain No X No X No X	nd 4B) Ith tebrates (B13) Iffide Odor (C1) Itospheres along Living Reduced Iron (C4) Iteduction in Tilled Soils Iteressed Plants (D1) (LR In in Remarks) Depth (inches): Depth (inches): Depth (inches):	Roots (C3) s (C6) RR A) > 16" > 16"	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	cators (2 or more required Leaves (B9) (MLR/4B) atterns (B10) Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	A 1, 2,
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Remarks: Pieces of drain til HYDROLOGY Wetland Hydrolo Primary Indicator: Surface Water High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Veg Field Observatio Surface Water P Water Table Prese Saturation Prese (includes capillar	le present. Y ogy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) rs (B3) Crust (B4) s (B5) Cracks (B6) Visible on Aerial Imag getated Concave Su ons: Present? Yes esent? Yes ery fringe) rded Data (stream getated Concave getated Concave getated Concave Su	gery (B7) 	Water-Stained 1, 2, 4A, an Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain No X No X No X	nd 4B) Ith tebrates (B13) Iffide Odor (C1) Itospheres along Living Reduced Iron (C4) Iteduction in Tilled Soils Iteressed Plants (D1) (LR In in Remarks) Depth (inches): Depth (inches): Depth (inches):	Roots (C3) s (C6) RR A) > 16" > 16"	Secondary India Water-Stain 4A, and 4 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	cators (2 or more required Leaves (B9) (MLR/4B) atterns (B10) Water Table (C2) /isible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A) e Hummocks (D7)	A 1, 2,

Project/Site: Camas Heights		Citv/Count	ty: Camas/ Clark		Sampling Date	e: 4/15/	2021
Applicant/Owner: Lennar Northwest, Inc.			.,. <u></u>	State: WA		Point:	
Investigator(s): Stacey Reeed, PWS and		Section	, Township, Rang	ge: Sec. 21, T.2N., R.3E.			
Landform (hillslope, terrace, etc.): Hillsle		_	Local relief (co	oncave, convex, none):	Concave	Slope (%):	<3%
Subregion (LRR): A. Northwest Forests a	•	it: 45.644054		ng: 122.438724	Datur		
	(Unit DoB), 0% to 5% slope	s; Non-hydric			lassification:	none	
Are climatic / hydrologic conditions on the	site typical for this time of y	ear?	Ye	es X No	(If no, exp	lain in Remarl	ks)
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly d	isturbed? A	re "Normal Circumstance	s" present?	Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (li	f needed, explain any an	wers in Remark	ks.)	
SUMMARY OF FINDINGS - Atta	nch site map showing	g sampling p	oint location	s, transects, impo	tant feature	s, etc.	
Hydrophytic Vegetation Present?	Yes X	lo					
Hydric Soil Present?		lo	Is the Sampl				
Wetland Hydrology Present?	Yes X	lo	within a Wet	land? Yes <u>)</u>	<u> </u>		
Precipitation: According to the NWS Vancouver weather	station, 0.00 inches of rain	fall was received	on the day of the	e site visit and 0.09 inche			
Remarks: Wetland A							
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test wo			_
Tree Stratum (Plot Size: 30' r or)	% Cover	Species?	<u>Status</u>	Number of Dominant	Species		
1				That Are OBL, FACW	, or FAC:	1	(A)
2							
3				Total Number of Dom	inant		
4.				Species Across All St	rata:	1	(B)
	= To	otal Cover					
Sapling/Shrub Stratum (Plot Size: 10' r or	<u> </u>			Percent of Dominant	Species		
1				That Are OBL, FACW	, or FAC:	<u>100%</u>	(A/B)
2				Prevalence Index w			
3				Total % Cover o	f: Multiply by	<i>/</i> :	-
4				· · · · · · · · · · · · · · · · · · ·	x 1 =	0	
5					0 x 2 =	20	
	= To	otal Cover		· · · — ·	0 x 3 =	270	
Herb Stratum (Plot Size: 5' r or)					x 4 =	0	
Alopecurus pratensis	90%	Yes	FAC		x 5 =	0	
2. Phalaris arundinacea	10%	No	FACW		00 (A)	290	(B)
3.				Prevalence Index		<u>2.90</u>	
4				Hydrophytic Vegeta			
5				1 - Rapid Test for		egetation	
6.				X 2 - Dominance Te			
7				X 3 - Prevalence In			
8				4 - Morphological	,		orting
9					ks or on a sepa	,	
10				5 - Wetland Non-			ı
11				Problematic Hydr			
Woody Vine Stratum (Plot Size: 10' r or	= To	otal Cover		¹ Indicators of hydric s be present.	oil and wetland	hydrology mu	ıst
2.	0% = To	otal Cover		Hydrophytic Vegetation Present?	Yes X No	·	
Remarks:							

Profile Descript							Sampling Point:	12
•	tion (Describe to th	ne depth need	ded to document the	indicator or co	onfirm the abse	ence of indicators	s):	
Depth	Matrix	x		Redox Fe	atures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-6	10YR 3/2	95	7.5YR 4/6	5	С	M	SiL	
6-16	10YR 3/2	95	7.5YR 3/4	5	С	M	SiCL	
Type: C=Conce	entration, D=Depletic	on, RM=Redu	iced Matrix CS=Cover	ed or Coated Sa	nd Grains.	_	_	_
² Location: PL=P	Pore Lining, M=Matrix	K						
Hydric Soil India	cators (Applicable	to all LRRs,	unless otherwise not	ted):		Indicators for	Problematic Hydric S	Soils ³ :
Histosol (A1)	.)		Sandy Redox (S5	5)		2 cm Muck	(A10)	
Histic Epiped	•	-	Stripped Matrix (S	•			t Material (TF2)	
Black Histic	, ,	-	Loamy Mucky Mir	•	ot MLRA 1)		ow Dark Surface (TF12	2)
Hydrogen Sı	, ,	-	Loamy Gleyed Ma		•		lain in Remarks)	,
	elow Dark Surface (A	- \11)	Depleted Matrix (I				•	
	Surface (A12)	-	X Redox Dark Surfa			_		
	ky Mineral (S1)	•	Depleted Dark Su	. ,			ydrophytic vegetation a	
	ed Matrix (S4)	-	Redox Depression	, ,		nydrology must problematic.	t be present, unless dis	sturped or
	. ,			,		P. 22		
Restrictive Laye						Undein Coil		
Type						Hydric Soil	Y V	NI -
Depth (inches):):				1	Present?	Yes X	No
Remarks: Few rounded gra	avels throughout.	•						
Few rounded gra								
Few rounded gra	Y							-
Few rounded gra	Y logy Indicators:	Squired: chec	ok all that apply)			Secondary Indi	cotors (2 or more requi	irod\
Few rounded gra HYDROLOG Wetland Hydrolo Primary Indicator	Y logy Indicators: rs (minimum of one r	equired; chec		(P0) (avec		-	icators (2 or more requ	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat	Y logy Indicators: ors (minimum of one reter (A1)	required; chec	Water-Stained Le	, , ,	pt MLRA	Water-Stair	ned Leaves (B9) (MLR	
HYDROLOG` Wetland Hydrolo Primary Indicator Surface Wat High Water	logy Indicators: rs (minimum of one r ter (A1) Table (A2)	required; chec	Water-Stained Le	, , ,	pt MLRA	Water-Stair	ned Leaves (B9) (MLR 4B)	
HYDROLOG* Wetland Hydrolo Primary Indicator Surface Wat High Water - Saturation (A	logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3)	required; ched	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11)	B)	pt MLRA	Water-Stain 4A, and Drainage P	ned Leaves (B9) (MLR 4B) Patterns (B10)	
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1)	required; ched	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11) Aquatic Invertebra	eB) rates (B13)	pt MLRA	Water-Stair 4A, and Drainage F	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2)	AA 1, 2,
HYDROLOG* Wetland Hydrolog Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De	Y logy Indicators: rs (minimum of one r) ter (A1) Table (A2) A3) s (B1) eposits (B2)	required; chec - - - -	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	rates (B13) e Odor (C1)		Water-Stain 4A, and Drainage P Dry-Season Saturation	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image	AA 1, 2,
HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	required; chec	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp	rates (B13) e Odor (C1) oheres along Livi		Water-Stain 4A, and Drainage P Dry-Season Saturation X Geomorphi	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image ic Position (D2)	AA 1, 2,
HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or	logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4)	required; chec	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	rates (B13) Dodor (C1) Cheres along Livi	ng Roots (C3)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ag	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3)	AA 1, 2,
HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits	logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5)	required; ched	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	rates (B13) c Odor (C1) cheres along Livi uced Iron (C4) uction in Tilled So	ng Roots (C3)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5)	ery (C9)
HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil	Y logy Indicators: rs (minimum of one r) ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6)	- - - - - -	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	rates (B13) c Odor (C1) cheres along Liviluced Iron (C4) cuction in Tilled So	ng Roots (C3)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) t Mounds (D6) (LRR A)	ery (C9)
HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) Visible on Aerial Image	- - - - - gery (B7)	Water-Stained Le 1, 2, 4A, and 4l Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu	rates (B13) c Odor (C1) cheres along Liviluced Iron (C4) cuction in Tilled So	ng Roots (C3)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5)	ery (C9)
HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	Y logy Indicators: rs (minimum of one r) ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6)	- - - - - gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	rates (B13) c Odor (C1) cheres along Liviluced Iron (C4) cuction in Tilled So	ng Roots (C3)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) t Mounds (D6) (LRR A)	ery (C9)
HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V	Iogy Indicators: Ins (minimum of one rester (A1) Table (A2) A3) Is (B1) Ins (B3) Ins (B4) Ins (B5) Ins (B6) Institute (B6)	- - - - - gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu	rates (B13) c Odor (C1) cheres along Liviluced Iron (C4) cuction in Tilled So	ng Roots (C3)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) t Mounds (D6) (LRR A)	ery (C9)
HYDROLOG Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Ve	logy Indicators: Instruction (Management of the Properties of the	gery (B7) urface (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) c Odor (C1) cheres along Liviluced Iron (C4) cuction in Tilled So	ng Roots (C3) bils (C6) LRR A)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant	ned Leaves (B9) (MLR 4B) Patterns (B10) n Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) t Mounds (D6) (LRR A)	ery (C9)
HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Vet	logy Indicators: Instruction (Management of the Properties of the	gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) c Odor (C1) cheres along Livinuced Iron (C4) cuction in Tilled Soled Plants (D1) (I	ng Roots (C3) pils (C6) LRR A)	Water-Stain 4A, and Drainage P Dry-Season Saturation X Geomorphi Shallow Ac X FAC-Neutr Raised Ant Frost-Heav	ned Leaves (B9) (MLR 4B) Patterns (B10) In Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) It Mounds (D6) (LRR A) We Hummocks (D7)	ery (C9)
HYDROLOGY Wetland Hydrole Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposit Surface Soil Inundation V Sparsely Vet Field Observation	Y logy Indicators: Ins (minimum of one rester (A1)) Table (A2) A3) Is (B1) Ins (B3) Ins (B4) Ins (B5) Ins (B5) Ins (B6) Insible on Aerial Image egetated Concave Surface (B6) Insible on Aerial Image egetated (B6)	gery (B7) urface (B8)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) Production (C1) Production in Tilled Scied Plants (D1) (IRemarks) Depth (inches):	ng Roots (C3) pils (C6) LRR A)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ac X FAC-Neutr Raised Ant Frost-Heav	ned Leaves (B9) (MLR 4B) Patterns (B10) In Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) It Mounds (D6) (LRR A) We Hummocks (D7)	ery (C9)
HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water P	logy Indicators: Ins (minimum of one rester (A1) Table (A2) A3) Is (B1) Ins (B3) Ins (B4) Ins (B5) Ins (B5) Ins (B6) Inside on Aerial Image agetated Concave Surface Concave Surface Cons: Inside on Aerial Image agetated Concave Surface Concave Surface Concave Surface Cons: Inside on Aerial Image agetated Concave Surface Concave	gery (B7)	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) c Odor (C1) cheres along Livinuced Iron (C4) cuction in Tilled Soled Plants (D1) (I Remarks) Depth (inches):	ng Roots (C3) pils (C6) LRR A)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant Frost-Heav Wetland Hydrology	ned Leaves (B9) (MLR 4B) Patterns (B10) In Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) It Mounds (D6) (LRR A) We Hummocks (D7)	ery (C9)
HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillate)	logy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) Visible on Aerial Image agetated Concave Surface Concave Surface Cons: Present? Present? Yes ent? Yes ary fringe)	gery (B7) 	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) c Odor (C1) cheres along Living uced Iron (C4) uction in Tilled So sed Plants (D1) (I Remarks) Depth (inches): Depth (inches):	ng Roots (C3) pils (C6) LRR A)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant Frost-Heav Wetland Hydrology Present?	ned Leaves (B9) (MLR 4B) Patterns (B10) In Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) It Mounds (D6) (LRR A) We Hummocks (D7)	ery (C9)
HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillate)	logy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) Visible on Aerial Image agetated Concave Surface Concave Surface Cons: Present? Present? Yes ent? Yes ary fringe)	gery (B7) 	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) c Odor (C1) cheres along Living uced Iron (C4) uction in Tilled So sed Plants (D1) (I Remarks) Depth (inches): Depth (inches):	ng Roots (C3) pils (C6) LRR A)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant Frost-Heav Wetland Hydrology Present?	ned Leaves (B9) (MLR 4B) Patterns (B10) In Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) It Mounds (D6) (LRR A) We Hummocks (D7)	ery (C9)
HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Vet Field Observation Surface Water P Water Table Pre Saturation Prese (includes capillar) Describe Recore	logy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) Visible on Aerial Image agetated Concave Surface Concave Surface Cons: Present? Present? Yes ent? Yes ary fringe)	gery (B7) 	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) c Odor (C1) cheres along Living uced Iron (C4) uction in Tilled So sed Plants (D1) (I Remarks) Depth (inches): Depth (inches):	ng Roots (C3) pils (C6) LRR A)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant Frost-Heav Wetland Hydrology Present?	ned Leaves (B9) (MLR 4B) Patterns (B10) In Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) It Mounds (D6) (LRR A) We Hummocks (D7)	ery (C9)
HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillate)	logy Indicators: rs (minimum of one rater (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) Visible on Aerial Image agetated Concave Surface Concave Surface Cons: Present? Present? Yes ent? Yes ary fringe)	gery (B7) 	Water-Stained Le 1, 2, 4A, and 4I Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stress Other (Explain in	rates (B13) c Odor (C1) cheres along Living uced Iron (C4) uction in Tilled So sed Plants (D1) (I Remarks) Depth (inches): Depth (inches):	ng Roots (C3) pils (C6) LRR A)	Water-Stain 4A, and Drainage F Dry-Season Saturation X Geomorphi Shallow Ad X FAC-Neutr Raised Ant Frost-Heav Wetland Hydrology Present?	ned Leaves (B9) (MLR 4B) Patterns (B10) In Water Table (C2) Visible on Aerial Image ic Position (D2) quitard (D3) al Test (D5) It Mounds (D6) (LRR A) We Hummocks (D7)	ery (C9)

Project/Site: Camas Heights		City/Count	y: Camas/ Clark		Sampling Date:	4/15/2021
Applicant/Owner: Lennar Northwest,	Inc.			State: WA	Sampling Po	
Investigator(s): Stacey Reeed, PWS a		Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.,		
Landform (hillslope, terrace, etc.): h	illslope			oncave, convex, none):		Slope (%): <3%
Subregion (LRR): A. Northwest Fores		Lat: 45.644055		ng: <u>-122.43867149</u>		
Soil Map Unit Name: Dollar lo	am (Unit DoB), 0% to 5% sl	opes; Non-hydric			assification:	
Are climatic / hydrologic conditions on			Υe	es X No	(If no, explain	ı in Remarks)
Are Vegetation, Soil _	, or Hydrology , or Hydrology	significantly dis	sturbed? A	re "Normal Circumstance:	s" present?	Yes X No
Are Vegetation, Soil	, or Hydrology	naturally probl	ematic? (If	f needed, explain any ans	wers in Remarks.))
SUMMARY OF FINDINGS - A	Attach site map show	ing sampling p	oint location	s, transects, impor	tant features,	etc.
Hydrophytic Vegetation Present?	Yes X		l			
Hydric Soil Present?	Yes		Is the Sampl			
Wetland Hydrology Present?	Yes	No <u>X</u>	within a Wet	land? Yes	NoX	<u>.</u>
Precipitation: According to the NWS Vancouver wea	ther station, 0.00 inches of	rainfall was received	on the day of the	site visit and 0.09 inches	s within the two we	eks prior.
Remarks:						
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test wor		
Tree Stratum (Plot Size: 30' r or	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant	Species	
1.				That Are OBL, FACW	, or FAC:	1 (A)
2.						
3.				Total Number of Dom	nant	
4				Species Across All Str	rata:	1 (B)
	0%	= Total Cover				
Sapling/Shrub Stratum (Plot Size: 10' 1.	<u>r or)</u>			Percent of Dominant S	•	1000/
2.				That Are OBL, FACW	, 5	<u>100%</u> (A/B)
3.				Prevalence Index wo Total % Cover of		
-						
4 5.				OBL species 0 FACW species 0	 -	0
5. <u> </u>	00/	- Tatal Causa			0 x 3 =	0
Herb Stratum (Plot Size: 5' r or	0%	= Total Cover		FACU species 0	-	300 0
	100%	Voc	EAC	UPL species 0		0
Alopecurus pratensis Z.	100%	Yes	FAC	Column Totals: 10		300 (B)
3.				Prevalence Index		3.00
4.				Hydrophytic Vegetat		
5.			-		Hydrophytic Vege	tation
6.				X 2 - Dominance Te	, , , ,	
7.				X 3 - Prevalence Inc	lex is ≤3 0 ¹	
8.				4 - Morphological		vide supporting
9.					ks or on a separate	
10.				5 - Wetland Non-\	•	
11.				Problematic Hydro		(Explain) ¹
Woody Vine Stratum (Plot Size: 10' r o		= Total Cover		¹ Indicators of hydric so be present.	oil and wetland hy	drology must
1. 2.				Hydrophytic		
% Bare Ground in Herb Stratum	0%	= Total Cover		Vegetation Present?	Yes X No	
Remarks:				•		

SOIL							Sampling Point:	13
	ption (Describe to the	e depth nee	eded to document	the indicator or co	nfirm the abso	ence of indicators		
Depth	Matrix	<u></u>		Redox Fea	atures			
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 3/2	100	<u> </u>			<u> </u>	SiL	
12-16	10YR 4/3	40	<u> </u>				SiCL	mixed matrix
	10YR 3/2	60					SiL	
				<u> </u>				
				<u> </u>				
1- 0.0								-
	centration, D=Depletion Pore Lining, M=Matrix.		iced Matrix US=Cov	vered or Coated Sar	nd Grains.			
	licators (Applicable to		unless otherwise	noted):		Indicators for I	Problematic Hydric S	 Soils³:
Histosol (A1			Sandy Redox (2 cm Muck	•	
Histic Epipe	•	•	Stripped Matrix	• •			Material (TF2)	
Black Histic	` '	•		Mineral (F1) (except	t MLRA 1)		w Dark Surface (TF12	2)
Hydrogen S	` '	•	Loamy Gleyed	, , , .	,		ain in Remarks)	,
	elow Dark Surface (A1	.11)	Depleted Matri				,	
<u> </u>	Surface (A12)	,	Redox Dark Su	. ,		3		
Sandy Muc	ky Mineral (S1)	-	Depleted Dark	Surface (F7)			/drophytic vegetation a be present, unless dis	
Sandy Gley	yed Matrix (S4)		Redox Depress	sions (F8)		problematic.	50 process, a.m. 52	nuibod of
Restrictive Lay	/er (if present):							
Тур	pe:					Hydric Soil		
Depth (inches	;):					Present?	Yes	No X
Remarks:								
HYDROLOG								
	ology Indicators:	autrodu che	-1: all that apply)			Sacandary India	toro (2 or more regu	١٠١٠
	ors (minimum of one re	equileu, ones			- 4 N A I D A		cators (2 or more requ	 -
Surface Wa High Water	` '	,		l Leaves (B9) (excep	I NILKA	wvater-Stain 4A, and 4	ned Leaves (B9) (MLR. 1R)	A 1, ∠,
Saturation (1, 2, 4A, and Salt Crust (B11				atterns (B10)	
Water Mark	` '		Aquatic Inverte	,			n Water Table (C2)	
	Deposits (B2)		Hydrogen Sulfi	,			/isible on Aerial Image	an/ (C9)
Drift Deposi	. ,	•		ospheres along Livin	na Roots (C3)		c Position (D2)	лу (О <i>Э)</i>
	or Crust (B4)	-		Reduced Iron (C4)	ig 110010 (,	Shallow Aqu	` ,	
Iron Deposi	` '	-		eduction in Tilled So	ils (C6)	FAC-Neutra		
· ·	il Cracks (B6)	•		essed Plants (D1) (L			Mounds (D6) (LRR A)	ı
	Visible on Aerial Imag	uery (B7)	Other (Explain	, , ,	,		e Hummocks (D7)	
	egetated Concave Sur	•		,				
Field Observati	ions:							
Surface Water I			No X	Depth (inches):		Wetland		
Water Table Pro	-			Depth (inches):		Hydrology	Yes	No X
Saturation Pres	_			Depth (inches):		Present?		
(includes capilla	_							
Describe Reco	orded Data (stream g	iauge moni	itoring well aerial	photos previous i	nspections), i	f available:		
Describe Noce	nueu Data (St. Saii. 3	auge,	toring won, aona. ,	pilotos, provioue				
Remarks:					-			
Soils dry through	hout.							
•								

Project/Site: Camas Heights		City/Count	ty: Camas/ Clark		Sampling Date	e: 4/15/	2021
Applicant/Owner: Lennar Northwest, Inc	:			State: WA		Point:	
Investigator(s): Stacey Reeed, PWS and	Sonya Templeton	Section	, Township, Ranզ	ge: Sec. 21, T.2N., R.3E	., W.M.		
Landform (hillslope, terrace, etc.): Hills	lope		Local relief (co	oncave, convex, none):	SI Concave	Slope (%):	<3%
Subregion (LRR): A. Northwest Forests	and Coast	Lat: 45.643767		ng: -122.43835699	Datun	_	
Soil Map Unit Name: Dollar loam	(Unit DoB), 0% to 5% slop	oes; Non-hydric	<u> </u>	NWI	lassification:	none	:
Are climatic / hydrologic conditions on the	site typical for this time of	year?	Y	es X No	(If no, expl	ain in Remarl	ks)
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly d	isturbed? A	re "Normal Circumstance	es" present?	Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (l	f needed, explain any an	swers in Remark	(s.)	
SUMMARY OF FINDINGS - Att	ach site map showi	ng sampling p	oint location	s, transects, impo	rtant feature	s, etc.	
Hydrophytic Vegetation Present?	Yes X	No					
Hydric Soil Present?	Yes	No <u>X</u>	Is the Sampl				
Wetland Hydrology Present?	Yes	No <u>X</u>	within a Wet	land? Yes	No	X	
Precipitation: According to the NWS Vancouver weathe	r station, 0.00 inches of ra	infall was received	on the day of the	e site visit and 0.09 inche	es within the two	weeks prior.	
Remarks:							
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test wo	rksheet:		
Tree Stratum (Plot Size: 30' r or)		Species?	<u>Status</u>	Number of Dominant			
1.				That Are OBL, FACV		1	(A)
2.				ŕ			` '
3.				Total Number of Don	ninant		
4.				Species Across All S	trata:	1	(B)
	0% =	Total Cover		·			` '
Sapling/Shrub Stratum (Plot Size: 10' r o	<u> </u>			Percent of Dominant	Species		
1.				That Are OBL, FACV	/, or FAC:	<u>100%</u>	(A/B)
2.				Prevalence Index w	orksheet:		•
3.				Total % Cover of	f: Multiply by	:	_
4.				OBL species) x 1 =	0	
5.				FACW species	x 2 =	10	
	0% =	Total Cover		FAC species	5 x 3 =	285	
Herb Stratum (Plot Size: 5' r or)	·			FACU species	x 4 =	0	
Alopecurus pratensis	95%	Yes	FAC	UPL species	x 5 =	0	
2. Phalaris arundinacea	5%	No	FACW	Column Totals: 1	00 (A)	295	(B)
3.				Prevalence Inde	κ = B/A =	2.95	
4.				Hydrophytic Vegeta	tion Indicators:		
5.				1 - Rapid Test fo	r Hydrophytic Ve	getation	
6.				X 2 - Dominance T	est is >50%		
7.				X 3 - Prevalence In	dex is ≤3.0 ¹		
8.				4 - Morphologica	l Adaptations ¹ (F	rovide suppo	orting
9.				data in Rema	ks or on a separ	ate sheet)	
10				5 - Wetland Non-	Vascular Plants	1	
11				Problematic Hyd	ophytic Vegetati	on (Explain) ¹	1
Woody Vine Stratum (Plot Size: 10' r or _ 1.	<u>100%</u> =	Total Cover		¹ Indicators of hydric s be present.	soil and wetland	hydrology mu	ust
2.	0% =	Total Cover		Hydrophytic Vegetation Present?	Yes X No	·	
				. rosont:			
Remarks:							

SOIL							Sampling Point:	14
Profile Descrip	ption (Describe to th	ne depth nee	eded to document the	e indicator or	confirm the abse	ence of indicators):	
Depth	Matrix	x		Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-9	10YR 3/2	100			<u> </u>		SiL	
9-16	10YR 3/2	70	7.5YR 4/4	10	С	M	SiL	mixed matrix
	10YR 4/3	20			<u> </u>		SiCL	
			_					
	<u> </u>							
· · ·	•		uced Matrix CS=Cove	red or Coated	Sand Grains.			
	Pore Lining, M=Matrix		-41	* B.				2
-		to all LRKS,	unless otherwise no	•			Problematic Hydric S	3oils³:
Histosol (A1	•		Sandy Redox (S	•		2 cm Muck	• •	
Histic Epipe	, ,		Stripped Matrix (Material (TF2)	
Black Histic	` '		Loamy Mucky Mi	, , ,	cept MLRA 1)		w Dark Surface (TF12	2)
Hydrogen S	` '		Loamy Gleyed M			Other (Expi	ain in Remarks)	
<u> </u>	elow Dark Surface (A	(11)	Depleted Matrix	• •				
	Surface (A12)		Redox Dark Surf	` '			drophytic vegetation	
	ky Mineral (S1)		Depleted Dark S	• ,			be present, unless dis	sturbed or
Sandy Gley	ed Matrix (S4)		Redox Depression	ons (F8)		problematic.		
Restrictive Lay								
Тур						Hydric Soil		
Depth (inches)):	-				Present?	Yes	No X
Remarks:					-			
Disturbed soils-	pieces of charcoal ar	nd rounded g	gravels in lower layer.					
UVDBOLOG	·V							
HYDROLOG Wetland Hydro	ology Indicators:							
	ors (minimum of one r	required: che	ack all that annly)			Secondary Indic	cators (2 or more requ	iired)
Surface Wa		Equilou, one		- - (R0) (e)	voont MI RA		-	
High Water	` '		Water-Stained Le	, , ,	(Cept IVILITY	4A, and 4	ned Leaves (B9) (MLR 4R)	;A 1, ∠,
Saturation (Salt Crust (B11)				atterns (B10)	
Water Mark	` '		Aquatic Inverteb				n Water Table (C2)	
_	Deposits (B2)		Hydrogen Sulfide	` ,			r water Table (C2) Visible on Aerial Imag	en/ (C0)
Drift Deposi	. ,			. ,	Living Roots (C3)		c Position (D2)	ery (Ce)
	or Crust (B4)		Presence of Red	•	. ,	Shallow Aqu	` '	
Iron Deposit	` ,		Recent Iron Red	` '	•	FAC-Neutra	, ,	
	ils (B5) il Cracks (B6)		Stunted or Stress		` ,		Mounds (D6) (LRR A	١
	Visible on Aerial Imag	gen/ (R7)	Other (Explain in	,	I) (LIXIX.)		e Hummocks (D7)	,
	egetated Concave Su	• • • • •	Other (Explain iii	I Nomano,			3 Mullillooks (D1)	
		mace (BC)						
Field Observati			M - V	Danth (inch.	V.	Motlond		
Surface Water I Water Table Pre				Depth (inche		Wetland	Vaa	Na V
	-				es): > 16"	Hydrology	Yes	No X
Saturation Pres (includes capilla	•		NO	рерш (шоле	es): <u>> 16"</u>	Present?		
(,g. ,							
Describe Reco	orded Data (stream ç	gauge, moni	itoring well, aerial ph	notos, previou	us inspections), if	f available:		
Remarks:	haut							
Soils dry through	nout.							

Project/Site: Camas Heights		City/Count	ty: Camas/ Clark		Sampling Date	e: 4/14/	2021
Applicant/Owner: Lennar Northwest, Inc.		_ ′		State: WA		Point:	
Investigator(s): Stacey Reeed, PWS and S	onya Templeton	Section	, Township, Ranç	ge: Sec. 21, T.2N., R.3E.	, W.M.		
Landform (hillslope, terrace, etc.): Hillslo	ре		Local relief (co	oncave, convex, none):	Concave	Slope (%):	<5%
Subregion (LRR): A. Northwest Forests ar	nd Coast La	t: 45.644458	Lor	ng: <u>-122.43602664</u>	Datur	n:	
Soil Map Unit Name: Hesson clay	loam (Unit HcB), 0% to 8%	slopes; Non-hyd	dric	NWI o	lassification:	none	1
Are climatic / hydrologic conditions on the s				es X No		ain in Remar	
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly d	isturbed? A	re "Normal Circumstance			No
				f needed, explain any an		•	
SUMMARY OF FINDINGS - Atta	ch site map showing	ı sampling p	oint location	s, transects, impo	rtant feature	s, etc.	
Hydrophytic Vegetation Present?		0	l				
Hydric Soil Present?		0	Is the Sampl				
Wetland Hydrology Present?	Yes X N	0	within a Wet	riand? Yes	<u> </u>		
Precipitation: According to the NWS Vancouver weather	station, 0.00 inches of rainf	all was received	on the day of the	e site visit and 0.09 inche	es within the two	weeks prior.	
Remarks: Wetland B							
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test wo			
Tree Stratum (Plot Size: 30' r or)	% Cover	Species?	<u>Status</u>	Number of Dominant	Species		
1.				That Are OBL, FACV	/, or FAC:	2	(A)
2.							
3.				Total Number of Dom	ninant		
4				Species Across All S	trata:	2	(B)
		otal Cover					
Sapling/Shrub Stratum (Plot Size: 10' r or	<u> </u>			Percent of Dominant	Species		
1. 2.				That Are OBL, FACV		<u>100%</u>	(A/B)
3.				Prevalence Index was Total % Cover of		··	
·							_
4 5.		-			x 1 =	0	
0.					0 x 2 = 5 x 3 =	180	
Herb Stratum (Plot Size: 5' r or)	= To	otal Cover		· · —	5 x 3 = 2 x 4 =	<u>45</u> 8	
·	CO0/	V	EAC)A/	· · · · · · · · · · · · · · · · · · ·	x 5 =		
Juncus effusus Phalaris arundinacea	60%	Yes	FACW		7 (A)	0	(B)
	30%	Yes	FACW	Prevalence Index	· /	233	(D)
Holcus lanatus Galium aparine	<u>15%</u> 2%	No No	FACU FACU	Hydrophytic Vegeta			
5.	270	No	FACU	1 - Rapid Test for			
6.				X 2 - Dominance To		gotation	
7.				X 3 - Prevalence In			
8.				4 - Morphological		Provide sunno	ortina
9.				<u> </u>	ks or on a sepa		Jilling
10.				5 - Wetland Non-	•	,	
 11.				Problematic Hydr			1
Woody Vine Stratum (Plot Size: 10' r or	107% = To	otal Cover		¹ Indicators of hydric s be present.			
1		otal Cover		Hydrophytic Vegetation Present?	Yes X No	·	
Remarks:							
remars.							
L							

Profile Description (Describs to the depth needed to document the indicator or confirm the absence of indicators): Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc² Toxture Remarks 0-10 10 10/R 3/2 90 5/R 3/4 10 C M SIGL 10-14 10/R 3/2 80 5/R 3/4 10 C M SIGL 7.5/R 3/4 10 C M SIGL 8.5/R 3/4 10 C M SIGL 8.5/R 3/4 10 C M M SIGL 9.5/R 3/R 3/R 3/R 3/R 3/R 3/R 3/R 3/R 3/R 3	SOIL							Sampling Point:	15
Color (most) % Color (most) % Type Loc ² Texture Remarks	Profile Descript	tion (Describe to th	ne depth nee	ded to document the	indicator or co	nfirm the abse	nce of indicators		,
9-10 10YR 32 90 5YR 34 10 C M SICL 10-14 10YR 32 80 5YR 34 10 C M SICL 7.5YR 34 10 C M SICL 8.5 M M M SICL 8.5 M M SICL 8.5 M M SICL 8.5 M M M SICL 8.5 M M M SICL 8.5 M M SICL 8.5 M M SICL 8.5 M M SICL 8.5 M M M SICL 8.5 M M SICL	Depth	Matrix	x		Redox Fe	atures			
10-14		Color (moist)	%	Color (moist)			Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains.	0-10		90		10		M	SiCL	
"Type: C=Concentration, D=Deptetion, RM=Reduced Matrix CS=Covered or Coated Sand Grains. "Location: PL=Ports Lining, M=Matrix. "Histosol (A1)	10-14	10YR 3/2	80	5YR 3/4	10	С	M	SiCL	
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):				7.5YR 3/4	10	С	M		
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):									
Public Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histoso (A1) All Histos Epipedon (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Meda (A12) Sandy Gleyed Matrix (F3) Sandy Gleyed Matrix (F3) Depleted Below Dark Surface (A12) Sandy Gleyed Matrix (S4) Redox Depressions (F8) **Present? **Present?** **Present?** **Present of Redox Depressions (F8) **Present?** **Present of Redox Depressions (R8) **Present?** **Present of Redox Depressions (R8) **Present?** **Present.**									
Public Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histoso (A1) All Histos Epipedon (A2) Black Histic (A3) Black Histic (A3) Black Histic (A3) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Meda (A12) Sandy Gleyed Matrix (F3) Sandy Gleyed Matrix (F3) Depleted Below Dark Surface (A12) Sandy Gleyed Matrix (S4) Redox Depressions (F8) **Present? **Present?** **Present?** **Present of Redox Depressions (F8) **Present?** **Present of Redox Depressions (R8) **Present?** **Present of Redox Depressions (R8) **Present?** **Present.**									
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted):									
Public Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histoso (A1) Histos Epipedon (A2) Black Histo (A3) Black Histo (A3) Black Histo (A3) Depleted Matrix (S8) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Redox (A12) Sandy Redox (B1) Sandy Mereal (F1) Sandy Gleyed Matrix (S4) Depleted Below Dark Surface (A11) Depleted Dark Surface (A12) Sandy Gleyed Matrix (S4) Redox Depressions (F8) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Restrictive Layer (if present): Type: Depleted Dark Surface (F6) Sandy Merey (Matrix (S4) Redox Depressions (F8) **Present? **Weter-Stained Leaves (B9) (Marca 1, 2, 4, and 4B) Saurface Water (A1) Water Table (A2) Salt Crust (B41) Water Table (A2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Oxidized Rhizospheres and Living Roots (C3) Fresent or Newton Aquitar (D3) Algal Mat or Crust (B4) Fresent or Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Surface Water Present? Yes X No Depth (inches): No Dept									
Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosa (A1) Sandy Redox (S5) Bilack Histo (A2) Stripped Matrix (S6) Bilack Histo (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Lydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Lydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Matrix (F2) Thick Dark Surface (A12) Z Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Micky Matrix (S4) Redox Depleted Dark Surface (F7) Sandy Mucky Matrix (S4) Redox Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depleted Dark Surface (F7) Pyre: Type: Depth (inches): Hydric Soil Present? Water Stained Leaves (B9) (except MLRA High Water Table (A2) Saturation (A3) Saturation (A3) Sati Crust (B11) Aquatic Invertebrates (B13) Dirinage Patterns (B10) Dyr/Season Water Table (C2) Drift Deposits (B3) Cydized Rhizospheres along Living Roots (C3) Agid Mat or Crust (B4) Present? Wettand Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Surface Soil Cracks (B6) Surfac				iced Matrix CS=Covere	ed or Coated Sa	nd Grains.			
Histosol (A1)		<u> </u>							
Histic Epipedon (A2) Black Histic (A3) Loany Mlucky Mineral (F1) (except MLRA 1) Lydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (F1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Present? Type: Depth (inches): Present? Wettand Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Water (Trus) Driff Deposits (B2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Surface Water Fresent? Yes No Wetand Hydrology Yes X No Depth (inches): Wetand Hydrology Yes X No Present?	Hydric Soil Indic	cators (Applicable t	to all LRRs,	unless otherwise not	ted):		Indicators for	Problematic Hydric S	3oils³:
Black Histic (A3)	Histosol (A1))		Sandy Redox (S5	j)		2 cm Muck	(A10)	
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Medrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (E4) Restrictive Layer (if present): Type: Depth (inches): Present? Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Safter Mater Table (A2) Saturation (A3) Saft Crust (B1) Sediment Deposits (B3) Aqualic Invertebrates (B13) Aqualic Invertebrates (B13) Aqualic Invertebrates (B13) Algal Mat or Crust (B4) Iron Deposits (B3) Surface Soli Cracks (B6) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Water (C4) Presence of Reduced Iron (C4) Iron Deposits (B6) Surface (B1) Surface (B1) Surface (B1) Surface (B1) Surface (B1) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except MLRA 4A, and 4B) Drainage Patterns (B10) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soli Cracks (B6) Iron Deposits (B5) Recent Iron Reduction in Remarks) Surface Vater Present? Yes No Depth (inches): Vestand Mydrology Yes No Depth (inches): Vestand Hydrology Yes No Present? Wetland Hydrology Yes No Present? Wetland Hydrology Yes No Present? Wetland Hydrology Yes No Present?	Histic Epiped	don (A2)	-	Stripped Matrix (S	36)		Red Parent	Material (TF2)	
Depleted Below Dark Surface (A11)	Black Histic	(A3)	•	Loamy Mucky Mir	neral (F1) (excep	t MLRA 1)	Very Shallo	w Dark Surface (TF12	2)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B4) Presence of Reduced Iron (C4) Iron Deposits (B6) Surface Soil Cracks (B6) Iron Deposits (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Iron Deposits (B6) Surface Coll Cracks (B6) Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Hydrogen Sı	ulfide (A4)	r	Loamy Gleyed Ma	atrix (F2)		Other (Expl	ain in Remarks)	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	Depleted Be	low Dark Surface (A	.11)	Depleted Matrix (F	F3)				
Sandy Mucky Mineral (S1)	Thick Dark S	Surface (A12)	-	X Redox Dark Surfa	ace (F6)		³ Indicators of h	vdrophytic vegetation	and wetland
Sandy Gleyed Matrix (S4)Redox Depressions (F8) problematic. Restrictive Layer (if present):	Sandy Muck	κy Mineral (S1)	-	Depleted Dark Su	ırface (F7)				
Type: Depth (inches): Hydric Soll Present? Yes x No No	Sandy Gleye	ed Matrix (S4)		Redox Depression	ns (F8)			- F	
Type: Depth (inches): Hydric Soll Present? Yes X No No No No No No No	Restrictive Laye	er (if present):							
Present? Yes X No Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Surface Water (A1)	-						Hydric Soil		
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) Aq. and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B3) Surface Netzer (For Reduced Iron (C4) Surface Soil Cracks (B6) Surface Water (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Vetsent? Ves X No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						1	-	V V	No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Saturation (A3) Satt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Cydized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Cher (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			·				Present?	Yes X	
Secondary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks:		·				Present?	Yes X	
Surface Water (A1) High Water Table (A2) At, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Drianage Patterns (B10) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks:	Y					Present?	Yes X	
High Water Table (A2) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) X FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Frost-Heave Hummocks (D7) Wetland Water Table Present? Yes No X Depth (inches): Vettand Hydrology Yes X No Present?	Remarks: HYDROLOG' Wetland Hydrolo	Y logy Indicators:	·eauired: chea	ck all that apply)					
Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Surface Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: HYDROLOG Wetland Hydrolo Primary Indicator	Y logy Indicators: rs (minimum of one r	equired; chec		aves (B9) (excel	ot MI RA	Secondary India	cators (2 or more requ	uired)
Water Marks (B1)	Remarks: HYDROLOG' Wetland Hydrolo Primary Indicator Surface Wat	Y logy Indicators: rs (minimum of one r ter (A1)	equired; chec	Water-Stained Le	. ,	ot MLRA	Secondary Indi	cators (2 or more requested Leaves (B9) (MLR	uired)
Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Stunted or Stressed Plants (D1) (LRR A) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Ageomorphic Position (D2) X Shallow Aquitard (D3) X FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Yes X No Depth (inches): Saturation Present? Yes X No Present?	Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2)	equired; chec	Water-Stained Lea	. ,	ot MLRA	Secondary India Water-Stair 4A, and	cators (2 or more requ ned Leaves (B9) (MLR 4B)	uired)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water T Saturation (A	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3)	equired; chec	Water-Stained Le 1, 2, 4A, and 4t Salt Crust (B11)	В)	ot MLRA	Secondary India Water-Stair 4A, and 4	cators (2 or more requ ned Leaves (B9) (MLR 4B) atterns (B10)	uired)
Algal Mat or Crust (B4)	HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water Saturation (A	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1)	equired; chec	Water-Stained Le- 1, 2, 4A, and 4f Salt Crust (B11) Aquatic Invertebra	B) ates (B13)	ot MLRA	Secondary India Water-Stair 4A, and 4 Drainage P	cators (2 or more requ ned Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2)	<u>uired)</u> RA 1, 2,
Iron Deposits (B5)	Remarks: HYDROLOG Wetland Hydrole Primary Indicator Surface Wate High Water To Saturation (A Water Marks Sediment De	Y logy Indicators: rs (minimum of one r) ter (A1) Table (A2) A3) s (B1) eposits (B2)	equired; chec	Water-Stained Le. 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide	B) ates (B13) Odor (C1)		Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation	cators (2 or more requested Leaves (B9) (MLR 4B) latterns (B10) n Water Table (C2) Visible on Aerial Image	<u>uired)</u> RA 1, 2,
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Saturation Present? Yes X No Saturation Present? Yes X No Saturat	Remarks: HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A) Water Marks Sediment De Drift Deposit	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3)	required; chec	Water-Stained Le. 1, 2, 4A, and 4f Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi	B) ates (B13) Odor (C1) oheres along Livir		Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) atterns (B10) Water Table (C2) Visible on Aerial Image	<u>uired)</u> RA 1, 2,
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present?	Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4)	required; chec	Water-Stained Le. 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu	B) ates (B13) Odor (C1) heres along Livinuced Iron (C4)	ng Roots (C3)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation X Geomorphi Shallow Aq	cators (2 or more requested Leaves (B9) (MLR 4B) l'atterns (B10) n Water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3)	<u>uired)</u> RA 1, 2,
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): > 14" Hydrology Yes X No Saturation Present? Yes X No Depth (inches): 14" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water To Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits	Y logy Indicators: rs (minimum of one r) ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4)	required; chec	Water-Stained Le- 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu	ates (B13) Odor (C1) Oheres along Livin uced Iron (C4) uction in Tilled Sc	ng Roots (C3) bils (C6)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra	cators (2 or more requested Leaves (B9) (MLR 4B) atterns (B10) n Water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3)	uired) RA 1, 2, ery (C9)
Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): > 14" Hydrology Yes X No Saturation Present? Yes X No Depth (inches): 14" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wat High Water T Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil	Y logy Indicators: rs (minimum of one r) ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) I Cracks (B6)	- - - - - -	Water-Stained Le- 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) Oheres along Livin uced Iron (C4) uction in Tilled So ed Plants (D1) (Li	ng Roots (C3) bils (C6)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant	cators (2 or more requested Leaves (B9) (MLR 4B) l'atterns (B10) n Water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)	uired) RA 1, 2, ery (C9)
Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): > 14" Hydrology Yes X No Saturation Present? Yes X No Depth (inches): 14" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) • Crust (B4) ts (B5) I Cracks (B6) //sible on Aerial Imag	- - - - - gery (B7)	Water-Stained Le- 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) Oheres along Livin uced Iron (C4) uction in Tilled So ed Plants (D1) (Li	ng Roots (C3) bils (C6)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant	cators (2 or more requested Leaves (B9) (MLR 4B) l'atterns (B10) n Water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)	uired) RA 1, 2, ery (C9)
Water Table Present? Yes No X Depth (inches): > 14" Hydrology Yes X No Depth (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: HYDROLOG' Wetland Hydrolo Primary Indicator Surface Wat High Water T Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Ve	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) //isible on Aerial Image	- - - - - gery (B7)	Water-Stained Le- 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stress	ates (B13) Odor (C1) Oheres along Livin uced Iron (C4) uction in Tilled So ed Plants (D1) (Li	ng Roots (C3) bils (C6)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant	cators (2 or more requested Leaves (B9) (MLR 4B) l'atterns (B10) n Water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)	uired) RA 1, 2, ery (C9)
Saturation Present? Yes X No Depth (inches): 14" Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wate High Water Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet Field Observation	Y logy Indicators: rs (minimum of one r) ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) I Cracks (B6) Visible on Aerial Images	gery (B7) urface (B8)	Water-Stained Le- 1, 2, 4A, and 4E Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stresse Other (Explain in I	ates (B13) c Odor (C1) cheres along Livin uced Iron (C4) uction in Tilled So sed Plants (D1) (I Remarks)	ng Roots (C3) bils (C6) LRR A)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave	cators (2 or more requested Leaves (B9) (MLR 4B) l'atterns (B10) n Water Table (C2) Visible on Aerial Image c Position (D2) uitard (D3) al Test (D5) Mounds (D6) (LRR A)	uired) RA 1, 2, ery (C9)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: HYDROLOG Wetland Hydrolo Primary Indicator Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vec Field Observation	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) Crust (B4) ts (B5) I Cracks (B6) /isible on Aerial Image getated Concave Su ons: Present? Yes	gery (B7) urface (B8)	Water-Stained Le. 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizosp Presence of Redu Recent Iron Redu Stunted or Stresso Other (Explain in I	ates (B13) Codor (C1) Coheres along Livin Luced Iron (C4) Luction in Tilled So Living Area (D1) (I Remarks) Depth (inches):	ng Roots (C3) bils (C6) LRR A)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave	cators (2 or more requested Leaves (B9) (MLR 4B) latterns (B10) In Water Table (C2) Visible on Aerial Image or Position (D2) luitard (D3) lal Test (D5) Mounds (D6) (LRR A) le Hummocks (D7)	<u>uired)</u> RA 1, 2, ery (C9)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Remarks: HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water P Water Table Pre	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) Visible on Aerial Image regetated Concave Su ons: Present? Yes esent? Yes	gery (B7) urface (B8)	Water-Stained Le. 1, 2, 4A, and 4f Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stressi Other (Explain in I	ates (B13) Codor (C1) Coheres along Livin Luced Iron (C4) Luction in Tilled Sc Led Plants (D1) (I Remarks) Depth (inches): Depth (inches):	ng Roots (C3) bils (C6) LRR A) > 14"	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation \(\text{X} \) Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology	cators (2 or more requested Leaves (B9) (MLR 4B) latterns (B10) In Water Table (C2) Visible on Aerial Image or Position (D2) luitard (D3) lal Test (D5) Mounds (D6) (LRR A) le Hummocks (D7)	<u>uired)</u> RA 1, 2, ery (C9)
	Remarks: HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water Talge Pressit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water P Water Table Pressit Saturation Pressit	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) Visible on Aerial Image getated Concave Su ons: Present? Yes ent? Yes ent? Yes	gery (B7) urface (B8)	Water-Stained Le. 1, 2, 4A, and 4f Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stressi Other (Explain in I	ates (B13) Codor (C1) Coheres along Livin Luced Iron (C4) Luction in Tilled Sc Led Plants (D1) (I Remarks) Depth (inches): Depth (inches):	ng Roots (C3) bils (C6) LRR A) > 14"	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation \(\text{X} \) Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology	cators (2 or more requested Leaves (B9) (MLR 4B) latterns (B10) In Water Table (C2) Visible on Aerial Image or Position (D2) luitard (D3) lal Test (D5) Mounds (D6) (LRR A) le Hummocks (D7)	<u>uired)</u> RA 1, 2, ery (C9)
	Remarks: HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water Talge Pressit Algal Mat or Iron Deposits Surface Soil Inundation V Sparsely Vet Field Observatio Surface Water P Water Table Pressit Saturation Pressit	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) r Crust (B4) ts (B5) I Cracks (B6) Visible on Aerial Image getated Concave Su ons: Present? Yes ent? Yes ent? Yes	gery (B7) urface (B8)	Water-Stained Le. 1, 2, 4A, and 4f Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stressi Other (Explain in I	ates (B13) Codor (C1) Coheres along Livin Luced Iron (C4) Luction in Tilled Sc Led Plants (D1) (I Remarks) Depth (inches): Depth (inches):	ng Roots (C3) bils (C6) LRR A) > 14"	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation \(\text{X} \) Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology	cators (2 or more requested Leaves (B9) (MLR 4B) latterns (B10) In Water Table (C2) Visible on Aerial Image or Position (D2) luitard (D3) lal Test (D5) Mounds (D6) (LRR A) le Hummocks (D7)	<u>uired)</u> RA 1, 2, ery (C9)
Remarks:	Remarks: HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Vec Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillate	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c Crust (B4) ts (B5) I Cracks (B6) //isible on Aerial Image egetated Concave Su ons: Present? Yes ent? Yes ary fringe)	gery (B7) urface (B8)	Water-Stained Lea 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stressi Other (Explain in I	ates (B13) c Odor (C1) cheres along Livin uced Iron (C4) uction in Tilled So ded Plants (D1) (I Remarks) Depth (inches): Depth (inches):	ng Roots (C3) pils (C6) LRR A)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	cators (2 or more requested Leaves (B9) (MLR 4B) latterns (B10) In Water Table (C2) Visible on Aerial Image or Position (D2) luitard (D3) lal Test (D5) Mounds (D6) (LRR A) le Hummocks (D7)	uired) RA 1, 2, ery (C9)
	Remarks: HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wate High Water To Saturation (A Water Marks Sediment De Drift Deposite Algal Mat or Iron Deposite Surface Soil Inundation V Sparsely Vec Field Observatio Surface Water P Water Table Pre Saturation Prese (includes capillate	Y logy Indicators: rs (minimum of one r ter (A1) Table (A2) A3) s (B1) eposits (B2) ts (B3) c Crust (B4) ts (B5) I Cracks (B6) //isible on Aerial Image egetated Concave Su ons: Present? Yes ent? Yes ary fringe)	gery (B7) urface (B8)	Water-Stained Lea 1, 2, 4A, and 4B Salt Crust (B11) Aquatic Invertebra Hydrogen Sulfide Oxidized Rhizospi Presence of Redu Recent Iron Redu Stunted or Stressi Other (Explain in I	ates (B13) c Odor (C1) cheres along Livin uced Iron (C4) uction in Tilled So ded Plants (D1) (I Remarks) Depth (inches): Depth (inches):	ng Roots (C3) pils (C6) LRR A)	Secondary India Water-Stair 4A, and 4 Drainage P Dry-Seasor Saturation V X Geomorphi Shallow Aq X FAC-Neutra Raised Ant Frost-Heave Wetland Hydrology Present?	cators (2 or more requested Leaves (B9) (MLR 4B) latterns (B10) In Water Table (C2) Visible on Aerial Image or Position (D2) luitard (D3) lal Test (D5) Mounds (D6) (LRR A) le Hummocks (D7)	<u>uired)</u> RA 1, 2, ery (C9)

Project/Site: Camas Heights		Citv/County	y: Camas/ Clark		Sampling Date:	4/14/2	2021
Applicant/Owner: Lennar Northwest, Inc	D.		, · <u> </u>	State: WA		Point:	16
Investigator(s): Stacey Reeed, PWS and		Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.,			
Landform (hillslope, terrace, etc.): Hills	slope		Local relief (co	oncave, convex, none):	Convex	Slope (%):	5-10
Subregion (LRR): A. Northwest Forests	and Coast	Lat: 45.644488		ng:122.43597244		_	
Soil Map Unit Name: Hesson cla	ay loam (Unit HcB), 0% to	8% slopes; Non-hyd	Iric	NWI cl	lassification:	none	
Are climatic / hydrologic conditions on the				es <u>X</u> No	` ' '		•
Are Vegetation , Soil	, or Hydrology , or Hydrology	significantly dis	sturbed? A	re "Normal Circumstance	•	Yes X	No
				f needed, explain any ans		•	
SUMMARY OF FINDINGS - At			oint location	s, transects, impor	tant features	, etc.	
Hydrophytic Vegetation Present?	Yes X		Is the Sampl	od Aroa			
Hydric Soil Present?	Yes		within a Wet	land?		.,	
Wetland Hydrology Present?	Yes	No <u>X</u>	Within a wee	rand? Yes	No	<u>x</u>	
Precipitation: According to the NWS Vancouver weather	er station, 0.00 inches of	rainfall was received	on the day of the	e site visit and 0.09 inches	s within the two w	veeks prior.	
Remarks:							
VEGETATION							
	Absolute	Dominant	Indicator	Dominance Test wor	rksheet:		
Tree Stratum (Plot Size: 30' r or	% Cover	Species?	<u>Status</u>	Number of Dominant	Species		
1				That Are OBL, FACW	, or FAC:	2 (A)
2.							
3				Total Number of Dom	inant		
4				Species Across All St	rata:	2 (B)
0 1: (0) 1 0: (7) 1 0: 10!		= Total Cover					
Sapling/Shrub Stratum (Plot Size: 10' r c 1.	<u>)</u>			Percent of Dominant S	•	4000/	
2.				That Are OBL, FACW		<u>100%</u> (A/B)
3.				Prevalence Index wo Total % Cover of			
4.				OBL species 0			
5.				FACW species 0	<u> </u>	0	_
·	0%	= Total Cover			00 x 3 =	300	_
Herb Stratum (Plot Size: 5' r or)		. 514. 5515.		FACU species 6		24	
Schedonorus arundinaceus	60%	Yes	FAC	UPL species 0	x 5 =	0	
Alopecurus pratensis	40%	Yes	FAC	Column Totals: 10		324	(B)
3. Taraxacum officinale	5%	No	FACU	Prevalence Index	= B/A =	3.06	
4. Galium aparine	1%	No	FACU	Hydrophytic Vegetat	tion Indicators:		
5.				1 - Rapid Test for	Hydrophytic Veg	etation	
6.				X 2 - Dominance Te	st is >50%		
7				3 - Prevalence Inc	dex is ≤3.0 ¹		
8				4 - Morphological			rting
9.					ks or on a separa	ite sheet)	
10				5 - Wetland Non-\			
11				Problematic Hydro	. , .	` ' '	
Woody Vine Stratum (Plot Size: 10' r or _ 1.		= Total Cover		¹ Indicators of hydric so be present.	oil and wetland h	ydrology mu:	st
2	0%	= Total Cover		Hydrophytic Vegetation Present?	Yes X No		
Remarks:							

SOIL							Sampling Point:	16
Profile Descrip	ption (Describe to the	depth nee	ded to document	the indicator or co	onfirm the abs	ence of indicators):	
Depth	Matrix			Redox Fe	atures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 3/2	100					SiL	
	. _							
				<u> </u>				
	· -			<u> </u>				
1- 0.0								
	centration, D=Depletion Pore Lining, M=Matrix.	, RM=Reau	iced Matrix US=Cov	/ered or Coated Sa	ind Grains.			
	licators (Applicable to	all LRRs,	unless otherwise	noted):		Indicators for I	Problematic Hydric S	oils ³ :
Histosol (A1			Sandy Redox (·		2 cm Muck	•	
Histic Epipe	•	-	Stripped Matrix	• •			: Material (TF2)	
Black Histic	, ,	-		Mineral (F1) (excep	pt MLRA 1)		w Dark Surface (TF12))
Hydrogen S	` ,	-	Loamy Gleyed	, , , .	,		ain in Remarks)	'
	elow Dark Surface (A1	.1)	Depleted Matri				•	
	Surface (A12)	•	Redox Dark Su	, ,		3		
Sandy Mucl	ky Mineral (S1)	-	Depleted Dark	Surface (F7)			ydrophytic vegetation a be present, unless dist	
Sandy Gley	yed Matrix (S4)		Redox Depres	sions (F8)		problematic.	DO procont, a	luibou oi
Restrictive Lay	/er (if present):							
Тур	pe:					Hydric Soil		
Depth (inches)	;):	1				Present?	Yes	No X
Remarks:					L			
HYDROLOG	<u>v</u>							
	ology Indicators:							
	ors (minimum of one re	quired; che	ck all that apply)			Secondary Indic	cators (2 or more requi	red)
Surface Wa	ater (A1)		Water-Stained	— I Leaves (B9) (exce	pt MLRA	Water-Stain	ned Leaves (B9) (MLRA	—- A 1, 2,
High Water	, ,	-	1, 2, 4A, and	, , ,		4A, and 4	` , `	,
Saturation (Salt Crust (B1				atterns (B10)	
Water Mark	(s (B1)	-	Aquatic Inverte	•			n Water Table (C2)	
Sediment D	Deposits (B2)	-	Hydrogen Sulfi	ide Odor (C1)			Visible on Aerial Image	ry (C9)
Drift Deposi	its (B3)		Oxidized Rhizo	ospheres along Livi	ing Roots (C3)	Geomorphic	c Position (D2)	
Algal Mat or	or Crust (B4)		Presence of R	educed Iron (C4)		Shallow Aqu	uitard (D3)	
Iron Deposit	its (B5)		Recent Iron Re	eduction in Tilled So	oils (C6)	FAC-Neutra	al Test (D5)	
Surface Soi	il Cracks (B6)		Stunted or Stre	essed Plants (D1) (LRR A)	Raised Ant	Mounds (D6) (LRR A)	
Inundation \	Visible on Aerial Image	ery (B7)	Other (Explain	in Remarks)		Frost-Heave	e Hummocks (D7)	
Sparsely Ve	egetated Concave Surf	face (B8)						
Field Observati	ions:							
Surface Water F	_			Depth (inches):	:	Wetland		
Water Table Pre				Depth (inches):		Hydrology	Yes	No X
Saturation Pres (includes capilla			No X	Depth (inches):	> 16"	Present?		
Describe Reco	orded Data (stream ga	auge, moni	toring well, aerial	photos, previous	inspections), i	f available:		
Damarko.								
Remarks: Soils dry through	hout							
Jone dry Emely.	nout.							
Ì								

Project/Site: Camas Heights		Citv/Count	ty: Camas/ Clark		Sampling Date	e: 4/15/2	2021
Applicant/Owner: Lennar Northwest, Inc.			.,. <u></u>	State: WA		Point:	
Investigator(s): Stacey Reeed, PWS and S	Sonya Templeton	Section,	, Township, Rang	ge: Sec. 21, T.2N., R.3E.			
Landform (hillslope, terrace, etc.): Hillslo	ре	_	Local relief (co	oncave, convex, none):	None	Slope (%):	<3%
Subregion (LRR): A. Northwest Forests an	nd Coast La	t: 45.644063		ng: -122.43694304	Datum	ı:	
Soil Map Unit Name: Hesson clay I	loam (Unit HcB), 0% to 8%	slopes; Non-hyd	dric	NWI c	lassification:	none	
Are climatic / hydrologic conditions on the s				es X No	(If no, expla	ain in Remarl	ks)
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly di	isturbed? A	re "Normal Circumstance	•		No
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (l	f needed, explain any ans	wers in Remarks	s.)	
SUMMARY OF FINDINGS - Atta	ch site map showing	sampling p	oint location	s, transects, impor	tant features	s, etc.	
Hydrophytic Vegetation Present?		0	l				
Hydric Soil Present?		0	Is the Sampl				
Wetland Hydrology Present?	Yes X N	0	within a Wet	iand? Yes X	No		
Precipitation: According to the NWS Vancouver weather	station, 0.00 inches of rainf	all was received	on the day of the	e site visit and 0.09 inche	s within the two v	weeks prior.	
Remarks: Wetland B							
VEGETATION				ı			
T 01 1 (5) 101 255	Absolute	Dominant	Indicator	Dominance Test wo			
Tree Stratum (Plot Size: 30' r or) 1.	% Cover	Species?	<u>Status</u>	Number of Dominant			
2.				That Are OBL, FACW	, or FAC:	2	(A)
3.							
4.				Total Number of Dom			(5)
				Species Across All St	rata:	2	(B)
Cardinar/Charde Chartera / Diet Ciace 401 a.a.		otal Cover		Daniel of Daniel and	0		
Sapling/Shrub Stratum (Plot Size: 10' r or 1.				Percent of Dominant	•	100%	(A (D)
2.				That Are OBL, FACW		100 70	(A/B)
3.				Prevalence Index wo Total % Cover of			
4.					x 1 =	0	-
5.				FACW species (0	
		otal Cover			00 x 3 =	300	
Herb Stratum (Plot Size: 5' r or)		otal Covel			x 4 =	0	
Alopecurus pratensis	60%	Yes	FAC	·	x 5 =	0	
2. Holcus lanatus	20%	Yes	FAC	Column Totals: 10		300	(B)
3. Juncus tenuis	10%	No	FAC	Prevalence Index	• /	3.00	(/
4. Poa species	10%	No	FAC*	Hydrophytic Vegeta			
5.	1070		1710	1 - Rapid Test for		getation	
6.				X 2 - Dominance Te	, , ,		
7.				X 3 - Prevalence Inc			
 8.				4 - Morphological		rovide suppo	ortina
9.				<u> </u>	ks or on a separa	• • •	9
10.				5 - Wetland Non-	•	,	
 11.				Problematic Hydr		on (Explain) ¹	
Woody Vine Stratum (Plot Size: 10' r or	100% = To	otal Cover		¹ Indicators of hydric s be present.	oil and wetland h	nydrology mu	ıst
1		otal Cover		_	Yes X No		
	<u>%</u>			Present?			
Remarks: *Assumed FAC.							

SOIL							Sampling Point:	17
Profile Descrip	otion (Describe to	the depth need	ded to document th	e indicator or	confirm the abse	ence of indicators	s):	
Depth	Mat	rix		Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7	10YR 3/2	100					SiL	-
7-16	10YR 3/2	95	7.5YR 3/4	5	C	M	SiL	
	. <u></u>						·	-
	entration, D=Deple Pore Lining, M=Mat		ced Matrix CS=Cove	red or Coated	Sand Grains.			
	<u> </u>		unless otherwise no	oted):		Indicators for	Problematic Hydric S	Soils ³ :
Histosol (A1		·	Sandy Redox (S	•		2 cm Muck	•	
Histic Epipe	•	-	Stripped Matrix (•			t Material (TF2)	
Black Histic	, ,	-	Loamy Mucky M	•	cept MI RA 1)		ow Dark Surface (TF12)
Hydrogen S	` ,	-	Loamy Gleyed M		55pt <u>=</u> . 5 t .)		lain in Remarks)	,
	elow Dark Surface	(A11)	Depleted Matrix				,	
	Surface (A12)	· · ·	X Redox Dark Surf	. ,				
	ky Mineral (S1)	-	— Depleted Dark S	. ,			ydrophytic vegetation a	
	red Matrix (S4)	-	Redox Depression	, ,		problematic.	t be present, unless dis	sturbed or
Restrictive Lay	er (if present):	-		· , ,				
Тур						Hydric Soil		
Depth (inches	-					Present?	Yes X	No
	,	_						
Remarks:	! :- ! !							
Pieces of charco	oal in lower layer.							
HYDROLOG	iY							
	logy Indicators:							
Primary Indicato	ors (minimum of one	e required: chec	ck all that apply)			Secondary Indi	cators (2 or more requ	ired)
Surface Wa			Water-Stained Lo	- eaves (R9) (ex	cent MI RA		ned Leaves (B9) (MLR	
High Water	` '	-	1, 2, 4A, and 4	. , ,		4A, and	` , `	, _,
Saturation (Salt Crust (B11)	.5,			Patterns (B10)	
Water Mark	,	-	Aquatic Inverteb	rates (B13)			n Water Table (C2)	
	eposits (B2)	-	Hydrogen Sulfide	, ,			Visible on Aerial Image	erv (C9)
Drift Deposi		-	Oxidized Rhizos		iving Roots (C3)		ic Position (D2)	, ()
Algal Mat o	` ,	-	Presence of Red	-	- , ,	Shallow Aq		
Iron Deposi	, ,	-	Recent Iron Red	`	•		al Test (D5)	
	il Cracks (B6)	-	Stunted or Stress		` ,		: Mounds (D6) (LRR A)	
	Visible on Aerial Im	agery (B7)	X Other (Explain in	•	, ,		re Hummocks (D7)	
	egetated Concave S	-		,			,	
Field Observati		(- /						
Surface Water I		.0	No. V	Donth (inch	vo).	Wotland		
Water Table Pro		s		Depth (inche		Wetland	. Voc V	No
Saturation Pres		ss			es): > 16" es): > 16"	Hydrology Present?	Yes X	No
(includes capilla			NOX	Бериі (іііспе	·s). / 10	Fresenti		
Describe Reco	orded Data (stream	n gauge, monit	oring well, aerial ph	notos, previou	ıs inspections), if	f available:		
			•					
Remarks: Plot likely has w	etland hydrology in	dicators during	early portion of the o	rowing seasor	n during a normal i	rainfall period base	ed on presence of hydr	ic soil indicators
stsiy mas w	, arology iii		, po or allo g	, 5 554501				

Project/Site: Camas Heights		Citv/Coun	ty: Camas/ Clark		Sampling Date:	: 4/15/2	2021
Applicant/Owner: Lennar Northwest, Inc.			., <u></u>	State: WA		Point:	
Investigator(s): Stacey Reeed, PWS and		Section	, Township, Rang	ge: Sec. 21, T.2N., R.3E.			
Landform (hillslope, terrace, etc.): Hillsl	ope		Local relief (co	oncave, convex, none):	None	Slope (%):	<3%
Subregion (LRR): A. Northwest Forests a	and Coast	Lat: 45.643988		ng: <u>-122.43694515</u>		: <u> </u>	
Soil Map Unit Name: Hesson clay	loam (Unit HcB), 0% to 8	3% slopes; Non-hy			lassification:	none	
Are climatic / hydrologic conditions on the				es X No	(If no, expla		
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly d	listurbed? A	re "Normal Circumstance			No
Are Vegetation, Soil	, or Hydrology	naturally prob	olematic? (l	f needed, explain any ans	wers in Remarks	s.)	
SUMMARY OF FINDINGS - Atta				s, transects, impor	tant features	, etc.	
Hydrophytic Vegetation Present?	Yes <u>X</u>	No	l				
Hydric Soil Present?	Yes	No <u>X</u>	Is the Sampl				
Wetland Hydrology Present?	Yes	No <u>X</u>	within a Wet	riand? Yes	No	<u>X</u>	
Precipitation: According to the NWS Vancouver weather	r station, 0.00 inches of ra	infall was received	on the day of the	e site visit and 0.09 inche	s within the two v	veeks prior.	
Remarks:							
VEGETATION							
VEGETATION	Absolute	Dominant	Indicator	Dominance Test wo	rkshoot:		
Tree Stratum (Plot Size: 30' r or)		Species?	Status	Number of Dominant			
1.	<u>,,, octo.</u>	<u> </u>	<u> </u>	That Are OBL, FACW		1	(A)
2.							(* ')
3.				Total Number of Dom	inant		
4.				Species Across All St		1	(B)
	0% =	Total Cover		'			()
Sapling/Shrub Stratum (Plot Size: 10' r or)			Percent of Dominant	Species		
1.				That Are OBL, FACW	, or FAC:	<u>100%</u>	(A/B)
2.				Prevalence Index wo	rksheet:		
3.				Total % Cover of	f: Multiply by:		-
4.				OBL species (x 1 =	0	
5.				FACW species (x 2 =	0	
	0% =	Total Cover		FAC species 10	00 x 3 =	300	
Herb Stratum (Plot Size: 5' r or)				FACU species 0	x 4 =	0	
Alopecurus pratensis	80%	Yes	FAC	UPL species (x 5 =	0	
2. Holcus lanatus	10%	No	FAC	Column Totals: 10	00 (A)	300	(B)
3. Poa species	10%	No	FAC*	Prevalence Index	= B/A =	3.00	
4				Hydrophytic Vegeta	ion Indicators:		
5				1 - Rapid Test for	Hydrophytic Veg	getation	
6				X 2 - Dominance Te			
7				X 3 - Prevalence Inc			
8				4 - Morphological			orting
9.					ks or on a separa	ate sheet)	
10.				5 - Wetland Non-			
11				Problematic Hydr			
Woody Vine Stratum (Plot Size: 10' r or	100% =	Total Cover		¹ Indicators of hydric s	oil and wetland h	ydrology mu	ıst
1.				be present.			
2.				Hydrophytic			
% Bare Ground in Herb Stratum	0% =	Total Cover		Vegetation Present?	Yes X No		
Remarks:				1			
*Assumed FAC.							

Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histosol (A2) Stripped Matrix (S6) Red Parent Material (TF2) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Depleted 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 Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Hydrogy must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No X	SOIL							Sampling Point:	18
Color (moist) Sc. Color (moist) Sc. Color (moist) Sc. Type Loc Texture Remarks	Profile Descrip	tion (Describe to t	he depth need	ded to document th	ne indicator or	r confirm the abse	ence of indicators	s):	
1978 1978 32 190 1978 32 190 7.5 YR 3/3 5 C M Sil. +	Depth	Matr	rix		Redox	(Features			
12-16 10VR 3/2 95 7.5VR 3/3 5 C M Sit + Type: C-Concentration, D-Depletion, RM-Reduced Matrix CS-Covered or Costed Sand Grains. Location: PL-Prior Lining, M-Matrix. Type: C-Concentration, D-Depletion, RM-Reduced Matrix CS-Covered or Costed Sand Grains. Location: PL-Prior Lining, M-Matrix. Phydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histocal (A1) Haltic Epipedro (A2) Stippedro (A2) Stipped	(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix CS=Covered or Coated Sand Grains. Location: PL=Pore Lilning, M=Matrix Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A1) Histosol (A2) Sliripped Matrix (S5) Bluck Histic (A3) Loarny Micry Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loarny Micry Mineral (F2) Depleted Belov Dark Surface (A11) Depleted Matrix (F3) Trinck Dark Surface (A12) Depleted Dark Surface (F8) Sandy Mucry Mineral (S1) Sandy Mucry Mineral (S1) Sandy Mucry Mineral (S1) Peelsted Dark Surface (F8) Prosent? Type: Depth (inches): Pype: Depth (inches): Hydric Soil Present? Wetland Hydrology Indicators: Primary Indicators (F1) Water Marks (B1) Water Marks (B1) Water Marks (B1) Aquatic Invertebrates (B13) Application (A2) Salturation (A3) Salturation (A3) Salturation (A3) Salturation (A3) Application (A3) Application (B3) Application (B3) Application (B3) Application (B3) Application (B3) Depth (inches): Presence of Reduced Inon (C4) Presence of Reduced Inon (C4) Presence of Reduced Inon (C4) Final Process (B6) Surface Water (B3) Surface Water (B4) Present (P ves No X Depth (inches): Final Hydrology Yes No X Present? Field Observations: Surface Water Present? Ves No X Depth (inches): Field Observations: Surface Water Present? Ves No X Depth (inches): Present? Final Hydrology Yes No X Present? Final Hydrology Fest (B4) Present?	0-12	10YR 3/2	100					SiL	
Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators (Applicable to all LRRs, unless otherwise noted): Histoce (A1)	12-16	10YR 3/2	95	7.5YR 3/3	5	C	M	SiL+	
**Public Coll Indicators (Applicable to all LRRs, unless otherwise noted):									
**************************************		. <u> </u>							
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Hydric Soll Indicators (Applicable to all LRRs, unless otherwise noted): Histoce (A1)				ced Matrix CS=Cove	ered or Coated	Sand Grains.			
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histosol (A2) Stripped Matrix (S6) Red Parent Material (TF2) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Depleted 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 Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Hydrogy must be present, unless disturbed or problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No X	² Location: PL=P	ore Lining, M=Matr	ix.						
Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Lydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (except MLRA 1) Lydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Redox Dark Surface (A12) Sandy Mucky Mineral (S1) Loapied Dark Surface (F8) Redox Depressions (F8) Restrictive Layer (if present): Type: Type: Depth (inches): Hydric Soil Present? Yes No X Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water Stained Leaves (B9) (except MLRA High Water Table (A2) Saturation (A3) Salt Crust (B11) Mater Marks (B1) Aqualic Invertebrates (B13) Dorinage Patterns (B10) Dirift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Agal Mat or Crust (B4) Iron Deposits (B3) Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Yes No X Depth (inches): Jeff Observations: Surface Water Present? Yes No X Depth (inches): Jeff Observations: Surface Water Present? Yes No X Depth (inches): Jeff Observations: Surface Water Present? Yes No X Depth (inches): Jeff Observations: Surface Water Present? Yes No X Depth (inches): Jeff Observations, if available: Remarks:	Hydric Soil Indi	cators (Applicable	∍ to all LRRs, ເ	unless otherwise n	oted):		Indicators for	Problematic Hydric Sc	oils³:
Black Histic (A3)	Histosol (A1	1)	-	Sandy Redox (S	35)		2 cm Muck	(A10)	
Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Deplit (inches): Present? Water Albie (A2) Surface (A11) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Saturation (A3) Satiration (A4) Satiration (A5) Sa	Histic Epipe	don (A2)	_	Stripped Matrix	(S6)		Red Paren	ıt Material (TF2)	
Depleted Below Dark Surface (A11)	Black Histic	(A3)	_	Loamy Mucky N	∕lineral (F1) (ex	(cept MLRA 1)	Very Shall	ow Dark Surface (TF12)	
Thick Dark Surface (A12)	Hydrogen S	ulfide (A4)	_	Loamy Gleyed I	Matrix (F2)		Other (Exp	olain in Remarks)	
Sandy Mucky Mineral (S1)	Depleted Be	elow Dark Surface (A11) _	Depleted Matrix	(F3)				
Sandy Mucky Mineral (S1)	Thick Dark S	Surface (A12)	-	Redox Dark Sur	rface (F6)		³ Indicators of h	oudrophytic vegetation a	nd wetland
Restrictive Layer (if present):		. ,	_		, ,			, , , ,	
Hydric Soil Present? Yes No X	Sandy Gleye	ed Matrix (S4)	_	Redox Depress	ions (F8)			•	
Present? Yes No X Remarks: HYDROLOGY	Restrictive Lay	er (if present):							
Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except MLRA Mater-Stained Leaves (B9) (except MLRA Mater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Aquatic Invertebrates (B13) Drainage Patterns (B10) Drainage Patte	Тур	ре: 					Hydric Soil		
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Sediment Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Crack (B6) Surface Soil Crack (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Vest Water Able (C2) Surface Water (A1) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Ves No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Depth (inches)):					Present?	Yes	No <u>X</u>
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Drift Deposits (B2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Indudation Visible on Aerial Imagery (B7) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Water Present? Yes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Secondary Indicators (2 or more required) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) At A, and 4B) At A, and 4B) Drainage Patterns (B10) Primary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) At A, and 4B) At A, and 4B) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Prosinage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Drainage Patterns (B10) Forsinage Patterns (B10) Saturation (visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) Frost-Heave Hummocks (D7) Present? Wetland Hydrology Yes No X Present? Present? Present? Present? Present? Present? Present? Present? Present? Wetland Hydrology Yes No X Present? Present? Present? Present? Present? Present? Present? Present? Present?	<u> </u>	_	_	_	_	_	_	_	_
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water (A1) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Research (TRA) Face Research (Ra) Fresh (Ra) Present?									
Surface Water (A1) Water-Stained Leaves (B9) (except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10) Ada An 4B) Drainage Patterns (B10) Saturation Visible on Aerial Imagery (C3) FAC-Neutral Test (D5) FAC-Neutral Test (D5) FAC-Neutral	_								
High Water Table (A2) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Wetland Hydrology Wes No X Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Primary Indicator	rs (minimum of one	required; chec		_		· ·	•	
Saturation (A3) Salt Crust (B11) Quater Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Visible in Aerial Present? Yes No X Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Private Aquation Visible on Aerial Imagery (B7) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Yes No X Present? Present? Present? Present? Remarks:		` ,	_		, , ,	cept MLRA	Water-Stai	ned Leaves (B9) (MLRA	. 1, 2,
Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Depth (inches): Saturation Present? Yes No X Depth (inches): Present? Yes No X Depth (inches): Present? Present? Present? Present? Present? Remarks:								,	
Sediment Deposits (B2)			-		•			, ,	
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Algal Mat or Crust (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Seturation Present? Frost-Heave Hummocks (D7) Wetland Hydrology Yes No X Depth? Present? Present? Present? Present?		•	-		` ,			` ,	
Algal Mat or Crust (B4)		. , ,	-		` ,	(20)		_	y (C9)
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Vater Table Present? Yes No X Depth (inches): > 16" Saturation Present? Yes No X Depth (inches): > 16" Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		` '	_			- , ,		, ,	
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): > 16" Hydrology Yes No X Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		, ,	-		`	,		• • • •	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): > 16" Hydrology Yes No X Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		` '	-			, ,		, ,	
Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Wetland Water Table Present? Yes No X Depth (inches): _ > 16" Hydrology Yes No X Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		` '	·		•	1) (LRR A)		, , , , ,	
Field Observations: Surface Water Present? Yes No X Depth (inches): Hydrology Yes No X Saturation Present? Yes No X Depth (inches): > 16" Hydrology Yes No X Saturation Present? Yes No X Depth (inches): > 16" Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			_	Other (Explain i	n Remarks)		Frost-Heav	/e Hummocks (D7)	
Surface Water Present? Yes No X Depth (inches): Hydrology Yes No X Saturation Present? Yes No X Depth (inches): > 16" (includes capillary fringe) Present? Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			urface (B8)						
Water Table Present? Yes No X Depth (inches): > 16" Hydrology Yes No X Saturation Present? Yes No X Depth (inches): > 16" Present? Comparison of the present of the presen	Field Observation	ons:					T		
Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:					Depth (inche	es):	Wetland		
Saturation Present? Yes No X Depth (inches): > 16" Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Water Table Pre				Depth (inche	es): > 16"	Hydrology	/ Yes	No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		sent? Yes			Depth (inche	es): > 16"	Present?		
Remarks:	(includes capılla	iry fringe)							
Remarks:	Describe Reco	orded Data (stream	gauge, monit	oring well. aerial p	hotos, previo	us inspections), if	 f available;		
	5 000	1404 2414 (2412)	9	J	110100, p. 1	,,			
Soils dry throughout.	Remarks:								
		nout.							

Project/Site: Camas Heights		City/County	/: Camas/ Clark		Sampling Date:	4/14/2021
Applicant/Owner: Lennar Northwest	, Inc.			State: WA	Sampling P	
Investigator(s): Stacey Reeed, PWS	and Sonya Templeton	Section,	Township, Rang	ge: Sec. 21, T.2N., R.3E.,	W.M.	
Landform (hillslope, terrace, etc.):	Hillslope		Local relief (co	oncave, convex, none):	Convex	Slope (%): 5-10%
Subregion (LRR): A. Northwest Fore	ests and Coast	Lat: 45.644421		ng: <u>-122.43575355</u>	Datum:	
Soil Map Unit Name: Hessor	n clay loam (Unit HcB), 0% to	8% slopes; Non-hyd	ric	NWI cl	assification:	none
Are climatic / hydrologic conditions or			Υe	es X No	(If no, explai	n in Remarks)
Are Vegetation, Soil	, or Hydrology , or Hydrology	significantly dis	sturbed? Ar	re "Normal Circumstances	•	Yes X No
Are Vegetation, Soil _	, or Hydrology	naturally proble	ematic? (If	f needed, explain any ans	wers in Remarks.	.)
SUMMARY OF FINDINGS -	Attach site map show	ring sampling po	oint location	s, transects, impor	tant features,	, etc.
Hydrophytic Vegetation Present?	Yes X					
Hydric Soil Present?	Yes		Is the Sample			
Wetland Hydrology Present?	Yes	No <u>X</u>	within a Wetl	land? Yes	No	<u> </u>
Precipitation: According to the NWS Vancouver we Remarks:	ather station, 0.00 inches of	rainfall was received	on the day of the	site visit and 0.09 inches	s within the two w	eeks prior.
Plot located upslope of Wetland B.						
VEGETATION						
	Absolute	Dominant	Indicator	Dominance Test wor		
<u>Tree Stratum (Plot Size: 30' r or</u> 1.	<u>% Cover</u>	Species?	<u>Status</u>	Number of Dominant		
2.				That Are OBL, FACW	, or FAC:	(A)
3.	<u> </u>					
4.				Total Number of Domi		0 (D)
T		T 1 10		Species Across All Str	-ata:	(B)
Sapling/Shrub Stratum (Plot Size: 10		= Total Cover		Percent of Dominant S	Procina	
1.	<u>, 101 j</u>				•	100% (A/B)
2.				That Are OBL, FACW Prevalence Index wo	, 01 1710.	100% (A/B)
3.				Total % Cover of		
4.				OBL species 0		0
5.				FACW species 0		0
		= Total Cover			0 x 3 =	300
Herb Stratum (Plot Size: 5' r or)	10101 00101		FACU species 0	-	0
Alopecurus pratensis	60%	Yes	FAC	UPL species 0	x 5 =	0
Schedonorus arundinaceus	40%	Yes	FAC	Column Totals: 10		300 (B)
3.				Prevalence Index	= B/A =	3.00
4.				Hydrophytic Vegetat	ion Indicators:	
5.				1 - Rapid Test for	Hydrophytic Vege	etation
6.				X 2 - Dominance Te	st is >50%	
7.				X 3 - Prevalence Inc	lex is ≤3.0 ¹	
8.				4 - Morphological	Adaptations ¹ (Pro	ovide supporting
9.				data in Remarl	s or on a separat	te sheet)
10.				5 - Wetland Non-\	/ascular Plants ¹	
11				Problematic Hydro	ophytic Vegetation	n (Explain) ¹
<u>Woody Vine Stratum (Plot Size: 10' r</u> 1.	or)	= Total Cover		¹ Indicators of hydric so be present.	oil and wetland hy	drology must
2. % Bare Ground in Herb Stratum	0%	= Total Cover		Hydrophytic Vegetation Present?	Yes X No	
Remarks:						

SOIL							Sampling Point:	19
Profile Descrip	otion (Describe to the	e depth need	ded to document	the indicator or co	onfirm the abs	ence of indicators):	
Depth	Matrix			Redox Fe	atures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10YR 3/2	100					SiCL	
	. <u> </u>							
	· -							
	·							-
1 -	to the Deposition	DM-Dodu	1 M 14 min 00=00	- Crotod Co	-1 One-in-o			
	entration, D=Depletior Pore Lining, M=Matrix.		Sed Matrix Co=Cov	/ered or Coaled Sa	ind Grains.			
	icators (Applicable to		unless otherwise	noted):		Indicators for I	Problematic Hydric S	 oils³:
Histosol (A1			Sandy Redox (•		2 cm Muck	•	Sile .
Histic Epipe	·	_	Stripped Matrix	• •			: Material (TF2)	
Black Histic	, ,	_		Mineral (F1) (excep	nt MLRA 1)		ow Dark Surface (TF12)	١
Hydrogen S	, ,	_	Loamy Gleyed	, , , .	7. IV. 2. 3 ,		ain in Remarks)	,
	elow Dark Surface (A1		Depleted Matri				,	
	Surface (A12)	<i>'</i>	Redox Dark Su	. ,		·		
_	ky Mineral (S1)	_	 Depleted Dark	` '			ydrophytic vegetation a be present, unless dis	
Sandy Gley	ved Matrix (S4)	-	Redox Depres	sions (F8)		problematic.	be prosont, amood a.c.	urbed of
Restrictive Laye	er (if present):							
Тур						Hydric Soil		
Depth (inches)						Present?	Yes	No X
Remarks:								
HYDROLOG								
	logy Indicators: ors (minimum of one re	cauired: chec	all that annly)			Secondary India	cators (2 or more requi	rad)
		tquireu, oneo			+ N AI D A		-	 -
Surface Water	, ,	-	water-Stained 1, 2, 4A, and	l Leaves (B9) (exce d 4B)	pt iviLRA	Water-Stain 4A, and 4	ned Leaves (B9) (MLRA 4R)	₹ 1, ∠,
Saturation (/			Salt Crust (B1				atterns (B10)	
Water Marks	` ,	-	Aquatic Inverte	,			n Water Table (C2)	
	Deposits (B2)	_	Hydrogen Sulfi	,			Visible on Aerial Image	rv (C9)
Drift Deposit	. , ,	_		ospheres along Livi	ing Roots (C3)		c Position (D2)	19 (33)
Algal Mat or	, ,	_		Reduced Iron (C4)	.,	Shallow Aqu	, ,	
Iron Deposit	` ,	_		eduction in Tilled So	oils (C6)	FAC-Neutra		
	il Cracks (B6)	_		essed Plants (D1) (I	, ,		Mounds (D6) (LRR A)	
	Visible on Aerial Image	ery (B7)	Other (Explain	` , `	•		e Hummocks (D7)	
Sparsely Ve	egetated Concave Sur	rface (B8)	_			<u></u>		
Field Observation	ions:							
Surface Water F	Present? Yes_	1	NoX	Depth (inches):	:	Wetland		
Water Table Pre			No X	Depth (inches):		Hydrology	Yes	No X
Saturation Prese				Depth (inches):		Present?	<u>—</u>	<u> </u>
(includes capilla	ary fringe)		· 					
Describe Reco	orded Data (stream g	suge monit	oring well aerial	nhotos previous	inenactions) i	if available:		
Describe Reco	rded Data (Stream 9	auge, mome	Oring Well, aeriai	pnotos, previous i	inspections), i	if available:		
Remarks:								
Soils dry through	hout.							



Appendix C: Site Photographs



Photo A. View north of wetland Plot 1 towards Plots 2-5 and Wetland A boundary.



Photo C. View north of Wetland A, in vicinity of Plot 6.



Photo B. View northeast of Wetland A boundary with Plots 9 and 10.



Photo D. View south of Wetland A at a lower topography location within the study area boundary.



Photo E. View south of upland Plot 11.



Photo F. View south west of Wetland B with Plots 15 and 16.



Photo G. View east of Wetland B boundary and Plot 19.



Photo H. View north of priority Oregon white oaks .



Appendix D: Wetland Rating Forms and Figures

RATING SUMMARY – Western Washington

Name of wetland (or ID #):	Wetland A	Date of site visit:	4/15/2021
Rated by Stacey Reed, PW	S Trained by Ecology? ☑ Yes ☐I	No Date of training	2014 & 2019
HGM Class used for rating	g Slope Wetland has mu	ultiple HGM classes? 🏻	Yes ☑No
	ot complete with out the figures requested (figures complete with out the figures requested (figures complete with out the figures requested (figures complete).	an be combined).	
OVERALL WETLAND C	ATEGORY IV (based on functions ⊡or spe	ecial characteristics (1)	'
OVERALL WEILARD O	(Sassa en lancione Eer ep.		
1. Category of wetland	I based on FUNCTIONS		
•	Category I - Total score = 23 - 27	Score for each	
	Category II - Total score = 20 - 22	function based	
	Category III - Total score = 16 - 19	on three	
X	Category IV - Total score = 9 - 15	ratings	

FUNCTION	Improving Water Quality	Hydrologic	Habitat	
	List appropria	ite rating (H, N	Л, L)	
Site Potential	L	L	L	
Landscape Potential	М	L	Н	
Value	Н	М	L	Total
Score Based on Ratings	6	4	5	15

Score for each function based on three ratings (order of ratings is not important)

9 = H, H, H
8 = H, H, M
7 = H, H, L
7 = H, M, M
6 = H, M, L
6 = M, M, M
5 = H, L, L
5 = M, M, L
4 = M, L, L
3 = L, L, L

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	Category
Estuarine	
Wetland of High Conservation Value	
Bog	
Mature Forest	
Old Growth Forest	
Coastal Lagoon	
Interdunal	
None of the above	Х

Maps and Figures required to answer questions correctly for Western Washington

Depressional Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	
Hydroperiods	D 1.4, H 1.2	
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	D 2.2, D 5.2	
Map of the contributing basin	D 4.3, D 5.3	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	

Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream (can be added to another figure)	R 4.1	
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	1
Hydroperiods	H 1.2	2
Plant cover of dense trees, shrubs, and herbaceous plants	S 1.3	N/A
Plant cover of dense , rigid trees, shrubs, and herbaceous plants	S 4.1	N/A
(can be added to another figure)		IN/A
Boundary of area within 150 ft of the wetland (can be added to another figure)	S 2.1, S 5.1	1
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	3
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	4
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	S 3.3	5

HGM Classification of Wetland in Western Washington

For questions 1 -7, the criteria described must apply to the entire unit being rated. If hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1 - 7 apply, and go to Question 8.

1. Are the water levels in the entire	Are the water levels in the entire unit usually controlled by tides except during floods?				
☑ NO - go to 2	☐ YES - the wetland class is Tidal Fringe - go to 1.1				
1.1 Is the salinity of the wate	r during periods of annual low flow below 0.5 ppt (parts per thousand)?				
	assified as a Freshwater Tidal Fringe use the forms for Riverine wetlands. nge it is an Estuarine wetland and is not scored. This method cannot be				
	d precipitation is the only source (>90%) of water to it. noff are NOT sources of water to the unit.				
☑ NO - go to 3 If your wetland can be cl	☐ YES - The wetland class is Flats assified as a Flats wetland, use the form for Depressional wetlands.				
plants on the surface at a	et all of the following criteria? e wetland is on the shores of a body of permanent open water (without any any time of the year) at least 20 ac (8 ha) in size; water area is deeper than 6.6 ft (2 m).				
☑ NO - go to 4	☐ YES - The wetland class is Lake Fringe (Lacustrine Fringe)				
The water flows through may flow subsurface, as	et all of the following criteria? e (slope can be very gradual), the wetland in one direction (unidirectional) and usually comes from seeps. I sheetflow, or in a swale without distinct banks. tland without being impounded.				
□ NO - go to 5	☑ YES - The wetland class is Slope				
	nd in these type of wetlands except occasionally in very small and shallow (depressions are usually <3 ft diameter and less than 1 ft deep).				
from that stream or river	stream channel, where it gets inundated by overbank flooding				
□ NO - go to 6	☐ YES - The wetland class is Riverine				
NOTE: The Riverine unit can conta	ain depressions that are filled with water when the river is not flooding.				

, , ,	hat any outlet, if present, is higher than the interior of the wetland.
□ NO - go to 7	☐ YES - The wetland class is Depressional
The unit does not pond surface water mor	ery flat area with no obvious depression and no overbank flooding? re than a few inches. The unit seems to be maintained by high y be ditched, but has no obvious natural outlet.
□ NO - go to 8	\square YES - The wetland class is Depressional
8. Your wetland unit seems to be difficult t	to classify and probably contains several different HGM classes. For

8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

HGM classes within the wetland unit	HGM class to	
being rated	use in rating	
Slope + Riverine	Riverine	
Slope + Depressional	Depressional	
Slope + Lake Fringe	Lake Fringe	
Depressional + Riverine along stream	Depressional	
within boundary of depression		
Depressional + Lake Fringe	Depressional	
Riverine + Lake Fringe	Riverine	
Salt Water Tidal Fringe and any other	Treat as	
class of freshwater wetland	ESTUARINE	

If you are still unable to determine which of the above criteria apply to your wetland, or if you have **more than 2 HGM classes** within a wetland boundary, classify the wetland as Depressional for the rating.

SLOPE WETLANDS

Yes = 2 No = 0

3

Record rating on the first page

Add the points in the boxes above

Water Quality Functions - Indicators that the site functions to imp	prove water quality	
S 1.0. Does the site have the potential to improve water quality?		
S 1.1. Characteristics of the average slope of the wetland: (a 1% slope has a 1 t	t vertical drop in	
elevation for every 100 ft of horizontal distance)	-	
Slope is 1% or less	points = 3	1
Slope is > 1% - 2%	points = 2	
Slope is > 2% - 5%	points = 1	
Slope is greater than 5%	points = 0	
S 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic	-	0
(use NRCS definitions):	Yes = 3 No = 0	U
S 1.3. Characteristics of the plants in the wetland that trap sediments and polluta	ants:	
Choose the points appropriate for the description that best fits the plants in the v		
means you have trouble seeing the soil surface (>75% cover), and uncut means	not grazed or	
mowed and plants are higher than 6 in.		
Dense, uncut, herbaceous plants > 90% of the wetland area	points = 6	0
Dense, uncut, herbaceous plants > ½ of area	points = 3	
Dense, woody, plants > ½ of area	points = 2	
Dense, uncut, herbaceous plants > 1/4 of area	points = 1	
Does not meet any of the criteria above for plants	points = 0	
	n the boxes above	1
Rating of Site Potential If score is: ☐12 = H ☐ - 11 = M ☐ - 5 = L	Record rating on	the first page
S 2.0. Does the landscape have the potential to support the water quality function	n of the site?	
S 2.1. Is > 10% of the area within 150 ft on the uphill side of the wetland in		
		1
land uses that generate pollutants?	Yes = 1 No = 0	1
land uses that generate pollutants?	Yes = 1 No = 0	1
	Yes = 1 No = 0	1
Other Sources- G	Yes = 1 No = 0 Yes = 1 No = 0	
Other Sources- G Total for S 2 Add the points i		
Other Sources- G	Yes = 1 No = 0	1 2
Other Sources- G Total for S 2 Add the points i	Yes = 1 No = 0 n the boxes above	1 2
Other Sources- G Total for S 2 Add the points i	Yes = 1 No = 0 n the boxes above	1 2
Other Sources- G Total for S 2 Rating of Landscape Potential If score is: □1 - 2 = M □ = L	Yes = 1 No = 0 n the boxes above	1 2 the first page
Other Sources- G Total for S 2 Add the points is Rating of Landscape Potential If score is: I - 2 = M = L S 3.0. Is the water quality improvement provided by the site valuable to society?	Yes = 1 No = 0 n the boxes above	1
Other Sources- G Total for S 2 Add the points is Rating of Landscape Potential If score is: I - 2 = M	Yes = 1 No = 0 n the boxes above Record rating on	1 2 the first page
Other Sources- G Total for S 2 Rating of Landscape Potential If score is: In - 2 = M In - 2 = M S 3.0. Is the water quality improvement provided by the site valuable to society? S 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river, lake, or marine water that is on the 303(d) list?	Yes = 1 No = 0 n the boxes above Record rating on	1 2 the first page
Other Sources- G Total for S 2 Add the points is Rating of Landscape Potential If score is: I - 2 = M	Yes = 1 No = 0 In the boxes above Record rating on Yes = 1 No = 0	1 2 the first page

SLOPE WETLANDS

Hydrologic Functions - Indicators that the site functions to reduce flooding and stream erosion

Rating of Value If score is: $\square 2 - 4 = H$ $\square 1 = M$

which the unit is found?

Total for S 3

NE 28th Street, Camas (AKS Job #8468)

S 4.0. Does the site have the potential to reduce flooding and stream erosion?		
S 4.1. Characteristics of plants that reduce the velocity of surface flows during s		
points appropriate for the description that best fits conditions in the wetland. Ste		
should be thick enough (usually $> 1/8$ in), or dense enough, to remain erect dual	ring surface flows.	0
Dense, uncut, rigid plants cover > 90% of the area of the wetland	points = 1	
All other conditions	points = 0	
Rating of Site Potential If score is: 1 = M 2 = L	Record rating on	the first page
S 5.0. Does the landscape have the potential to support hydrologic functions of	the site?	
S 5.1. Is more than 25% of the area within 150 ft upslope of wetland in land		0
uses or cover that generate excess surface runoff?	Yes = 1 No = 0	U
Rating of Landscape Potential If score is:	Record rating on	the first page
S 6.0. Are the hydrologic functions provided by the site valuable to society?		
S 6.1. Distance to the nearest areas downstream that have flooding problems:		
The sub-basin immediately down-gradient of site has flooding		
problems that result in damage to human or natural resources (e.g.,		1
houses or salmon redds)	points = 2	'
Surface flooding problems are in a sub-basin farther down-gradient	points = 1	
No flooding problems anywhere downstream	points = 0	
S 6.2. Has the site been identified as important for flood storage or flood		0
conveyance in a regional flood control plan?	Yes = 2 No = 0	U
Total for S 6 Add the points	in the boxes above	1
Rating of Value If score is: \(\pi 2 - 4 = H \) \(\pi 1 = M \) \(\pi n = I \)	Record rating on	the first nage

NOTES and FIELD OBSERVATIONS:

These questions apply to wetlands of all HGM classes.				
HABITAT FUNCTIONS - Indicators that site functions to provide important habitat				
H 1.0. Does the site have the potential to provide habitat?				
H 1.1. Structure of plant community: Indicators are Cowardin classes and strata within the Forested class. Check the Cowardin plant classes in the wetland. Up to 10 patches may be combined for each class to meet the threshold of ¼ ac or more than 10% of the unit if it is smaller than 2.5 ac. Add the number of structures checked.				
 □ Aquatic bed □ Emergent □ Scrub-shrub (areas where shrubs have > 30% cover) □ Forested (areas where trees have > 30% cover) □ If the unit has a Forested class, check if: □ The Forested class has 3 out of 5 strata (canopy, sub-canopy, shrubs, herbaceous, moss/ground-cover) that each cover 20% within the Forested polygon 	0			
H 1.2. Hydroperiods Check the types of water regimes (hydroperiods) present within the wetland. The water regime has to cover more than 10% of the wetland or ¼ ac to count (see text for descriptions of hydroperiods).				
□ Permanently flooded or inundated 4 or more types present: points = 3 □ Seasonally flooded or inundated 3 types present: points = 2 □ Occasionally flooded or inundated 2 types present: points = 1 □ Saturated only 1 types present: points = 0 □ Permanently flowing stream or river in, or adjacent to, the wetland □ Seasonally flowing stream in, or adjacent to, the wetland □ Lake Fringe wetland 2 points	1			
☐ Freshwater tidal wetland 2 points				
H 1.3. Richness of plant species Count the number of plant species in the wetland that cover at least 10 ft². Different patches of the same species can be combined to meet the size threshold and you do not have to name the species. Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canadian thistle If you counted: > 19 species points = 2 5 - 19 species points = 1 < 5 species points = 0	0			
H 1.4. Interspersion of habitats Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high. None = 0 points Low = 1 point Moderate = 2 points All three diagrams in this row are HIGH = 3 points	0			

NE 28th Street, Camas (AKS Job #8468)

H 1.5. Special habitat features:	
Check the habitat features that are present in the wetland. <i>The number of checks is the number of</i>	
points	
☐ Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long)	
☐ Standing snags (dbh > 4 in) within the wetland	
☐ Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends	
at least 3.3 ft (1 m) over a stream (or ditch) in, or contiguous with the wetland, for at	
least 33 ft (10 m)	0
☐ Stable steep banks of fine material that might be used by beaver or muskrat for denning	
(> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees	
that have not yet weathered where wood is exposed)	
\square At least $\frac{1}{4}$ ac of thin-stemmed persistent plants or woody branches are present in areas	
that are permanently or seasonally inundated (structures for egg-laying by amphibians)	
☐ Invasive plants cover less than 25% of the wetland area in every stratum of plants (see	
H 1.1 for list of strata)	
Total for H 1 Add the points in the boxes above	1
Rating of Site Potential If Score is: 15 - 18 = H 7 - 14 = M - 6 = L Record rating on the	e first page
H 2.0. Does the landscape have the potential to support the habitat function of the site?	
H 2.1 Accessible habitat (include only habitat that directly abuts wetland unit).	
Calculate:	
0 % undisturbed habitat + (54 % moderate & low intensity land uses / 2) = 27%	
· · · · · · · · · · · · · · · · · · ·	
If total accessible habitat is:	1
$> \frac{1}{3}$ (33.3%) of 1 km Polygon points = 3	
20 - 33% of 1 km Polygon points = 2	
10 - 19% of 1 km Polygon points = 1	
< 10 % of 1 km Polygon points = 0	
H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.	
Calculate:	
32 % undisturbed habitat + (54 % moderate & low intensity land uses / 2) = 59%	
Undisturbed habitat > 50% of Polygon points = 3	3
Undisturbed habitat 10 - 50% and in 1-3 patches points = 2	-
Undisturbed habitat 10 - 50% and > 3 patches points = 1	
·	
70	
H 2.3 Land use intensity in 1 km Polygon: If > 50% of 1 km Polygon is high intensity land use points = (-2)	0
	0
≤ 50% of 1km Polygon is high intensity points = 0	4
Total for H 2 Add the points in the boxes above	4
Rating of Landscape Potential If Score is:	ne first page
H 3.0. Is the habitat provided by the site valuable to society?	
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose	
only the highest score that applies to the wetland being rated.	
Site meets ANY of the following criteria: points = 2	
☐ It has 3 or more priority habitats within 100 m (see next page)	
☐ It provides habitat for Threatened or Endangered species (any plant	
or animal on the state or federal lists)	
☐ It is mapped as a location for an individual WDFW priority species	0
☐ It is a Wetland of High Conservation Value as determined by the	U
Department of Natural Resources	
☐ It has been categorized as an important habitat site in a local or	
regional comprehensive plan, in a Shoreline Master Plan, or in a	
watershed plan	
Site has 1 or 2 priority habitats (listed on next page) with in 100m points = 1	
Site does not meet any of the criteria above points = 0	
Rating of Value If Score is:	e first page

Wetland ID: Wetland A

WDFW Priority Habitats

<u>Priority habitats listed by WDFW</u> (see complete descriptions of WDFW priority habitats, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008. Priority Habitat and Species List. Olympia, Washington. 177 pp.

http://wdfw.wa.gov/publications/00165/wdfw00165.pdf_or access the list from here: http://wdfw.wa.gov/conservation/phs/list/

Count how many of the following priority habitats are within 330 ft (100 m) of the wetland unit: **NOTE**: This question is independent of the land use between the wetland unit and the priority habitat.

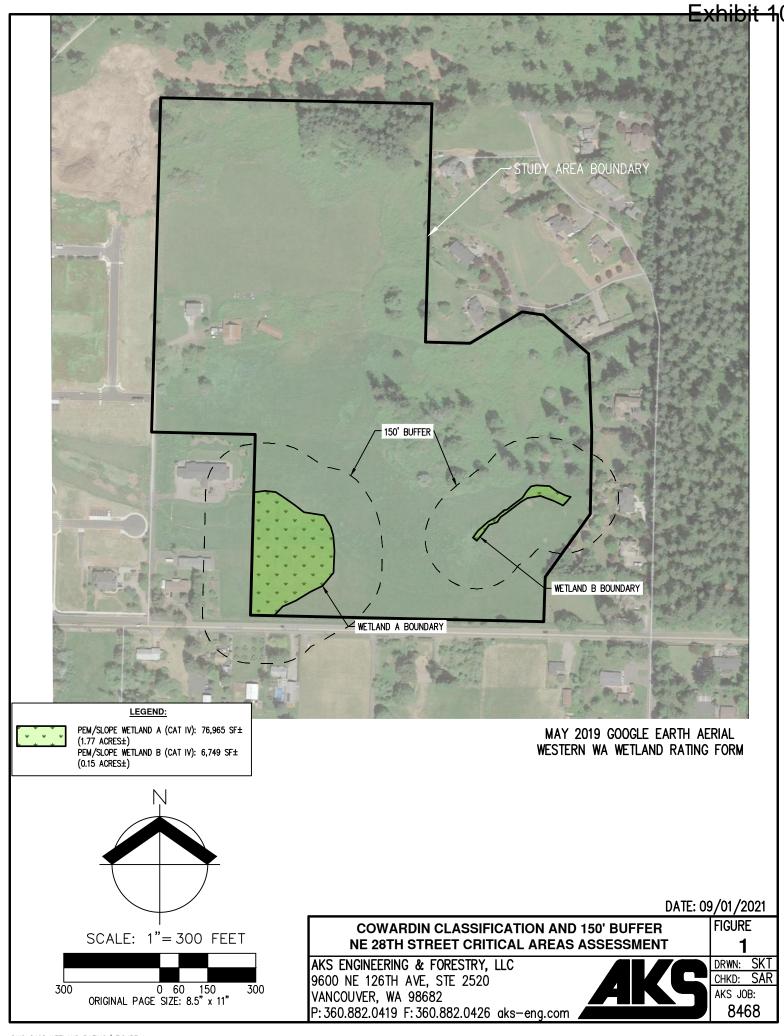
Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
Biodiversity Areas and Corridors : Areas of habitat that are relatively important to various species of native fish and wildlife (<i>full descriptions in WDFW PHS report</i>).
Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
Old-growth/Mature forests : Old-growth west of Cascade crest – Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in (81 cm) dbh or > 200 years of age. Mature forests – Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.
Oregon White Oak : Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important (<i>full descriptions in WDFW PHS report p. 158 – see web link above</i>).
Riparian : The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
Westside Prairies : Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie (<i>full descriptions in WDFW PHS report p. 161 – see web link above</i>).
Instream : The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources.
Nearshore : Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore. (<i>full descriptions of habitats and the definition of relatively undisturbed are in WDFW report – see web link on previous page</i>).
Caves : A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
Talus : Homogenous areas of rock rubble ranging in average size 0.5 - 6.5 ft (0.15 - 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
Snags and Logs : Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 20 in (51 cm) in western Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.

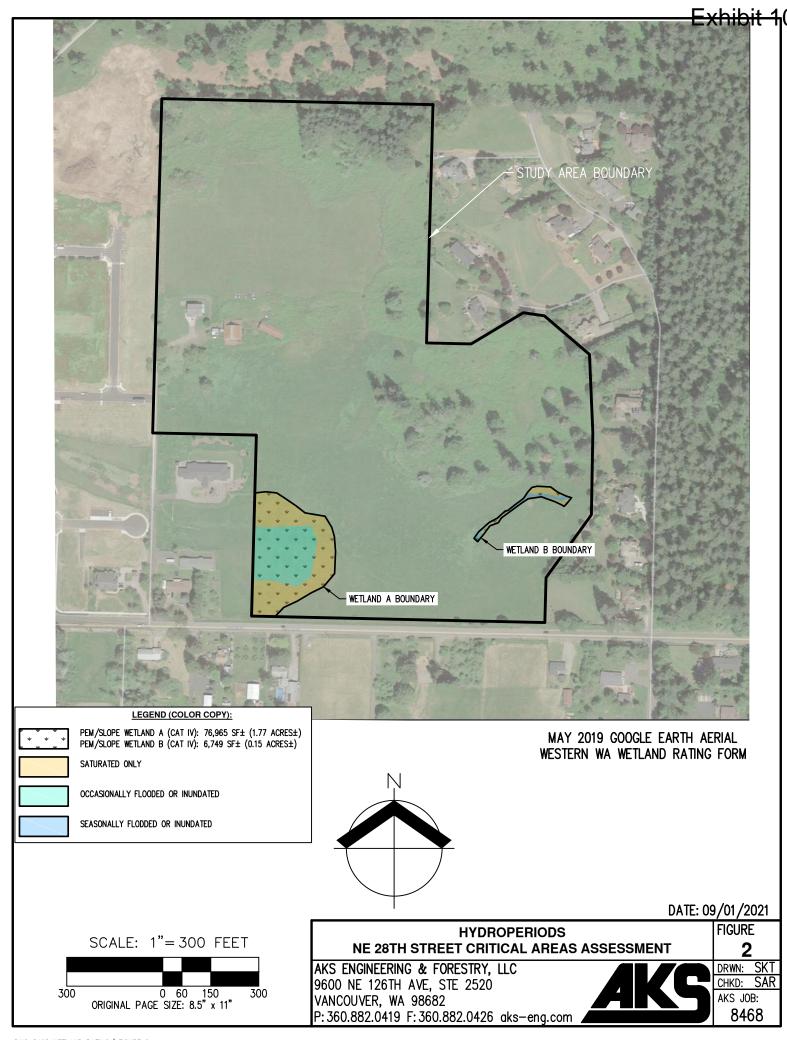
Note: All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed elsewhere.

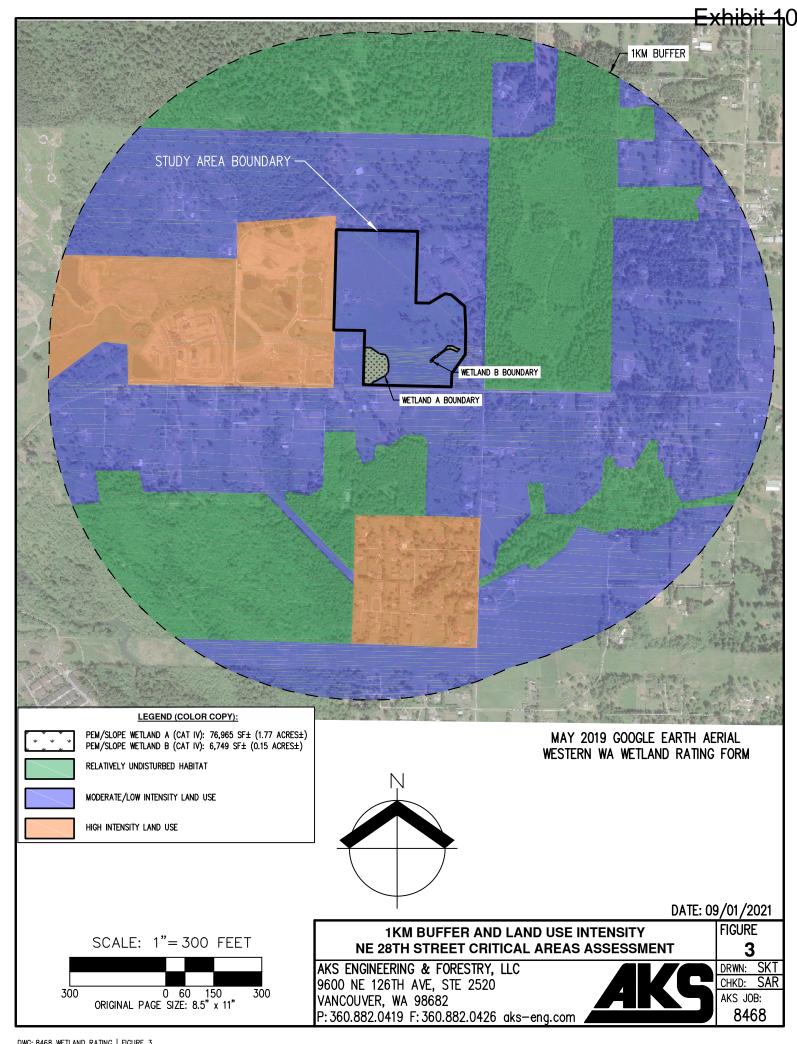
CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

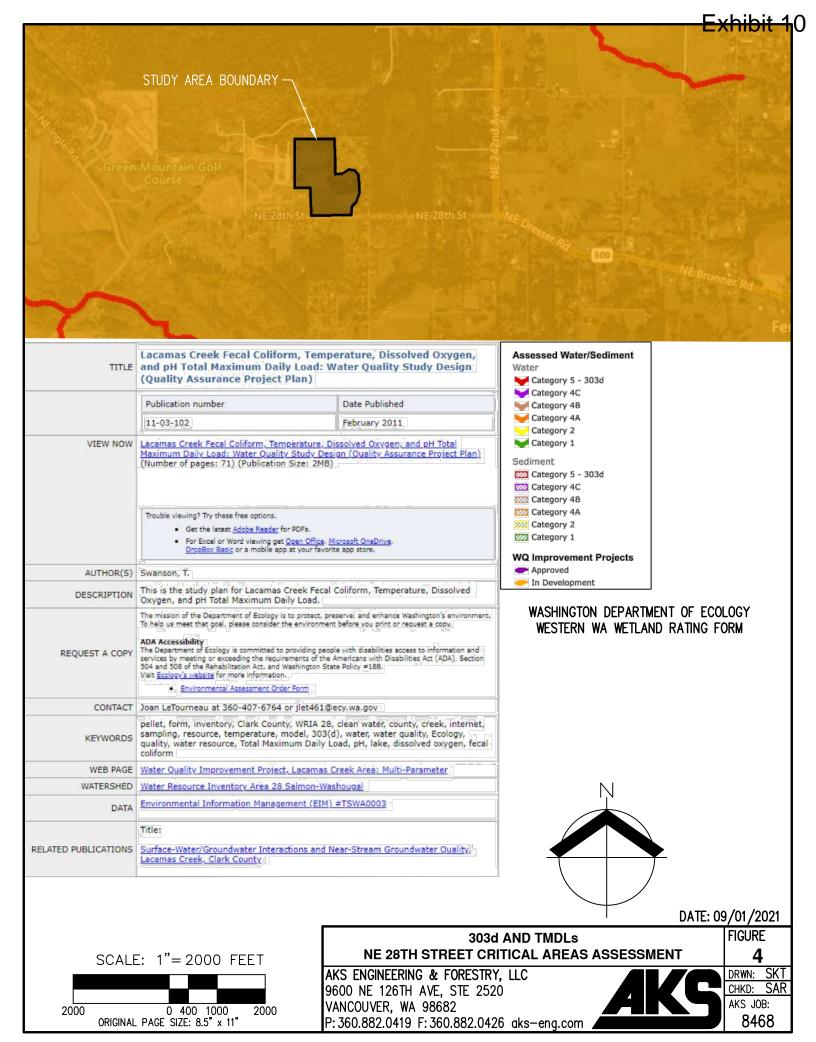
Wetland ¹		Category
	any criteria that apply to the wetland. List the category when the appropriate criteria are met.	
SC 1.0. E	stuarine Wetlands	
	Does the wetland meet the following criteria for Estuarine wetlands?	
	The dominant water regime is tidal,	
	Vegetated, and	
	With a salinity greater than 0.5 ppt	
	☐ Yes - Go to SC 1.1 ☑ No = Not an estuarine wetland	
SC 1.1.	Is the wetland within a National Wildlife Refuge, National Park, National Estuary Reserve,	
	Natural Area Preserve, State Park or Educational, Environmental, or Scientific Reserve	
	designated under WAC 332-30-151? ☐ Yes = Category I ☐ No - Go to SC 1.2	
SC 1.2.	Is the wetland unit at least 1 ac in size and meets at least two of the following three conditions?	
SC 1.2.	The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing, and has	
	less than 10% cover of non-native plant species. (If non-native species are <i>Spartina</i> , see page	
	25)	
	At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed	
	or un-mowed grassland.	
	The wetland has at least two of the following features: tidal channels, depressions with open	
	water, or contiguous freshwater wetlands.	
	☐ Yes = Category I ☐ No = Category II	
SC 2.0. W	Vetlands of High Conservation Value (WHCV)	
SC 2.1.	Has the WA Department of Natural Resources updated their website to include the list of	
	Wetlands of High Conservation Value?	
	☐ Yes - Go to SC 2.2	
SC 2.2.	Is the wetland listed on the WDNR database as a Wetland of High Conservation Value?	
	☐ Yes = Category I ☐ No = Not WHCV	
SC 2.3.	Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	
	http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf	
	☐ Yes - Contact WNHP/WDNR and to SC 2.4 ☐ No = Not WHCV	
SC 2.4.	Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation Value and	
	listed it on their website?	
	☐ Yes = Category I ☐ No = Not WHCV	
SC 3.0. B	ogs	
	Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation in bogs?	
	Use the key below. If you answer YES you will still need to rate the wetland based on its	
	functions.	
SC 3.1.	Does an area within the wetland unit have organic soil horizons, either peats or mucks, that	
	compose 16 in or more of the first 32 in of the soil profile?	
	☐ Yes - Go to SC 3.3	
SC 3.2.	Does an area within the wetland unit have organic soils, either peats or mucks, that are less than	
	16 in deep over bedrock, or an impermeable hardpan such as clay or volcanic ash, or that are	
	floating on top of a lake or pond?	
	☐ Yes - Go to SC 3.3 ☑ No = Is not a bog	
SC 3.3.	Does an area with peats or mucks have more than 70% cover of mosses at ground level, AND at	
	least a 30% cover of plant species listed in Table 4?	
	☐ Yes = Is a Category I bog ☐ No - Go to SC 3.4	
	NOTE: If you are uncertain about the extent of masses in the understand you may sub-456.45-46-46-46	
	NOTE : If you are uncertain about the extent of mosses in the understory, you may substitute that	
	criterion by measuring the pH of the water that seeps into a hole dug at least 16 in deep. If the pH is less than 5.0 and the plant species in Table 4 are present, the wetland is a bog.	
SC 3.4.	· · · · · · · · · · · · · · · · · · ·	
30 3.4.	Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir, western red cedar, western hemlock, lodgepole pine, quaking aspen, Engelmann spruce, or western	
	white pine, AND any of the species (or combination of species) listed in Table 4 provide more	
	than 30% of the cover under the canopy?	
	☐ Yes = Is a Category I bog ☐ No = Is not a bog	
		I

SC 4.0. F	orested Wetlands	
	Does the wetland have at least <u>1 contiguous acre</u> of forest that meets one of these criteria for the WA Department of Fish and Wildlife's forests as priority habitats? <i>If you answer YES you will still need to rate the wetland based on its functions.</i>	
	Old-growth forests (west of Cascade crest): Stands of at least two tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) that are at least 200 years of age OR have a diameter at breast height (dbh) of 32 in (81 cm) or more.	
	Mature forests (west of the Cascade Crest): Stands where the largest trees are 80- 200 years old OR the species that make up the canopy have an average diameter (dbh) exceeding 21 in (53 cm).	
	☐ Yes = Category I ☑ No = Not a forested wetland for this section	
SC 5.0. V	Vetlands in Coastal Lagoons Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?	
	The wetland lies in a depression adjacent to marine waters that is wholly or partially separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently, rocks	
	The lagoon in which the wetland is located contains ponded water that is saline or brackish (> 0.5 ppt) during most of the year in at least a portion of the lagoon (<i>needs to be measured near the bottom</i>)	
_	Yes - Go to SC 5.1 No = Not a wetland in a coastal lagoon loes the wetland meet all of the following three conditions?	
	The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less than 20% cover of aggressive, opportunistic plant species (see list of species on p. 100).	
	At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-mowed grassland.	
	The wetland is larger than $^{1}/_{10}$ ac (4350 ft ²) \square Yes = Category I \square No = Category II	
SC 6.0. Ir	nterdunal Wetlands	
	Is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? <i>If you answer yes you will still need to rate the wetland based on its habitat functions.</i>	
	In practical terms that means the following geographic areas: Long Beach Peninsula: Lands west of SR 103	
	Grayland-Westport: Lands west of SR 105 Ocean Shores-Copalis: Lands west of SR 115 and SR 109 ☐ Yes - Go to SC 6.1 ☑ No = Not an interdunal wetland for rating	
SC 6.1.	Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,M for the three aspects of function)?	
SC 6.2.	Yes = Category I	
SC 6.3.	Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and 1 ac?	
	☐ Yes = Category III ☐ No = Category IV	
	of wetland based on Special Characteristics	N/A
If you ans	wered No for all types, enter "Not Applicable" on Summary Form	









RATING SUMMARY – Western Washington

Name of wetland (or ID #):	Vetland B	Date of site visit: 4/15	5/2021
Rated by Stacey Reed, PWS	Trained by Ecology? ☑ Y	es ☐No Date of training 2014	& 2019
HGM Class used for rating	Slope Wetland I	nas multiple HGM classes? ☐ Yes[☑No
	complete with out the figures requested (fig base aerial photo/map ESRI/ArcGIS Online	ures can be combined).	
004100 0	Zertin receive erinine	_	
OVERALL WETLAND CA	EGORY IV (based on functions	or special characteristics)	
1. Category of wetland b	ased on FUNCTIONS		
	category I - Total score = 23 - 27	Score for each	
	category II - Total score = 20 - 22	function based	
	Category III - Total score = 16 - 19	on three	
	Category IV - Total score = 9 - 15	ratings	

FUNCTION	Improving Water Quality	Hydrologic	Habitat	
	List appropria	nte rating (H, I	Л, L)	
Site Potential	L	L	L	
Landscape Potential	М	L	Н	
Value	Н	М	L	Total
Score Based on Ratings	6	4	5	15

Score for each function based on three ratings (order of ratings is not important)

9 = H, H, H
8 = H, H, M
7 = H, H, L
7 = H, M, M
6 = H, M, L
6 = M, M, M
5 = H, L, L
5 = M, M, L
4 = M, L, L
3 = L, L, L

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	Category
Estuarine	
Wetland of High Conservation Value	
Bog	
Mature Forest	
Old Growth Forest	
Coastal Lagoon	
Interdunal	
None of the above	х

Maps and Figures required to answer questions correctly for Western Washington

Depressional Wetlands

To answer questions:	Figure #
D 1.3, H 1.1, H 1.4	
D 1.4, H 1.2	
D 1.1, D 4.1	
D 2.2, D 5.2	
D 4.3, D 5.3	
H 2.1, H 2.2, H 2.3	
D 3.1, D 3.2	
D 3.3	
	D 1.3, H 1.1, H 1.4 D 1.4, H 1.2 D 1.1, D 4.1 D 2.2, D 5.2 D 4.3, D 5.3 H 2.1, H 2.2, H 2.3 D 3.1, D 3.2

Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream (can be added to another figure)	R 4.1	
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L 2.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	
polygons for accessible habitat and undisturbed habitat		
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L 3.1, L 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L 3.3	

Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	1
Hydroperiods	H 1.2	2
Plant cover of dense trees, shrubs, and herbaceous plants	S 1.3	N/A
Plant cover of dense, rigid trees, shrubs, and herbaceous plants	S 4.1	N/A
(can be added to another figure)		IN/A
Boundary of area within 150 ft of the wetland (can be added to another figure)	S 2.1, S 5.1	1
1 km Polygon: Area that extends 1 km from entire wetland edge - including	H 2.1, H 2.2, H 2.3	3
polygons for accessible habitat and undisturbed habitat		3
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	S 3.1, S 3.2	4
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	S 3.3	5

HGM Classification of Wetland in Western Washington

For questions 1 -7, the criteria described must apply to the entire unit being rated. If hydrologic criteria listed in each question do not apply to the entire unit being rated, you probably have a unit with multiple HGM classes. In this case, identify which hydrologic criteria in questions 1 - 7 apply, and go to Question 8.

1. Are the water lev	els in the entire unit usually cont	rolled by tides except during floods?
☑ NO - go to	2 Y	ES - the wetland class is Tidal Fringe - go to 1.1
1.1 Is the salir	nity of the water during periods of	f annual low flow below 0.5 ppt (parts per thousand)?
If your wet If it is Salt		hwater Tidal Fringe use the forms for Riverine wetlands. rine wetland and is not scored. This method cannot be
	d unit is flat and precipitation is t urface water runoff are NOT sou	he only source (>90%) of water to it. rces of water to the unit.
☑ NO - go to If your wet		☐ YES - The wetland class is Flats wetland, use the form for Depressional wetlands.
☐ The vegeta plants on t	etland unit meet all of the follow ated part of the wetland is on the he surface at any time of the yea % of the open water area is dee	e shores of a body of permanent open water (without any ar) at least 20 ac (8 ha) in size;
☑ NO - go to	4 Y	ES - The wetland class is Lake Fringe (Lacustrine Fringe)
☑ The wetlar ☑ The water may flow s	etland unit meet all of the follow nd is on a slope (<i>slope can be ve</i> flows through the wetland in one subsurface, as sheetflow, or in a leaves the wetland without bei	ery gradual), e direction (unidirectional) and usually comes from seeps. I swale without distinct banks.
□ NO - go to	5	☑ YES - The wetland class is Slope
		wetlands except occasionally in very small and shallow usually <3 ft diameter and less than 1 ft deep).
☐ The unit is from that s	etland unit meet all of the follow in a valley, or stream channel, v stream or river, ank flooding occurs at least once	vhere it gets inundated by overbank flooding
□ NO - go to	6	☐ YES - The wetland class is Riverine
NOTE: The Riverine	unit can contain depressions th	at are filled with water when the river is not flooding.

1 0 1	depression in which water ponds, or is saturated to the surface, at any outlet, if present, is higher than the interior of the wetland.
□ NO - go to 7	☐ YES - The wetland class is Depressional
•	flat area with no obvious depression and no overbank flooding? han a few inches. The unit seems to be maintained by high e ditched, but has no obvious natural outlet.
□ NO - go to 8	☐ YES - The wetland class is Depressional
8. Your wetland unit seems to be difficult to c	classify and probably contains several different HGM classes. For

8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

NOTE: Use this table only if the class that is recommended in the second column represents 10% or more of the total area of the wetland unit being rated. If the area of the HGM class listed in column 2 is less than 10% of the unit; classify the wetland using the class that represents more than 90% of the total area.

HGM classes within the wetland unit	HGM class to
being rated	use in rating
Slope + Riverine	Riverine
Slope + Depressional	Depressional
Slope + Lake Fringe	Lake Fringe
Depressional + Riverine along stream	Depressional
within boundary of depression	
Depressional + Lake Fringe	Depressional
Riverine + Lake Fringe	Riverine
Salt Water Tidal Fringe and any other	Treat as
class of freshwater wetland	ESTUARINE

If you are still unable to determine which of the above criteria apply to your wetland, or if you have **more than 2 HGM classes** within a wetland boundary, classify the wetland as Depressional for the rating.

SLOPE WETLANDS

 $Yes = 2 \quad No = 0$

Record rating on the first page

Add the points in the boxes above

	TVE Zotil Street, Callias	(, 300 100
Water Quality Functions - Indicators that the site functions to im	prove water quality	
S 1.0. Does the site have the potential to improve water quality?		
S 1.1. Characteristics of the average slope of the wetland: (a 1% slope has a 1	ft vertical drop in	
elevation for every 100 ft of horizontal distance)	•	
Slope is 1% or less	points = 3	0
Slope is > 1% - 2%	points = 2	3
Slope is > 2% - 5%	points = 1	
Slope is greater than 5%	points = 0	
S 1.2. The soil 2 in below the surface (or duff layer) is true clay or true organic	•	0
(use NRCS definitions):	Yes = 3 No = 0	0
S 1.3. Characteristics of the plants in the wetland that trap sediments and pollut	ants:	
Choose the points appropriate for the description that best fits the plants in the	wetland. <i>Dense</i>	
means you have trouble seeing the soil surface (>75% cover), and uncut means	s not grazed or	
mowed and plants are higher than 6 in.		
Dense, uncut, herbaceous plants > 90% of the wetland area	points = 6	0
Dense, uncut, herbaceous plants > $\frac{1}{2}$ of area	points = 3	
Dense, woody, plants > ½ of area	points = 2	
Dense, uncut, herbaceous plants > ¼ of area	points = 1	
Does not meet any of the criteria above for plants	points = 0	
Total for S 1 Add the points	in the boxes above	3
Rating of Site Potential If score is: 12 = H 5 - 11 = M 5 - 5 = L	Record rating on	the first page
S 2.0. Does the landscape have the potential to support the water quality function	on of the site?	
S 2.1. Is > 10% of the area within 150 ft on the uphill side of the wetland in		4
land uses that generate pollutants?	Yes = 1 No = 0	1
		1
Other Sources- G	Yes = 1 No = 0	
Total for S 2 Add the points	in the boxes above	2
Rating of Landscape Potential If score is: 1 - 2 = M	Record rating on	the first page
S 3.0. Is the water quality improvement provided by the site valuable to society?		
S 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a stream, river,		0
lake, or marine water that is on the 303(d) list?	Yes = 1 No = 0	0
S 3.2. Is the wetland in a basin or sub-basin where water quality is an issue?		4
At least one aquatic resource in the basin is on the 303(d) list.	Yes = 1 No = 0	1
S 3.3. Has the site been identified in a watershed or local plan as important for		
maintaining water quality? Answer YES if there is a TMDL for the basin in		2
which the unit is found?	Yes = 2 No = 0	

SLOPE WETLANDS

Hydrologic Functions - Indicators that the site functions to reduce flooding and stream erosion

Rating of Value If score is: 2 - 4 = H 1 = M

Total for S 3

Record rating on the first page

Welland ID. Welland D	NE Zotii Street, Camas	(AK3 JUD #6406)
S 4.0. Does the site have the potential to reduce flooding and strear	n erosion?	
S 4.1. Characteristics of plants that reduce the velocity of surface flopoints appropriate for the description that best fits conditions in the	wetland. Stems of plants	
should be thick enough (usually $> 1/8$ in), or dense enough, to rem	ain erect during surface flows.	0
Dense, uncut, rigid plants cover > 90% of the area of the	wetland points = 1	
All other conditions	points = 0	
Rating of Site Potential If score is: 1 = M 20 = L	Record rating on	the first page
S 5.0. Does the landscape have the potential to support hydrologic	functions of the site?	
S 5.1. Is more than 25% of the area within 150 ft upslope of wetland	l in land	0
uses or cover that generate excess surface runoff?	Yes = 1 No = 0	U
Rating of Landscape Potential If score is:	Record rating on	the first page
S 6.0. Are the hydrologic functions provided by the site valuable to s	society?	
S 6.1. Distance to the nearest areas downstream that have flooding	problems:	
The sub-basin immediately down-gradient of site has floor	ding	
problems that result in damage to human or natural resou	rces (e.g.,	1
houses or salmon redds)	points = 2	'
Surface flooding problems are in a sub-basin farther dowr	n-gradient points = 1	
No flooding problems anywhere downstream	points = 0	
S 6.2. Has the site been identified as important for flood storage or	flood	0
conveyance in a regional flood control plan?	Yes = 2 No = 0	0
Total for S 6 Add	d the points in the boxes above	1

_0 = L

NOTES and FIELD OBSERVATIONS:

□2 - 4 = H

Rating of Value If score is:

These questions apply to wetlands of all HGM classes.	
HABITAT FUNCTIONS - Indicators that site functions to provide important habitat	
H 1.0. Does the site have the potential to provide habitat?	
H 1.1. Structure of plant community: Indicators are Cowardin classes and strata within the Forested class. Check the Cowardin plant classes in the wetland. Up to 10 patches may be combined for each class to meet the threshold of ¼ ac or more than 10% of the unit if it is smaller than 2.5 ac. Add the number of structures checked.	
 □ Aquatic bed □ Emergent □ Scrub-shrub (areas where shrubs have > 30% cover) □ Forested (areas where trees have > 30% cover) □ If the unit has a Forested class, check if: □ The Forested class has 3 out of 5 strata (canopy, sub-canopy, shrubs, herbaceous, moss/ground-cover) that each cover 20% within the Forested polygon 	0
H 1.2. Hydroperiods Check the types of water regimes (hydroperiods) present within the wetland. The water regime has to cover more than 10% of the wetland or ¼ ac to count (see text for descriptions of hydroperiods). □ Permanently flooded or inundated	1
H 1.3. Richness of plant species Count the number of plant species in the wetland that cover at least 10 ft². Different patches of the same species can be combined to meet the size threshold and you do not have to name the species. Do not include Eurasian milfoil, reed canarygrass, purple loosestrife, Canadian thistle If you counted: > 19 species	0
H 1.4. Interspersion of habitats Decide from the diagrams below whether interspersion among Cowardin plants classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, moderate, low, or none. If you have four or more plant classes or three classes and open water, the rating is always high. None = 0 points Low = 1 point Moderate = 2 points All three diagrams in this row are HIGH = 3 points	0

H 1.5. Special habitat features:	
Check the habitat features that are present in the wetland. The number of checks is the number of	f
points	
☐ Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft long)	
☐ Standing snags (dbh > 4 in) within the wetland	
☐ Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends	
at least 3.3 ft (1 m) over a stream (or ditch) in, or contiguous with the wetland, for at	
least 33 ft (10 m)	0
☐ Stable steep banks of fine material that might be used by beaver or muskrat for denning	
(> 30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees	
that have not yet weathered where wood is exposed)	
☐ At least ¼ ac of thin-stemmed persistent plants or woody branches are present in areas	
that are permanently or seasonally inundated (<i>structures for egg-laying by amphibians</i>)	
☐ Invasive plants cover less than 25% of the wetland area in every stratum of plants (see	
H 1.1 for list of strata)	
	4
Total for H 1 Add the points in the boxes abov Rating of Site Potential If Score is: 15 - 18 = H 7 - 14 = M 7 - 6 = L Record rating on	
Rating of Site Potential If Score is: 15 - 18 = H 7 - 14 = M - 6 = L Record rating on	the first page
H 2.0. Does the landscape have the potential to support the habitat function of the site?	
H 2.1 Accessible habitat (include only habitat that directly abuts wetland unit).	
Calculate:	
0 % undisturbed habitat + (54 % moderate & low intensity land uses / 2) = 27%	
If total accessible habitat is:	2
$> \frac{1}{3}$ (33.3%) of 1 km Polygon points =	
20 - 33% of 1 km Polygon points =	
10 - 19% of 1 km Polygon points =	
< 10 % of 1 km Polygon points =	J
H 2.2. Undisturbed habitat in 1 km Polygon around the wetland.	
Calculate:	
32 % undisturbed habitat + (54 % moderate & low intensity land uses / 2) = 59%	
Undisturbed habitat > 50% of Polygon points =	3
Undisturbed habitat 10 - 50% and in 1-3 patches points =	
Undisturbed habitat 10 - 50% and > 3 patches points =	
Undisturbed habitat < 10% of 1 km Polygon points =	
H 2.3 Land use intensity in 1 km Polygon: If	
> 50% of 1 km Polygon is high intensity land use points = (-2	\
	,
≤ 50% of 1km Polygon is high intensity points =	
Total for H 2 Add the points in the boxes abov	
Rating of Landscape Potential If Score is: 4-6=H 1-3=M 1=L Record rating on	the first page
H 3.0. Is the habitat provided by the site valuable to society?	
H 3.1. Does the site provide habitat for species valued in laws, regulations, or policies? Choose	
only the highest score that applies to the wetland being rated.	
Site meets ANY of the following criteria: points =	2
☐ It has 3 or more priority habitats within 100 m (see next page)	
☐ It provides habitat for Threatened or Endangered species (any plant	
or animal on the state or federal lists)	
☐ It is mapped as a location for an individual WDFW priority species	
☐ It is a Wetland of High Conservation Value as determined by the	0
Department of Natural Resources	
☐ It has been categorized as an important habitat site in a local or	
regional comprehensive plan, in a Shoreline Master Plan, or in a	
watershed plan	
Site has 1 or 2 priority habitats (listed on next page) with in 100m	₁
Site does not meet any of the criteria above points = Rating of Value If Score is: 2 = H 1 = M 2 = L Record rating on a	
Rating of Value If Score is:	ne msi page

Wetland ID: Wetland B

WDFW Priority Habitats

<u>Priority habitats listed by WDFW</u> (see complete descriptions of WDFW priority habitats, and the counties in which they can be found, in: Washington Department of Fish and Wildlife. 2008. Priority Habitat and Species List. Olympia, Washington. 177 pp.

http://wdfw.wa.gov/publications/00165/wdfw00165.pdf_or access the list from here: http://wdfw.wa.gov/conservation/phs/list/

Count how many of the following priority habitats are within 330 ft (100 m) of the wetland unit: **NOTE**: This question is independent of the land use between the wetland unit and the priority habitat.

Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
Biodiversity Areas and Corridors : Areas of habitat that are relatively important to various species of native fish and wildlife (<i>full descriptions in WDFW PHS report</i>).
Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
Old-growth/Mature forests : Old-growth west of Cascade crest – Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in (81 cm) dbh or > 200 years of age. Mature forests – Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.
Oregon White Oak : Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important (<i>full descriptions in WDFW PHS report p. 158</i> – see web <i>link above</i>).
Riparian : The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
Westside Prairies : Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie (<i>full descriptions in WDFW PHS report p. 161 – see web link above</i>).
Instream : The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources.
Nearshore : Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore. (<i>full descriptions of habitats and the definition of relatively undisturbed are in WDFW report</i> – see web link on previous page).
Caves : A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
Talus : Homogenous areas of rock rubble ranging in average size 0.5 - 6.5 ft (0.15 - 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
Snags and Logs : Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 20 in (51 cm) in western Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.

Note: All vegetated wetlands are by definition a priority habitat but are not included in this list because they are addressed elsewhere.

CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

Wetland ¹	Туре	Category			
	any criteria that apply to the wetland. List the category when the appropriate criteria are met.				
SC 1.0. E	stuarine Wetlands				
	Does the wetland meet the following criteria for Estuarine wetlands?				
	The dominant water regime is tidal,				
	Vegetated, and				
	With a salinity greater than 0.5 ppt				
	☐ Yes - Go to SC 1.1 ☐ No = Not an estuarine wetland				
SC 1.1.	Is the wetland within a National Wildlife Refuge, National Park, National Estuary Reserve,				
	Natural Area Preserve, State Park or Educational, Environmental, or Scientific Reserve				
	designated under WAC 332-30-151? ☐ Yes = Category I ☐ No - Go to SC 1.2				
SC 1.2.	Yes = Category I No - Go to SC 1.2 Is the wetland unit at least 1 ac in size and meets at least two of the following three conditions?				
	The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing, and has				
	less than 10% cover of non-native plant species. (If non-native species are <i>Spartina</i> , see page				
	25)				
	At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed				
	or un-mowed grassland.				
	The wetland has at least two of the following features: tidal channels, depressions with open				
	water, or contiguous freshwater wetlands.				
	Yes = Category I □ No = Category II				
SC 20 W	/etlands of High Conservation Value (WHCV)				
SC 2.1.	Has the WA Department of Natural Resources updated their website to include the list of				
30 2.1.	Wetlands of High Conservation Value?				
SC 2.2.	☐ Yes - Go to SC 2.2 ☐ No - Go to SC 2.3				
SC 2.2.	Is the wetland listed on the WDNR database as a Wetland of High Conservation Value?				
0000	☐ Yes = Category I ☐ No = Not WHCV				
SC 2.3.	Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?				
	http://www1.dnr.wa.gov/nhp/refdesk/datasearch/wnhpwetlands.pdf				
00 0 4	Yes - Contact WNHP/WDNR and to SC 2.4 No = Not WHCV				
SC 2.4.	Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation Value and listed it on their website?				
SC 3.0. Bogs					
SC 3.0. D	Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation in bogs?				
	Use the key below. If you answer YES you will still need to rate the wetland based on its				
	functions .				
SC 3.1.	Does an area within the wetland unit have organic soil horizons, either peats or mucks, that				
30 3.1.	compose 16 in or more of the first 32 in of the soil profile?				
	☐ Yes - Go to SC 3.3 ☐ No - Go to SC 3.2				
SC 3.2.	Does an area within the wetland unit have organic soils, either peats or mucks, that are less than				
00 3.2.	16 in deep over bedrock, or an impermeable hardpan such as clay or volcanic ash, or that are				
	floating on top of a lake or pond?				
	☐ Yes - Go to SC 3.3 ☑ No = Is not a bog				
SC 3.3.	Does an area with peats or mucks have more than 70% cover of mosses at ground level, AND at				
00 0.0.	least a 30% cover of plant species listed in Table 4?				
	☐ Yes = Is a Category I bog ☐ No - Go to SC 3.4				
	100 10 a Satisgory 1 bog 110 - 00 to 00 0.4				
	NOTE: If you are uncertain about the extent of mosses in the understory, you may substitute that				
	criterion by measuring the pH of the water that seeps into a hole dug at least 16 in deep. If the				
	pH is less than 5.0 and the plant species in Table 4 are present, the wetland is a bog.				
SC 3.4.	Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir, western				
	red cedar, western hemlock, lodgepole pine, quaking aspen, Engelmann spruce, or western				
	white pine, AND any of the species (or combination of species) listed in Table 4 provide more				
	than 30% of the cover under the canopy?				
	☐ Yes = Is a Category I bog ☐ No = Is not a bog				

SC 40 E	prested Wetlands			
	Does the wetlands Does the wetland have at least 1 contiguous acre of forest that meets one of these criteria for the WA Department of Fish and Wildlife's forests as priority habitats? If you answer YES you will still need to rate the wetland based on its functions.			
Ц	Old-growth forests (west of Cascade crest): Stands of at least two tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) that are at least 200 years of age OR have a diameter at breast height (dbh) of 32 in (81 cm) or more.			
	Mature forests (west of the Cascade Crest): Stands where the largest trees are 80- 200 years old OR the species that make up the canopy have an average diameter (dbh) exceeding 21 in (53 cm).			
	☐ Yes = Category I			
SC 5.0. W	etlands in Coastal Lagoons			
	Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?			
Ш	The wetland lies in a depression adjacent to marine waters that is wholly or partially separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently, rocks			
	The lagoon in which the wetland is located contains ponded water that is saline or brackish (> 0.5 ppt) during most of the year in at least a portion of the lagoon (needs to be measured near the bottom)			
☐ Yes - Go to SC 5.1 ☑ No = Not a wetland in a coastal lagoor SC 5.1. Does the wetland meet all of the following three conditions?				
Ц	The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing), and has less than 20% cover of aggressive, opportunistic plant species (see list of species on p. 100).			
	At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or un-grazed or un-mowed grassland.			
	The wetland is larger than $^{1}/_{10}$ ac (4350 ft ²)			
	☐ Yes = Category I ☐ No = Category II			
SC 6.0. In	terdunal Wetlands			
	Is the wetland west of the 1889 line (also called the Western Boundary of Upland Ownership or WBUO)? If you answer yes you will still need to rate the wetland based on its habitat functions.			
	In practical terms that means the following geographic areas:			
	Long Beach Peninsula: Lands west of SR 103			
	Grayland-Westport: Lands west of SR 105			
Ш	Ocean Shores-Copalis: Lands west of SR 115 and SR 109 Yes - Go to SC 6.1 No = Not an interdunal wetland for rating			
SC 6.1.	Is the wetland 1 ac or larger and scores an 8 or 9 for the habitat functions on the form (rates H,H,H or H,H,M for the three aspects of function)?			
SC 6.2.	☐ Yes = Category I ☐ No - Go to SC 6.2 Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger? ☐ Yes = Category II ☐ No - Go to SC 6.3			
SC 6.3.	Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and 1 ac?			
	☐ Yes = Category III ☐ No = Category IV			
	of wetland based on Special Characteristics	N/A		

