		Clean Water Services File Number
	Sensitive Areas Ce	ertification Form
1.	Property Information (example 1S234AB01400) Tax lot ID(s): 3S1060000104 Site Address: 17433 SW Brookman Road City, State, Zip: Sherwood, Oregon, 97140 Nearest Cross Street: SW Brookman Rd. & Pacific Hwy 99	2. Owner Information Name: Linda and Richard Scott Company: n/a Address: 17433 SW Brookman Road City, State, Zip: Sherwood, Oregon 97140 Phone/Fax: E-Mail:
3.	Development Activity (check all that apply) ☐ Addition to Single Family Residence (rooms, deck, garage) ☐ Lot Line Adjustment ☐ Minor Land Partition ☐ Residential Condominium ☐ Commercial Condominium ☐ Residential Subdivision ☐ Commercial Subdivision ☐ Single Lot Commercial ☐ Multi Lot Commercial Other	4. Applicant Information Name: Niki Munson Company: Riverside Homes Address: 17933 NW Evergreen Pkwy, #370 City, State, Zip: Beaverton, Oregon 97006 Phone/Fax: 503-645-0986 E-Mail: nmunson@riversidehome.com
5.	Check any of the following that apply to this project. ☐ Adds less than 500 square feet of impervious surface. ☐ Does not encroach closer to the Sensitive Area than existing development on the property. ☐ Is not located on a slope greater than 25%.	6. Applicant Information Name: Jack Dalton Company: Environmental Science & Assessment, LLC Address: 107 SE Washington Street, #249 City, State, Zip: Portland, OR 97214 Phone/Fax: 503-478-0424 E-Mail: jack@esapdx.com
7.	Will the project involve any off-site work? ☐ Yes ☑ No ☐ If yes, location and description of off-site work	Unknown (check appropriate box)
8.	Additional comments or information that may be needed to SW Brookman Road right of way improvements will be deferred to Washing be responsible for.	



				Clean Water Services File Number
Se	nsitive Ar	eas Certification Fo	rm (continued)	
9.	An on-site, wa	ter quality sensitive area reco	nnaissance was completed	ion:
	Date	Ву	Title	Company
	12/17-18/201	9 K. Reavis, K. Sanderford	Wetland Scientists	Environmental Science and Assessment
10.	As defined in th A. Water-quali	Vater Quality Sensitive Areas (the Districts Design and Construct ity-sensitive areas ☑ do ☐ do	ion Standards: not exist on the tax lot.	_
	adjacent pro C. Vegetated of D. Vegetated of E. Impacts to s	operty. corridors ☑do (136,610 corridors ☑do do not exist w sensitive areas and/or vegetated	SF)	the tax lot. rties, orunable to evaluate adjacent property. eOff-siteNone proposed at this time.
11.	Please refer to Complete C Written des Site plan of	Assessment containing the form Design and Construction Standar Certification Form (2 pages) acription of the site and proposed the entire property.	rds 17-05 section 3.02.2 for activity.	·
12.	Standard Site	Assessment containing the fol	lowing information: (check	conly items submitted).
	Please refer to	Design and Construction Standa	rds 17-05 section 3.02.2 for	application requirements.
	✓ Complete C	Certification Form (2 pages)		
	✓ Written des	cription per Design and Construc	ction Standards 17-05 section	n 3.13.3 b. 1
	✓ Wetland Da	ata sheets		
	✓ Vegetated 0	Corridor Data sheets		
	Existing Site	e Condition Figures		
	✓ Proposed D	Development Figures		
of Coproje	lean Water Servect site condition tify that I am fa	vices have authority to enter the ons and gathering information miliar with the information cor	ne project site at all reason related to the project site.	ve, acknowledges and agrees that employees able times for the purpose of inspecting and to the best of my knowledge and belief,
this	information is t	true, complete, and accurate.		
Арр	licant:			
	k Dalton			and Scientist
Print	/Type Name		Print/Type Titl	e
Sign	ature		 Date	



Table of Contents

INTRODUCTION	1
SITE DESCRIPTION	1
BROOKMAN ROAD RIGHT OF WAY	2
METHODOLOGY	3
SENSITIVE AREAS	3
WETLAND A AND TRIBUTARY	
CEDAR CREEK WETLANDS	4
CEDAR CREEK	5
VEGETATED CORRIDORS	5
PROPOSED SITE PLAN	6
Vegetated Corridor Impacts	6
VC MITIGATION AND ENHANCEMENT	7
PLANTING GUIDELINES	
REFERENCES	9

List of Appendices

APPENDIX A: FIGURES

APPENDIX B: SITE PHOTOGRAPHS

APPENDIX C: WETLAND DETERMINATION DATA FORMS APPENDIX D: VEGETATED CORRIDOR DATA FORMS

INTRODUCTION

Environmental Science & Assessment, LLC (ES&A) was contracted by Riverside Homes to conduct a site assessment on 10.35-acre site at 17433 SW Brookman Road in Sherwood, Oregon (Figure 1). The study area includes one tax lot located in Section 6, Township 3 South, Range 1 West: Tax Lot 104 on Washington County's assessor's map 3S106.

SITE DESCRIPTION

The site is located within the Brookman Addition community in the south end of Sherwood, Oregon (Figure 1). The site is a large acre parcel with a residential subdivision to the north, Hazelnut orchard to the south, and Cedar Creek riparian corridor to the east. The site includes a single-family home and several outbuildings and structures. A packed dirt driveway extends into the site from SW Brookman Road at the southwest corner. The driveway splits into two dirt roads: one extends to the residence and the other extends into the open grass area near the outbuildings in the northwest site corner. The southern and eastern areas of the site are forested with a riparian forested community along Cedar Creek, which flows through the southwestern site corner (Figure 2, 3). There are multiple wetland areas within the Cedar Creek floodplain.

The site is bare ground and mowed grass in the northwest half of the site surrounding the residence and outbuildings. The remainder of the site is a mix of riparian and wetland communities. The riparian areas include mature Douglas fir (*Pseudotsuga menziesii*), Douglas Hawthorn (*Crataegus douglasii*), Oregon ash (*Fraxinus latifolia*), and Big Leaf Maple (*Acer macrophyllum*) with a canopy cover of up to 90 percent throughout. Understory plants include mainly native species such as Western Beaked Hazelnut (*Corylus cornuta*), Vine Maple (*Acer circinatum*), Snowberry (*Symphoricarpos albus*), Serviceberry (*Amelanchier alnifolia*), Osoberry (*Oemleria cerasiformis*) and Swordfern (*Polystichum munitum*).

The residence was built in 1976 and the site has been managed in its current condition since that time. The subdivision to the north was built in 1997. The parcel to the south is a large acreage single family home. Surrounding parcels to the north, east, and west are large acreage single-family properties slated for development of residential subdivisions (Figure 4).

The topography slopes from the northwest site corner southeast towards the Cedar Creek riparian corridor. The topography at the northwest corner is generally flat within the maintained grass areas but begins to slope 14-30% down through the riparian corridor approaching Cedar Creek. There is a high point in the southeast site corner, where topography slopes northwest approaching Cedar Creek with 21-28% slopes.

The soils within the northern half of the study area are mapped as Aloha silt loam (Map Unit 1) and Woodburn silt loam, 3 to 7 percent slopes (45B), with both soil

types of hydric rating 1. In the south end, along the Cedar Creek channel soils include Verboort silty clay loam, 0 to 3 percent slopes (2027A) and Wapato silty clay loam (43). Both these soil types have high hydric ratings; 99 and 92 rating respectively. The southeastern site corner is mapped a non-hydric soil, Willamette silt loam, 3 to 7 percent slopes (44B), with a hydric soil rating of 3.

The site is outside the study area for the Sherwood Local Wetlands Inventory (LWI) map and the National Wetland Inventory (NWI) maps Cedar Creek as a Freshwater Forested/Shrub wetland (PFO1). Additionally, the Brookman Addition Concept Plan maps Class 1 Riparian along the Cedar Creek corridor with wetlands located within the floodplain area.

Brookman Road Right of Way

The southern site boundary is in the public right of way (ROW) for SW Brookman Road and will be impacted for improvements. City of Sherwood has allowed the developer in this case to defer improvements and mitigation for encroachment into wetland and waters within the Cedar Creek floodplain.

From the existing driveway on the western site boundary to about 75-feet east along Brookman Rd., the right of way is forested with mature Douglas Fir canopy and dense English Ivy (*Hedera helix*) in the understory. The area between the constructed channel and SW Brookman Rd is good condition forested area and runs in a uniform strip east to the culvert where Cedar Creek passes under the road. East of this culvert the area in the right of way slopes steeply up with slopes >20% from Cedar Creek into a forested area with mature Douglas Fir and Sword Fern in the understory. This forested area continues offsite to the east.

Topography indicates Cedar Creek and the tributary historically converged in the southwest site corner to create Wetland A along the southern site edge. When SW Brookman Road was built, Cedar Creek was channelized offsite along the southern side of the road and flows through a flat bottom culvert into the southeast corner, which severed the historic connection between wetland A and Cedar Creek. A channel was dug on the eastern edge of the wetlands about 50-feet north of and parallel to Brookman Road, to convey the tributary/wetland waters to Cedar Creek. The channel is about 180-feet long, straight, uniform in width and depth, and was likely installed during the road construction (Photo 6, Figure 3).

METHODOLOGY

The primary guidance document for this report is the *Design and Construction Standards for Sanitary Sewer and Surface Water Management* (Resolution and Order 19-22; Clean Water Services, 2019), which provides the methodology for assessing the presence and extent of Sensitive Areas (SAs) within the development site and within 200 feet of the site, and the required Vegetated Corridors (VCs) adjacent to them.

Two levels of investigation were used to evaluate the presence or absence of Sensitive Areas. The first level included a review of existing and available background data. The second level consisted of a data collection effort conducted during an on-site evaluation.

Reviewed background data included the following information:

- U.S. Geological Survey (USGS) 1:24,000 Topographic Map (MetroMap 2013).
- U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) Map Washington County, OR area (Wetlands Mapper, 2019)
- Sherwood Local Wetlands Inventory (David Evans, Inc, 1992)
- Natural Resource Conservation Service (NRCS) Soil Survey of Washington County Area, Oregon (Web Soil Survey, 2019)
- Brookman Addition Concept Plan Final Report (Otak 2009)

ES&A wetland scientists, Kim Reavis and Kim Sanderford conducted the site investigations on December 17-18, 2019. ES&A collected wetland determination data at seventeen (17) locations to define the wetland boundaries (Figure 3). The wetlands are documented by wetland delineation data forms DP-1 through DP-17 (Appendix C). CWS VC data was recorded at seven (7) VC data plots to characterize the adjacent VC (Appendix D).

The wetland delineation data was collected using the methodology provided in the Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0) (USACE, 2010).

The Sensitive Area boundaries and the data plot locations were flagged in the field and subsequently surveyed by Pioneer Design Group, a professional land surveyor (Figure 3). The Vegetated Corridor data locations (VC1 –VC7) were mapped in the field from known locations and added to the base survey.

SENSITIVE AREAS

There are four main resource areas located within the southern portion of the site which include: eight (8) wetland areas, the main Cedar Creek channel, an unnamed tributary, and a constructed channel (Figure 3). The tributary flows seasonally from offsite through the driveway culvert west to southeast (Photo 1)

until it's outfall into Wetland A onsite. The constructed channel then flows from wetland A due east about 180-feet to an outfall into Cedar Creek. Cedar Creek flows into the site through a culvert under SW Brookman Road in the southeast site corner. The creek then flows south to northeast through the riparian corridor and extends offsite to the northeast. (Figure 3). All mapped water resources are within the 100-year Cedar Creek flood plain.

The plant community in the wetland areas of site is primarily Slough Sedge (*Carex obnupta*) with Oregon Ash canopy cover, with Wild Gooseberry (*Ribes divaricatum*) in the understory in wetland areas in the southeastern site corner.

Wetland A and Tributary

Wetland A is a Palustrine Forested Broad-leaved Deciduous seasonally flooded (PFO1C) wetland, totaling 10,582 square feet (0.24 acres). Topography indicates this wetland is associated with the area historically created where Cedar Creek and the tributary converged in the southwest site corner. The wetland determination data plots associated with Wetland A are DP-14 through DP-17 (Appendix C).

The plant community within and adjacent to Wetland A is Oregon Ash canopy cover with Red-Osier Dogwood (*Cornus sericea*) in the shrub strata and dense Slough sedge) in the herbaceous layer.

Wetland hydrology is collection of overland flow from the onsite tributary, seasonal surface water ponding, and high seasonal groundwater. Hydric soils met Redox Dark Surface (F6) indicator (Appendix B).

Cedar Creek Wetlands

The Cedar Creek Wetlands are a series of seven small Palustrine Forested Broad-leaved Deciduous seasonally flooded (PFO1C) wetlands, totaling 11,577 square feet (0.26 acres), and are in the south-central, southeast and eastern area of the site (Figure 3). The wetlands are located both east and west of the Cedar Creek channel (Photo 4), all within 80-feet.

In the four wetland areas east of the creek in the southeast site corner at the toe of the forested slope, the vegetation is primarily mature Oregon Ash with dense patches of Slough Sedge. There are four small functional wetland areas, surrounded by riparian habitat. Shrub cover within and along the wetlands includes, Osoberry, Wild Gooseberry, and Red-Osier Dogwood. Other tree cover in the southeast site corner within the floodplain includes Douglas fir, Wild Cherry (*Prunus avium*) and Douglas Hawthorn.

In the three wetland areas west of Cedar Creek in the south-central and eastern portion of the site, the canopy is Oregon Ash with Red-Osier Dogwood in the understory and dense Slough Sedge in the herbaceous layer (Photo 2). Within one of the wetland areas associated with Cedar Creek is a mature Douglas Fir

with a buttressed base, a morphological adaptation indicating long term inundation in this area (DP-11).

The hydric soils met Redox Dark Surface (F6) indicators (Appendix B). The wetland determination data plots associated with the Cedar Creek Wetlands are DP-2 through DP-8 and DP-10 through DP-13 (Appendix C).

Cedar Creek

The Cedar Creek channel flows from a culvert under SW Brookman Road (Photo 5) at the southeastern edge of site in an "S" shape: curving northeast, northwest, then east and extending offsite along the southeastern property boundary. The constructed channel (Photo 6) conveys flow from wetland A in the southwest corner to Cedar Creek about 20-feet north of the Brookman Road culvert. Additionally, seasonal inundation from Cedar Creek backs up into the constructed channel.

The riparian forested community bordering both sides of Cedar Creek extends approximately 100-feet on both sides. The stream channel is 6 to 8 feet wide at the Ordinary High Water (OHW) line and is bordered by wetland areas intermingled with riparian areas (Figure 3). The vegetative community is forested wetland and riparian habitat comprised of species already discussed for the associated Cedar Creek Wetlands above.

VEGETATED CORRIDORS

The total area of vegetated corridor is 137,711-square feet on site (Figure 3). Seven (7) vegetated corridor plots were taken to identify the condition of the vegetated corridor. The VC in the southwest site corner along the tributary (VC-1) is in good condition despite a dense herbaceous layer of primarily English Ivy between the tributary and SW Brookman Road. VC east and west of the Cedar Creek channel within the floodplain is in good condition, with mature Oregon Ash, Western Beaked Hazelnut and Osoberry throughout and patches of dense Piggy Back Plant (*Tolmiea menziesii*) in the herbaceous layer (VC-3 to VC-6). In the southeast site corner, the VC adjacent to the wetland areas is in good condition (Photo 3) and plant community shifts to Douglas Fir and Serviceberry with Swordfern in the understory as the slopes increase towards SW Brookman Road (VC-7). The corridor adjacent to the constructed channel in the SW Brookman Road ROW is in good condition (Photo 6, VC-2).

There is extensive English Ivy cover from the driveway between SW Brookman Rd. and the tributary in the forested areas extending into the VC associated with wetland A in the southwest corner. The remainder of the riparian and wetland areas of the site have low percent relative cover of invasive and non-native plants.

The VC width for most of the corridor along wetland A, Cedar Creek, and the associated Cedar Creek Wetlands is 50 feet in areas of less than 25% slopes.

There are several areas onsite where slopes are greater than 25%, for these areas, a break in slope line was determined based on CWS methodology (R&O 19-22). All areas with steep slopes are within good condition corridor, so the 35-foot off-set from the slope break is used. The VC for the northern most wetland is 25 feet based on less than 25% slopes and the wetland being under 0.5 acres. The slope break was determined using the base topographic map provided by Pioneer Design Group, Inc (Figure 3).

PROPOSED SITE PLAN

The proposed project is a 28-lot residential subdivision. Access to the central area of the development is from SW Wapato Lake Drive extending east from the approved "Middlebrook" subdivision on the west side through to the northeast corner, where it connects to the "Middlebrook" subdivision at the end. Access to the northern lots is from SW Trillium Lane, an offsite road running east-west through the adjacent subdivision to the north (Figure 4).

The site plan clusters all lots on the northwestern side of Cedar Creek and the tributary with a community trail extending between the development and the riparian corridor. The trail will utilize the existing driveway and culvert crossing in the southwest corner before turning east to follow the riparian corridor corresponding to the VC corridor. The trail follows the VC corridor boundary until it reaches the northeast corner, where it passes through the VC to connect to the adjacent subdivision to the east (Figure 4). The community trail has a proposed retaining wall along its southern boundary necessary to keep the trail outside the steep slopes and reduce grading into the VC associated with Cedar Creek.

There are two open space tracts planned. One open space tract is in the northeast site corner adjacent to the northeast end of the community trail, and the other is a large open space tract containing the Cedar Creek floodplain and all water resources onsite, south of the community trail (Figure 4). The proposed plan also includes a water quality facility (Tract E) in the southwestern area of site between the proposed road and VC corridor north of the tributary.

Vegetated Corridor Impacts

Permanent VC Impacts (total: 6,451 SF) to be mitigated on site:

- Impacts from the community trail and retaining wall construction
 - Encroachment into the VC at several locations (1,036 SF)
 - Some tree removal recommended by arborist for safety reasons
- Right of Way impacts along SW Brookman Road (5,350 SF)
- Water Quality Facility pipe outfall (65 SF)

Temporary VC Impacts (total: 1,085 SF) to be mitigated on site:

• Installation of the stormwater pipe See Figure 4 for location of all VC impacts The current gravel driveway will be utilized for the community trail to the extent possible (Figure 4), minimizing impact to the surrounding good quality VC. Utilizing this existing feature in the construction of the community trail will decrease total impact. No permanent or temporary wetland or waterway impacts are proposed.

VC impacts will result from frontage improvements along about 145-feet of SW Brookman Road required by City of Sherwood. Frontage improvements impact VC in the southwest and southeast site corners in the right of way but exclude impacts within the Cedar Creek floodplain. The City of Sherwood has allowed the remainder of required frontage improvements to be deferred due to the complicated and expensive nature of replacing the stream crossing in a floodplain area, as discussed at the project pre-application conference on November 7, 2019. Washington County will address the floodplain, wetland, and waters encroachment later within the overall SW Brookman Road ROW improvements.

VC Mitigation and Enhancement

There will be two mitigation areas for permanent impacts. One is in the southwest corner adjacent to the proposed community trail and improvements along SW Brookman Road; the other is in the northeast site corner along the community trail and adjacent to the VC associated with Cedar Creek. The two mitigation areas total 6,451 square feet. Considering the good condition of the CWS VC habitat in both planned mitigation areas, minimal plantings are proposed to replace removed trees in combination with invasive species removal. Temporary impacts will be mitigated in place, totaling 1,085 square feet (Figure 4).

- VC Permanent Impact Mitigation (6,451 SF)
 - Total plantings: 7 trees to be planted in mitigation areas
 - Invasive plant removal
- VC Enhancement (137,711 SF)
 - o Invasive plant removal in all VC area
- VC Temporary Impact Mitigation (1,085 SF)
 - o Plant 11 trees, 55 shrubs

Planting Guidelines

Final locations of enhancement plantings will be determined in the field based on site conditions following the removal of the invasive non-native species. After plant removal, all areas of bare ground within the good condition and planting areas that exceed 25 square feet upon removal of the invasive non-native species shall be planted to CWS density standards (shrubs 5 foot on center spacing, or clustered 3 foot on center and trees 10-foot on-center spacing).

Table 1 is a suggested list of native species that can be planted in the VC temporary impact mitigation area. Table 2 is a suggested seed mix to be distributed in areas disturbed or denuded by the proposed site plan or invasive removal, as well as in areas with low understory diversity in the enhancement

and mitigation areas. This is a recommended seed mix, but any mix of herbaceous species native to shady riparian areas of western Oregon would be well suited to mitigation and enhancements areas planned for this site.

The plant list and planting densities are subject to final approval from CWS environmental review staff. A condition of the Service Provider Letter will be to coordinate with CWS on the final quantity and placement of the enhancement plantings.

Table 1: Recommended Plant List for VC Enhancement/ Mitigation Areas A

Table 1. Necollille	nded Plant List for V	C Lillianceme	illy willigation Area	a5 A
Common Name	Scientific Name	Plant Form/Size ¹	Plant Spacing (ft on center)	Total Number of plants
VC MITGATION AF	REAS (7,536 SF)			
Trees				18
Vine Maple	Acer circinatum	1 gal/18"	10 ft O.C.	5
Oregon Ash	Fraxinus latifolia	2 gal/36"	10 ft O.C.	5
Douglas fir	Pseudotsuga menziesii	2 gal/36"	10 ft O.C.	5
Western red cedar	Thuja plicata	2 gal/36"	10 ft O.C.	3
Shrubs				55
Serviceberry	Amelanchier alnifolia	1 gal/18"	Single 5 ft O.C.	5
Beaked Hazelnut	Corylus cornuta	1 gal/18"	Single 5 ft O.C.	5
Oregon Grape	Mahonia aquifolium	1 gal/18"	Cluster 3-5, 3 ft O.C.	5
Osoberry	Oemleria cerasiformis	1 gal/18"	Single 5 ft O.C.	10
Swordfern	Polystichum munitum	1 gal/18"	Cluster 3-5, 3 ft O.C.	10
Red Flowering Currant	Ribes sanguineum	1 gal/18"	Single 5 ft O.C.	5
Red Elderberry	Sambucus racemosa	1 gal/18"	Single 5 ft O.C.	5
Snowberry	Symphoricarpos albus	1 gal/18"	Cluster 3-5, 3 ft O.C.	10

NOTES: ¹ Substitutes for plant form and species may be used based on availability. ² Individual species quantities to be determined in landscape plan.

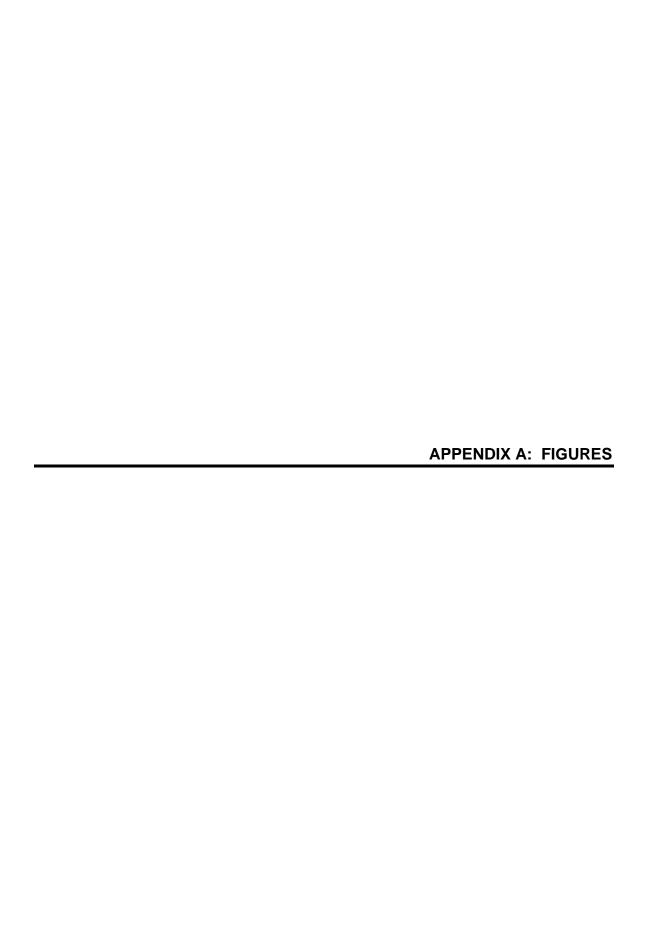
Table 2. Enhancement Area Seed Mix

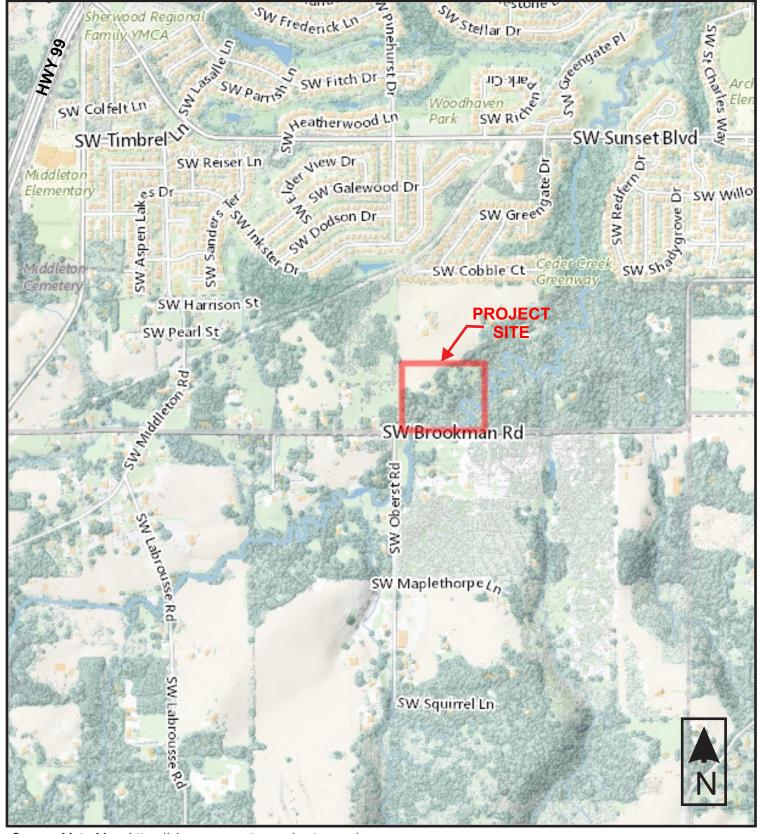
Common Name	Scientific Name	Percentage of Seed Mix **							
Native Wildflower/Grass Mix									
Native California brome	Bromus carinatus	15							
Blue wildrye	Elymus glaucus	30							
Meadow barley	Hordeum brachyantherum	15							
Spike bentgrass	Agrostis exarata	20							
California Oat Grass	Danthonia californica	20							
	TOTAI	_ 100							

^{*}Seeding rate of pure live seed (PLS) in pounds per acre for hydroseed application. **Seed mix application quantity is to be calculated for VC planting area and is subject to availability and measure PLS.

REFERENCES

- Clean Water Services, 2017. Design and Construction Standards for Sanitary Sewer and Surface Water Management. R&O 19-22.
- David Evans Associates, 1992. Sherwood Local Wetlands Inventory.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, US Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Google Earth. 2020. Aerial Photography. https://earth.google.com/. Accessed December 2019
- Metro. 2016. Metro Data Resource Center's MetroMap GIS Application. Available online at: http://gis.oregonmetro.gov/metromap/. Accessed December 2019
- Natural Resources Conservation Service, United Stated Department of Agriculture. Web Soil Survey. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed December 2019
- Otak. Brookman Addition Concept Plan. www.sherwoodoregon.gov/. Accessed December 2019.
- The Oregon Map. Tax lot map 3S106, Washington County. www.ormap.net.
- U.S. Army Corps of Engineers (USACE). 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0), ed. J.S. Wakeley, R. W. Lichvar, and C.V. Noble. ERDC/EL TR-10-3. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U. S. Fish and Wildlife Service. 2016. National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. Available online at http://www.fws.gov/wetlands/. Accessed December 2019





Source: MetroMap, https://gis.oregonmetro.gov/metromap/.

Environmental Science & Assessment, LLC



Vicinity Map Riverside at Cedar Creek Sherwood, Oregon Figure 1

Approx. Scale: 1in. = 760 ft.



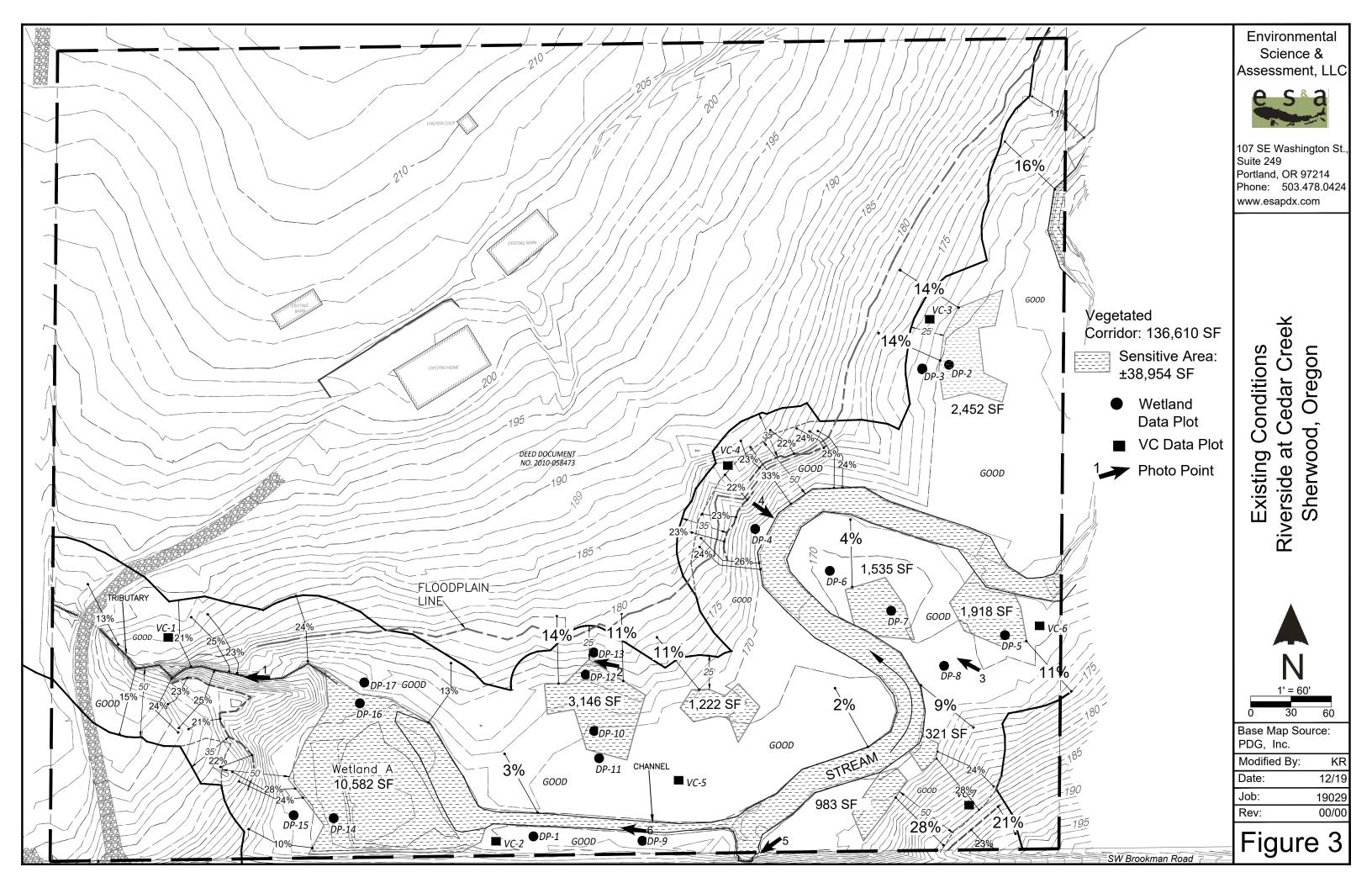
Source: MetroMap, https://gis.oregonmetro.gov/metromap/.

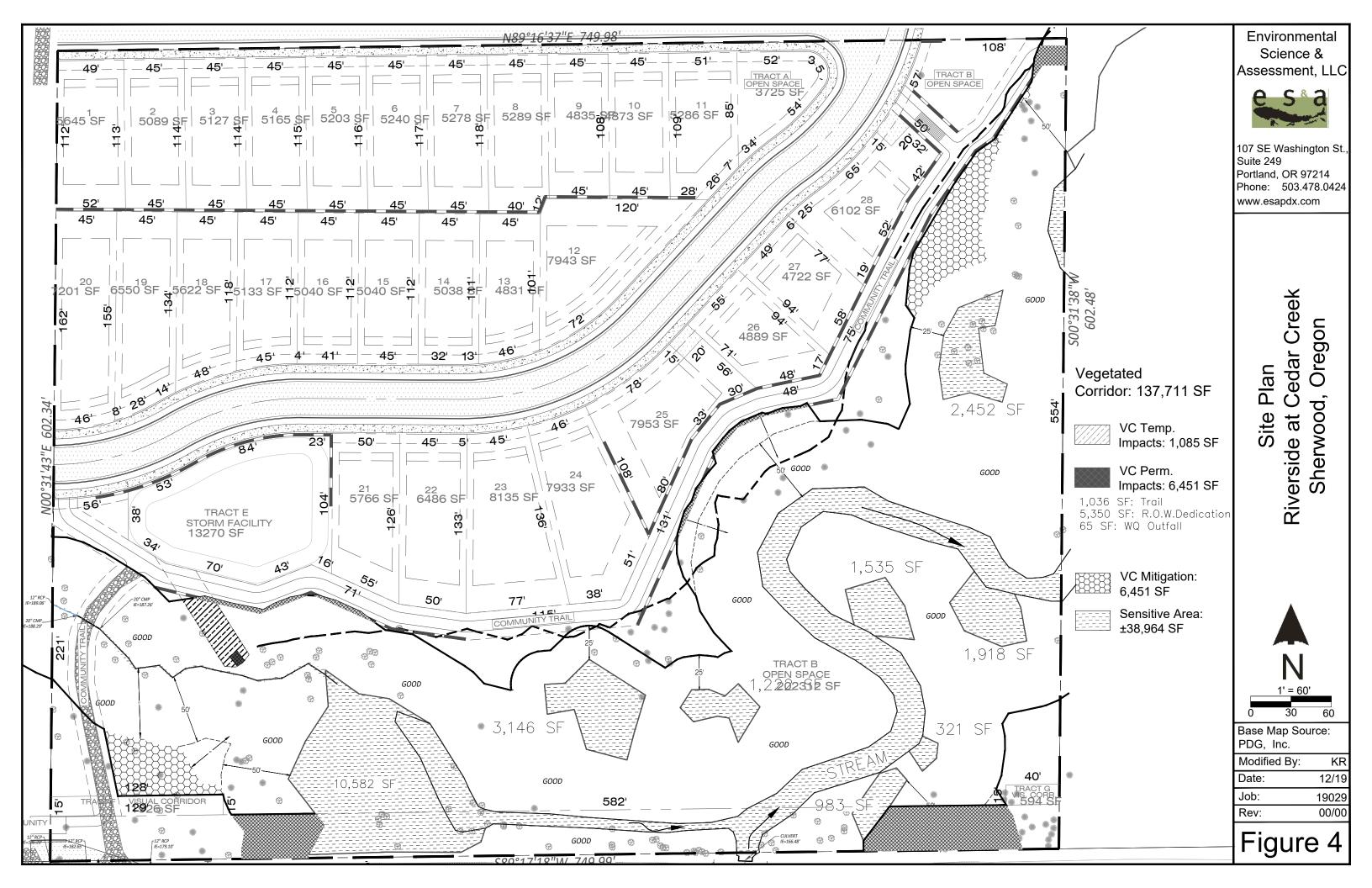
Environmental Science & Assessment, LLC



Aerial Map Riverside at Cedar Creek Sherwood, Oregon Figure 2

Approx. Scale: 1in. = 110 ft.





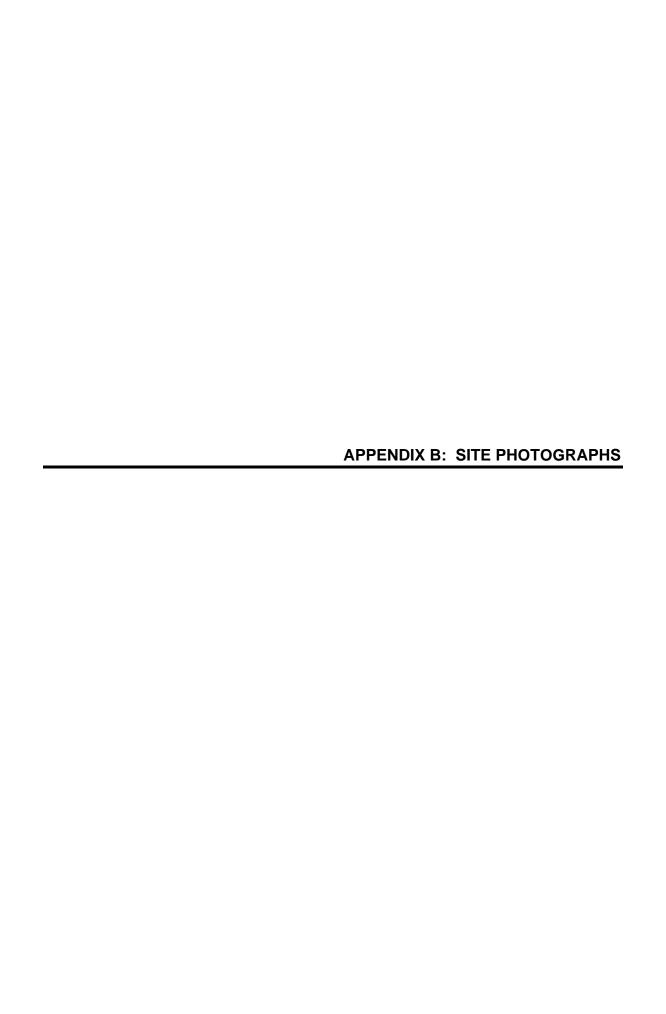




Photo 1: Pointing west up unnamed tributary



Photo 2: Edge of wetland, wetland on the left, upland on the right



Photo 3: View northwest in VC associated with east side of Cedar Creek (DP-8)



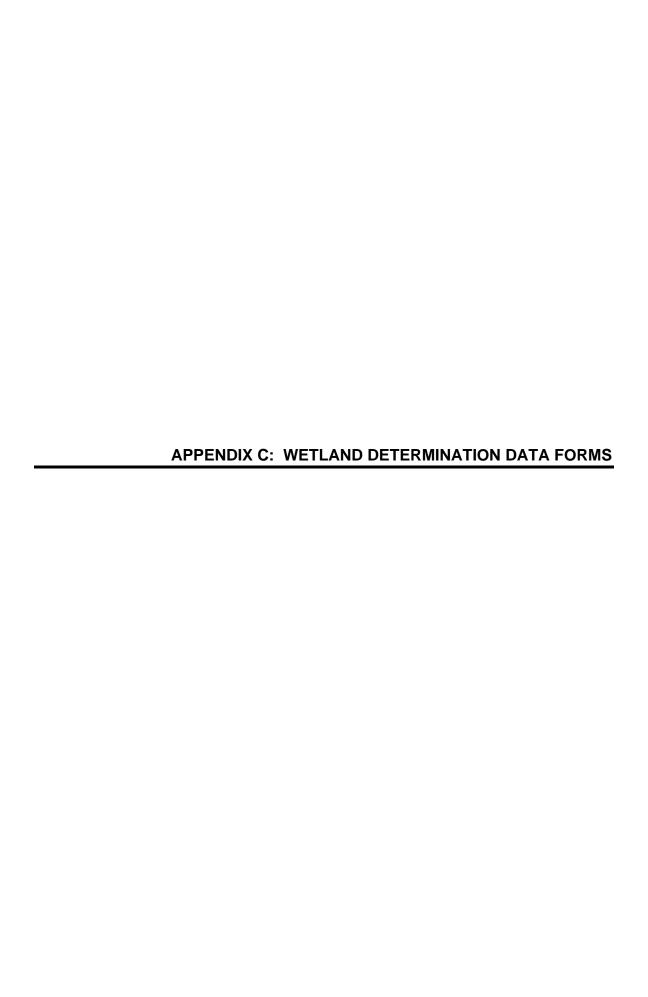
Photo 4: Cedar creek showing Slough Sedge (Carex obnupta) patches on both sides



Photo 5: Pointing south where Cedar Creek passes under SW Brookman Rd.



Photo 6: Pointing west along constructed channel with SW Brookman Rd. and VC-2 to the left



Project/Site: Brookman/Sherwood		City/Co	ounty:	Sherwoo	od	Samplin	g Date: 12/17/	/2019
Applicant/Owner: Riverside Homes					State: OR			
Investigator(s): K. Reavis, K. Sanderford								
Landform (hillslope, terrace, etc.): riparian, floodplain		Local	relief (concave, o	convex, none): none		Slope (%):	: <5%
Subregion (LRR): A-Northwest Forests and Coasts								
Soil Map Unit Name: _ Aloha Silt Loam, map unit 1, rating					NWI classific			
Are climatic / hydrologic conditions on the site typical for this ti								
Are Vegetation, Soil, or Hydrology sign	-				Normal Circumstances" p			lo
Are Vegetation, Soil, or Hydrology nat								
SUMMARY OF FINDINGS – Attach site map sh								s, etc.
Hydrophytic Vegetation Present? Yes X No				<u> </u>	,			<u> </u>
Hydric Soil Present? Yes No				Sampled				
Wetland Hydrology Present? Yes No _	×		withii	n a Wetlan	id? Yes	No	<u> </u>	
Remarks: Precipitation for the water year to date is 36%								
VEGETATION . Has a singlification of plants								
VEGETATION – Use scientific names of plants		Dami	: -	la dia atau	Dominance Test work	rahaati		
	Absolute <u>% Cover</u>			Indicator Status	Number of Dominant S			
1. Fraxinus latifolia	75	Υ		FACW	That Are OBL, FACW,		5	(A)
2. Pseudotsuga menziesii	10			FACU	Total Number of Domin	ant		
3					Species Across All Stra		5	(B)
4					Percent of Dominant S	necies		
Sapling/Shrub Stratum (Plot size: 30' diameter	85	_ = Tota	al Cov	er	That Are OBL, FACW,		100	(A/B)
1. Rosa pisocarpa	30	Υ	,	FAC	Prevalence Index wor	ksheet:		
2. Acer circinatum	30	Y		FAC	Total % Cover of:		Multiply by:	
3. Cornus sericea	20	Y		FACW	OBL species 75	^		_
4					FACW species 95		2 = 190	
5					FAC species 60	^\	3 = 180	_
	80	= Tota	al Cov	er	FACU species 10	^-	4 = 40	_
Herb Stratum (Plot size: 5' diameter)		_		0.01	Of Lapecies	^`	5 = 0	
1. Carex obnupta	75	Y		OBL	Column Totals: 240	<u>U</u> (A)	,	(B)
2. Polystuchum munitum	trace			FACU	Prevalence Index			_
3					Hydrophytic Vegetation			
4					1 - Rapid Test for I		-	
5					✓ 2 - Dominance Tes			
6					✓ 3 - Prevalence Inde			
7					4 - Morphological A data in Remark			
9					5 - Wetland Non-V		• /	
10					Problematic Hydro	phytic Ve	getation¹ (Expla	ıin)
11					¹ Indicators of hydric soi			must
		= Tota	al Cove	er	be present, unless distr	urbed or p	roblematic.	
Woody Vine Stratum (Plot size:)		_						
1					Hydrophytic			
2					Vegetation Present? Ye	s ×	No	
% Bare Ground in Herb Stratum 25		_= Tota	al Cove	er				
Remarks:								
1								

Depth	Matrix			Redo	x Features				
(inches)	Color (moist)	%	Cold	or (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12"	7.5 YR 2.5/3	100%						silt loam	
							,		
								-	<u> </u>
	_		-						
									-
									_
	oncentration, D=De						d Sand Gra		ocation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applic	cable to all	LRRs,	unless othe	rwise note	d.)		Indicat	tors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sa	ndy Redox (S5)			2 c	cm Muck (A10)
Histic Ep	oipedon (A2)		Str	ipped Matrix	(S6)			Re	ed Parent Material (TF2)
Black Hi	stic (A3)		Lo	amy Mucky N	Mineral (F1) (except	MLRA 1)	Ve	ery Shallow Dark Surface (TF12)
Hydroge	en Sulfide (A4)		Lo	amy Gleyed	Matrix (F2)			Otl	her (Explain in Remarks)
Depleted	d Below Dark Surfac	ce (A11)	De	pleted Matrix	(F3)				
Thick Da	ark Surface (A12)		Re	dox Dark Su	rface (F6)			³ Indicat	tors of hydrophytic vegetation and
Sandy M	Mucky Mineral (S1)		De	pleted Dark	Surface (F	7)		wetl	land hydrology must be present,
Sandy G	Bleyed Matrix (S4)		Re	dox Depress	ions (F8)			unle	ess disturbed or problematic.
Restrictive	Layer (if present):								
Type: roo	ot refusal								
Depth (in	ches): 12"							Hydric So	il Present? Yes No X
Remarks:			•						
HYDROLO									
Wetland Hy	drology Indicators								
Primary India	cators (minimum of	one require	d; check	all that appl	y)			Seco	ondary Indicators (2 or more required)
Surface	Water (A1)			_ Water-Sta	ined Leave	s (B9) (ex	cept		Water-Stained Leaves (B9) (MLRA 1, 2,
High Wa	ater Table (A2)				1, 2, 4A, a		•		4A, and 4B)
Saturation				Salt Crust		,			Drainage Patterns (B10)
	larks (B1)			 '	vertebrates	(B13)		·	Dry-Season Water Table (C2)
	nt Deposits (B2)				Sulfide Od				Saturation Visible on Aerial Imagery (C9)
	posits (B3)		-		Rhizospher	, ,	iving Root		Geomorphic Position (D2)
	at or Crust (B4)			_	of Reduce	•	•	` ' —	Shallow Aquitard (D3)
_									
	oosits (B5)		_	_ '	n Reductio		, ,		FAC-Neutral Test (D5)
	Soil Cracks (B6)			 '	Stressed	•) (LRR A)	· <u></u>	Raised Ant Mounds (D6) (LRR A)
	on Visible on Aerial			_ Other (Exp	olain in Rei	narks)		_	Frost-Heave Hummocks (D7)
	y Vegetated Concav	e Surface ((B8)						
Field Obser	vations:		_						
Surface Wat	er Present?	/es	No <u>√</u>	Depth (in	ches):		_		
Water Table	Present?	/es	No <u></u> ✓	Depth (in	ches):		_		
Saturation D			No ✓	Depth (in	ches):		Wetla	and Hydrolog	gy Present? Yes No X
Saluration	resent?	res es			,			•	··
(includes car	oillary fringe)								
(includes car				well, aerial	photos, pre	vious insp	pections), i	f available:	
(includes car	oillary fringe)			well, aerial	photos, pre	vious insp	pections), i	f available:	
(includes cap Describe Re	oillary fringe) corded Data (strean	n gauge, m	onitoring						okman Road and above the elevation of
(includes cap Describe Re Remarks: Da	oillary fringe) corded Data (strean	n gauge, m	onitoring						okman Road and above the elevation of
(includes cap Describe Re Remarks: Da	oillary fringe) corded Data (strean ata plot location is I	n gauge, m	onitoring						okman Road and above the elevation of
(includes cap Describe Re Remarks: Da	oillary fringe) corded Data (strean ata plot location is I	n gauge, m	onitoring						okman Road and above the elevation of
(includes cap Describe Re Remarks: Da	oillary fringe) corded Data (strean ata plot location is I	n gauge, m	onitoring						okman Road and above the elevation of

Project/Site: Brookman/Sherwood		City/Co	ountv	Sherwoo	od	Sampling Date:	12/17/2019
Applicant/Owner: Riverside Homes					State: OR		
• •					nge: township 3 south,		
Landform (hillslope, terrace, etc.): riparian, floodplain							
Subregion (LRR): A-Northwest Forests and Coast							
Soil Map Unit Name: Woodburn Silt Loam, 3 to 7% sl							
Are climatic / hydrologic conditions on the site typical for the							
Are Vegetation, Soil, or Hydrology							^ No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	tic?	(If ne	eded, explain any answer	's in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	plin	g point lo	ocations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes X							
Hydric Soil Present? Yes X				e Sampled in a Wetlan		No	
Wetland Hydrology Present? Yes X			WILLI	iii a vvetiaii	id: 165		-
Remarks: Precipitation for the water year to date is 36	%						
VEGETATION – Use scientific names of plan	nts.						
20. 11	Absolute			Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30' diameter)	% Cover				Number of Dominant Sp		44.5
1. Fraxinus latifolia		<u>Y</u>			That Are OBL, FACW, o	or FAC:	(A)
2					Total Number of Domina		(D)
3					Species Across All Stra	ta: <u>3</u>	(B)
4	40	= Tot	al Co	ver	Percent of Dominant Sp That Are OBL, FACW, of) (A/B)
Sapling/Shrub Stratum (Plot size: 30' diameter		00	u. 00		Prevalence Index worl		<u>у</u> (А/В)
1. Cornus sericea	60	Y		FACW	Total % Cover of:		y by:
2					OBL species		
3					FACW species		
4					FAC species		
5			-1.0-		FACU species		
Herb Stratum (Plot size: 5' diameter)	60	_= 100	ai Co	ver	UPL species	x 5 =	
Carex obnupta	80	Y		OBL	Column Totals:	(A)	(B)
2					Prevalence Index	= B/A =	
3					Hydrophytic Vegetation		
4					1 - Rapid Test for H	lydrophytic Veget	ation
5					✓ 2 - Dominance Tes		
6					3 - Prevalence Inde		
7					4 - Morphological A	Adaptations ¹ (Prov s or on a separate	
8					5 - Wetland Non-Va		: Sileet)
9					Problematic Hydrog		(Explain)
10 11					¹ Indicators of hydric soil		` ' '
· · ·	80				be present, unless distu		
Woody Vine Stratum (Plot size:)							
1					Hydrophytic		
2					Vegetation Present? Yes	s × No	
% Bare Ground in Herb Stratum 20		_= Tota	al Cov	/er	100		
Remarks:					<u> </u>		

		to the dep	otn needed to docum			or commi	i the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>k Feature</u> %	Type ¹	Loc ²	Texture	Remarks
0-8"	7.5 YR 2.5/2	100					silt loam	
8-14"	10 YR 3/2	93	7.5 YR 4/3	7	С	M	silt loam	some clay
14-17"	7.5 YR 3/2	90	5 YR 3/4	10	С	M	silt clay loam	
¹Tvpe: C=Co	ncentration. D=De	oletion. RM:	=Reduced Matrix, CS	=Covered	d or Coate	d Sand Gr	ains. ² Loc	cation: PL=Pore Lining, M=Matrix.
			LRRs, unless other					rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S	35)			2 cn	n Muck (A10)
	ipedon (A2)		Stripped Matrix	. ,				Parent Material (TF2)
Black His	, ,		Loamy Mucky M			MLRA 1)		/ Shallow Dark Surface (TF12)
	n Sulfide (A4)	(Δ44)	Loamy Gleyed N		2)		Othe	er (Explain in Remarks)
	l Below Dark Surfac irk Surface (A12)	ce (A11)	Depleted Matrix ✓ Redox Dark Sur	. ,			³ Indicato	ors of hydrophytic vegetation and
	lucky Mineral (S1)		Depleted Dark S					nd hydrology must be present,
-	leyed Matrix (S4)		Redox Depress	•	,			s disturbed or problematic.
Restrictive L	ayer (if present):							
Type:								
Depth (inc	ches):						Hydric Soil	Present? Yes X No No
Remarks:							L	
HYDROLO	CV							
		_						
_	drology Indicators		d. abaal, all that awal.	٨			C	adam, Indiantana (2 an manna na minad)
-	•	one require	d; check all that apply		(DO) (ndary Indicators (2 or more required)
· · · · · · · · · · · · · · · · · · ·	Water (A1) ter Table (A2)		Water-Stai	ned Leav I, 2, 4A, a		хсері	V\	/ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Saturatio	, ,		Salt Crust		anu 46)		D	rainage Patterns (B10)
· · · · · · · · · · · · · · · · · · ·	arks (B1)		Aquatic Inv	` ′	s (B13)			ry-Season Water Table (C2)
	t Deposits (B2)		Hydrogen					aturation Visible on Aerial Imagery (C9)
	oosits (B3)		Oxidized R			Livina Roo		eeomorphic Position (D2)
	t or Crust (B4)		Presence of		_	-	` / —	hallow Aquitard (D3)
	osits (B5)		Recent Iro		`	,		AC-Neutral Test (D5)
	Soil Cracks (B6)		Stunted or					aised Ant Mounds (D6) (LRR A)
Inundatio	on Visible on Aerial	Imagery (B	7) Other (Exp	lain in Re	emarks)		F	rost-Heave Hummocks (D7)
Sparsely	Vegetated Concav	e Surface (B8)					
Field Observ	/ations:							
Surface Water	er Present?	Yes	No <u>√</u> Depth (inc	:hes):				
Water Table	Present?	Yes	No <u>✓</u> Depth (inc	:hes):				
Saturation Pr		Yes	No <u>√</u> Depth (inc	:hes):		Wetla	and Hydrolog	y Present? Yes X No No
(includes cap	oillary fringe) Corded Data (strean	n dalide mo	onitoring well, aerial p	hotos nr	evious ins	nections) i	if available:	
Peroning IVE	ondea Data (Stiedi)	gaage, m	Zimoning won, acrial p	οιοσ, μι	C 11003 1115	poolioi is <i>)</i> , i	. avallable.	
Remarks:								
Nomains.								

Project/Site: Brookman/Sherwood		City/Cou	ınty: Sherwoo	bc	Sampling Date:	12/17/2019
Applicant/Owner: Riverside Homes		State: OR				
		nge: township 3 south,				
Landform (hillslope, terrace, etc.): riparian, floodplain						
Subregion (LRR): A-Northwest Forests and Coa						
Soil Map Unit Name: Woodburn Silt Loam, 3 to 7%						
Are climatic / hydrologic conditions on the site typical for					·	
						Y N-
Are Vegetation, Soil, or Hydrology						<u> </u>
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site ma				eeded, explain any answe		eatures. etc.
Hydrophytic Vegetation Present? Yes			<u> </u>	·	· •	
Hydric Soil Present? Yes		l l	s the Sampled			
Wetland Hydrology Present? Yes		W	vithin a Wetlar	ıd? Yes	No <u>×</u>	_
Remarks: Precipitation for the water year to date is 3	6%					
VEGETATION – Use scientific names of pla	ants.					
Tree Stratum (Plot size: 30' diameter)	Absolute % Cover		ant Indicator	Dominance Test work		
Pseudotsuga menziesii			FACU	Number of Dominant S That Are OBL, FACW,	pecies or FAC: 3	(A)
2. Alnus rubra			FAC			(/ \/
3.				Total Number of Domin Species Across All Stra		(B)
4.				, ·		(2)
001.1:	45	= Total	Cover	Percent of Dominant Specification That Are OBL, FACW,		% (A/B)
Sapling/Shrub Stratum (Plot size: 30' diameter		_		Prevalence Index wor		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1. Cornus sericea	50	<u> </u>	FACW	Total % Cover of:		ly by:
2. Corylus cornuta		Y	FACU	OBL species		
Oemleria cerasiformis Acer circinatum	<u>10</u> 10		<u>FACU</u> FAC	FACW species		
				FAC species	x 3 =	
5	90	= Total	Cover	FACU species	x 4 =	
Herb Stratum (Plot size: 5' diameter)		_ = 10(a)	Cover	UPL species	x 5 =	
1. Polystichum munitum	40	Y	FACU	Column Totals:	(A)	(B)
2. Carex leptopoda	10	<u>Y</u>	FAC	Prevalence Index	: = B/A =	
3				Hydrophytic Vegetation		
4				1 - Rapid Test for I	-lydrophytic Vege	tation
5				2 - Dominance Tes	st is >50%	
6				3 - Prevalence Inde	ex is ≤3.0 ¹	
7				4 - Morphological A		
8				data in Remarks	s or on a separate	sneet)
9				9 - Wetland Non-Vi		¹ (Evolain)
10.				¹ Indicators of hydric soi		
11		= Total	Cover	be present, unless distu		
Woody Vine Stratum (Plot size:)		TOLAI	Covei			
1				Hydrophytic		
2				Vegetation		~
		= Total		Present? Ye	s No_	<u>^</u>
% Bare Ground in Herb Stratum 10 Remarks:				<u> </u>		
ixemains.						

		•	needed to docum			or commi	the absence	of indicators.)
Depth (inches)	Color (moist)	%	Color (moist)	<u>k Features</u> %	Type ¹	Loc ²	Texture	Remarks
0-7"	10 YR 2/2	100					silt loam	
7-10"	10 YR 2/2	90	7.5 YR 4/3	10	С	М	silt loam	
10-20"	10 YR 3/4	100					silt loam	
		•	=Reduced Matrix, CS			d Sand Gra		ation: PL=Pore Lining, M=Matrix.
-		licable to all	LRRs, unless other		ed.)			rs for Problematic Hydric Soils ³ :
Histosol			Sandy Redox (S					Muck (A10)
Histic Ep	ipedon (A2)		Stripped Matrix Loamy Mucky M	. ,	1) (evcent	MI DA 1)		Parent Material (TF2) Shallow Dark Surface (TF12)
	n Sulfide (A4)		Loamy Gleyed N			WILKA I)		er (Explain in Remarks)
	Below Dark Surf	ace (A11)	Depleted Matrix		,		0.110	(Explain in Remarks)
	rk Surface (A12)	(,	Redox Dark Sur				³ Indicator	rs of hydrophytic vegetation and
Sandy M	ucky Mineral (S1))	Depleted Dark S	Surface (F	7)		wetlar	nd hydrology must be present,
	leyed Matrix (S4)		Redox Depressi	ons (F8)			unless	s disturbed or problematic.
Restrictive L	.ayer (if present)	:						
Type:								
Depth (inc	hes):						Hydric Soil	Present? Yes No <u>×</u>
Remarks:								
HYDROLO	GY							
	Irology Indicator	s:						
_			d; check all that apply	()			Secon	dary Indicators (2 or more required)
	Water (A1)		Water-Stai		es (B9) (e :	xcent		ater-Stained Leaves (B9) (MLRA 1, 2,
	ter Table (A2)			I, 2, 4A, a		коорт		4A, and 4B)
Saturatio			Salt Crust		,		Dr	rainage Patterns (B10)
	arks (B1)		Aquatic Inv	` '	s (B13)			ry-Season Water Table (C2)
	t Deposits (B2)		Hydrogen \$					aturation Visible on Aerial Imagery (C9)
	osits (B3)		Oxidized R			Living Roof		eomorphic Position (D2)
	t or Crust (B4)		Presence of	of Reduce	d Iron (C4	·)	Sh	nallow Aquitard (D3)
Iron Dep	osits (B5)		Recent Iron	n Reduction	on in Tilled	d Soils (C6) FA	AC-Neutral Test (D5)
Surface S	Soil Cracks (B6)		Stunted or	Stressed	Plants (D	1) (LRR A)	Ra	aised Ant Mounds (D6) (LRR A)
Inundatio	on Visible on Aeria	al Imagery (E	37) Other (Exp	lain in Re	marks)		Fr	ost-Heave Hummocks (D7)
Sparsely	Vegetated Conca	ave Surface ((B8)					
Field Observ	ations:							
Surface Water	er Present?	Yes	No <u>✓</u> Depth (inc	:hes):		_		
Water Table	Present?	Yes	No <u>✓</u> Depth (inc	:hes):				
Saturation Pr		Yes	No <u>✓</u> Depth (inc	:hes):		Wetla	and Hydrology	Present? Yes No X
(includes cap	illary fringe) orded Data (strea	m dalide m	onitoring well, aerial p	hotos nr	evious ins	nections) i	f available:	
DC3CIDC IXCC	oraca Data (Stree	iiii gaage, iii	ormorning wen, aeriai p	niotos, pri	CVIOUS IIIS	pections), i	ii available.	
Remarks:								
Normanio.								

Project/Site: Brookman/Sherwood		City/Co	ounty:	Sherwoo	od	Sampling	g Date: 12/17/	2019
Applicant/Owner: Riverside Homes					State: OR			
	Section, Township, Range: township 3 south, range 1 west, section 6						6	
Landform (hillslope, terrace, etc.): riparian								
Subregion (LRR): A-Northwest Forests and Coasts								
Soil Map Unit Name: Wapato Silty Clay Loam, map unit								
Are climatic / hydrologic conditions on the site typical for this t								
Are Vegetation, Soil, or Hydrology sig	-				Normal Circumstances"			0
Are Vegetation, Soil, or Hydrology nat								
SUMMARY OF FINDINGS - Attach site map sl	nowing	sam	pling	g point lo	ocations, transects	, impor	tant feature	s, etc.
Hydrophytic Vegetation Present? Yes X No				-	·			
Hydric Soil Present? Yes No				e Sampled				
Wetland Hydrology Present? Yes No	×		withi	n a Wetlan	id? Yes	No	<u> </u>	
Remarks: Precipitation for the water year to date is 36%.		•						
VEGETATION – Use scientific names of plants								
·	Absolute	Dom	inant	Indicator	Dominance Test work	rehoot:		
				Status	Number of Dominant S			
1. Corylus cornuta	25	Y		FACU	That Are OBL, FACW,		5	(A)
2. Acer circinatum	25	Y		FAC	Total Number of Domir	nant		
3. Fraxinus latifolia	15	Y		FACW	Species Across All Stra		6	(B)
4	05				Percent of Dominant S	pecies		
Sapling/Shrub Stratum (Plot size: 30' diameter	65	_ = Tota	al Co	ver	That Are OBL, FACW,		83	(A/B)
1. Rubus armeniacus	20	Υ	,	FAC	Prevalence Index wor			
2. Acer circinatum	15	Y	,	FAC	Total % Cover of:	_	Multiply by:	_
3. Rosa pisocarpa	5			FAC			1 = 80	_
4. Ilex aquifolium	trace			FACU	.,	_	2 = <u>60</u> 3 = 195	_
5					FACU species 6	^`		_
51 diameter	40	_ = Tota	al Cov	ver		^	4 = <u>140</u> 5 =	_
Herb Stratum (Plot size: 5' diameter) 1 Carex obnupta	80	Y		OBL	Column Totals: 19			(B)
2. Polystichum munitum	10			FACU		` /		_ (ט)
3. Ranunculus repens	trace			FAC	Prevalence Index			_
· · · · · · · · · · · · · · · · · · ·		-			Hydrophytic Vegetation			
4. 5.					1 - Rapid Test for I ✓ 2 - Dominance Tes		-	
6					✓ 2 - Dominance Tes ✓ 3 - Prevalence Ind			
7					4 - Morphological			nortina
8.					data in Remark			
9.					5 - Wetland Non-V	ascular Pl	ants ¹	
10					Problematic Hydro	phytic Veç	getation¹ (Explai	in)
11					¹ Indicators of hydric so			nust
_		_= Tota	al Cov	er	be present, unless dist	urbed or p	roblematic.	
Woody Vine Stratum (Plot size:)								
1					Hydrophytic Vegetation			
2						s_X	No	
% Bare Ground in Herb Stratum		_= 10(8	ai COV	CI				
Remarks:						-		

Profile Desc	ription: (Describ	e to the dept	h needed to docu			or confirm	the absence	of indicators.)
Depth	Matrix Color (moist)	<u></u> %	Redo Color (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks
(inches) 0-16"	10 YR 3/3		10 YR 3/6	1	C	M	silt loam clay	Remarks
	10 11(3/3		10 110 3/0	'			3iit ioaiii ciay	
	-	 -					-	
¹ Type: C=Co	ncentration, D=De	epletion, RM=	Reduced Matrix, C	S=Covered	or Coate	d Sand Gra	ains. ² Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Appl	icable to all L	RRs, unless othe	rwise note	ed.)		Indicato	rs for Problematic Hydric Soils ³ :
Histosol	` '	-	Sandy Redox (S5)			2 cm	n Muck (A10)
	ipedon (A2)	-	Stripped Matrix					Parent Material (TF2)
Black His		-	Loamy Mucky I			MLRA 1)		Shallow Dark Surface (TF12)
	n Sulfide (A4)	-	Loamy Gleyed)		Othe	er (Explain in Remarks)
	Below Dark Surfa	ace (A11) _	Depleted Matri				3Indicate	ro of hydrophytic vegetation and
	rk Surface (A12) ucky Mineral (S1)	-	Redox Dark Su Depleted Dark	` ,	7)			rs of hydrophytic vegetation and nd hydrology must be present,
	leyed Matrix (S4)	-	Redox Depress		')			s disturbed or problematic.
	ayer (if present):	-	Nodox Boproot) (i o)				e distance of problematic.
Type:								
Depth (inc							Hydric Soil	Present? Yes No X
Remarks:	1100).						yao oo	. 1000iii. 100 <u> </u>
Remarks.								
HYDROLOG	GY							
Wetland Hyd	rology Indicators	s:						
Primary Indic	ators (minimum of	one required	; check all that app	ly)			Secon	ndary Indicators (2 or more required)
Surface \	Water (A1)		Water-Sta	ined Leave	es (B9) (e x	cept	W	ater-Stained Leaves (B9) (MLRA 1, 2,
·	ter Table (A2)			1, 2, 4A, a		•		4A, and 4B)
Saturatio			Salt Crust	(B11)	,		D	rainage Patterns (B10)
Water Ma	arks (B1)		Aquatic In	vertebrates	s (B13)			ry-Season Water Table (C2)
	t Deposits (B2)		Hydrogen				Sa	aturation Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Oxidized I	Rhizospher	es along l	_iving Roo	ts (C3) G	eomorphic Position (D2)
Algal Ma	t or Crust (B4)		Presence	of Reduce	d Iron (C4)	SI	hallow Aquitard (D3)
Iron Dep	osits (B5)		Recent Iro	n Reductio	n in Tilled	Soils (C6) F/	AC-Neutral Test (D5)
Surface S	Soil Cracks (B6)		Stunted o	r Stressed	Plants (D	1) (LRR A)	R	aised Ant Mounds (D6) (LRR A)
Inundatio	n Visible on Aeria	I Imagery (B7) Other (Ex	plain in Rer	marks)		Fr	rost-Heave Hummocks (D7)
Sparsely	Vegetated Conca	ive Surface (B	8)					
Field Observ	ations:							
Surface Water	r Present?	Yes N	lo <u>√</u> Depth (in	ches):		_		
Water Table I	Present?	Yes N	lo 🗸 Depth (in	ches):		_		
Saturation Pr	esent?		lo <u>√</u> Depth (in				and Hydrology	/ Present? Yes No X
(includes cap								
Describe Rec	orded Data (strea	m gauge, moi	nitoring well, aerial	photos, pre	evious insp	pections), i	ıt available:	
Remarks:								

Project/Site: Brookman/Sherwood		City/County	: Sherwo	od	Sampling Date: 12/18/	2019
Applicant/Owner: Riverside Homes		, ,			Sampling Point: DP-5	
		Section, To	wnship, Ra		range 1 west, section	6
Landform (hillslope, terrace, etc.): riparian, floodplain						
Subregion (LRR): A-Northwest Forests and Co	asts_ _{Lat:}			_ Long:	Datum: n/a	
Soil Map Unit Name: Wapato Silty Clay Loam, ma						
Are climatic / hydrologic conditions on the site typical fo	r this time of ye	ar? Yes	No _	X (If no, explain in R	lemarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are '	'Normal Circumstances" p	oresent? Yes X No	o
Are Vegetation, Soil, or Hydrology	naturally pro	blematic?	(If ne	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site m	ap showing	samplin	g point l	ocations, transects	, important feature:	s, etc.
Hydrophytic Vegetation Present? Yes X	No					
Hydric Soil Present? Yes X			e Sampled in a Wetlar		No	
Wetland Hydrology Present? Yes X		With	iii a vvetiai	iu: les_ <u>~</u>		
Remarks: Precipitation for the water year to date is	36%.					
VEGETATION – Use scientific names of p	lants.					
T OL L (DL L : 20) diameter	Absolute			Dominance Test work	sheet:	
<u>Tree Stratum</u> (Plot size: <u>30' diameter</u>) 1. Fraxinus latifolia		Species?		Number of Dominant S That Are OBL, FACW,		(\(\)
Fraxinus latifolia 2.					011710.	(A)
3.				Total Number of Domin Species Across All Stra		(B)
4.		-		, ·		()
30' diameter	80	_ = Total Co	ver	Percent of Dominant Sport That Are OBL, FACW,		(A/B)
Sapling/Shrub Stratum (Plot size: 30' diameter) 1. Oemleria cerasiformis	30	Υ	FACU	Prevalence Index wor	ksheet:	
Symphoricarpos albus	20	Y	FACU	Total % Cover of:		_
Ribes divaricatum	20	Y	FAC	OBL species10	^'	_
4.				FACW species 20		-
5				FAC species 20	×3 =	-
Herb Stratum (Plot size: 5' diameter)	70	_ = Total Co	ver	UPL species 0	^	_
1. Carex obnupta	100	Y	OBL	Column Totals: 310		(B)
2.				Prevalence Index	- B/A - 2.45	
3.				Hydrophytic Vegetation		_
4				1 - Rapid Test for I		
5				2 - Dominance Tes		
6				✓ 3 - Prevalence Inde	ex is ≤3.0 ¹	
7					Adaptations ¹ (Provide sup s or on a separate sheet)	
8 9				5 - Wetland Non-V		
10					phytic Vegetation ¹ (Explai	in)
11.		= Total Cov		¹ Indicators of hydric soil be present, unless disti	il and wetland hydrology nurbed or problematic.	nust
Woody Vine Stratum (Plot size:)	_	_				
1. Rubus ursinus	40	<u>Y</u>	FACU	Hydrophytic		
2. Rubus laciniatus	<u>20</u> 60	<u>Y</u>	FACU	Vegetation Ye Ye	s_X No	
% Bare Ground in Herb Stratum		_= Total Cov	/er			
Remarks: The plant community is marginal with a r						

proximity to Cedar Creek it is best professional judgement that this data plot meets the hydrophitic vegetation criteria.

Profile Desc	ription: (Descri	oe to the dept	h needed to docu	ment the i	indicator	or confirm	the absence o	of indicators.)
Depth	Matrix			ox Feature				
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-12"	10 YR 3/3	100					silt loam	
12-22"	10 YR 3/2	100					silt loam	
				_				
1Typo: C=C	ncontration D=C	lonlotion PM-	Reduced Matrix, C	S=Covered	d or Coato	d Sand Gr	raine ² Loca	ation: PL=Pore Lining, M=Matrix.
			LRRs, unless oth			u Sanu Oi		s for Problematic Hydric Soils ³ :
Histosol			Sandy Redox		·,			Muck (A10)
	oipedon (A2)	•	Stripped Matri					Parent Material (TF2)
Black Hi		•	Loamy Mucky	. ,	1) (except	MLRA 1)		Shallow Dark Surface (TF12)
Hydroge	n Sulfide (A4)		Loamy Gleyed					(Explain in Remarks)
Depleted	d Below Dark Surf	ace (A11)	Depleted Matr	ix (F3)				
	ark Surface (A12)	-	Redox Dark S	. ,				s of hydrophytic vegetation and
-	lucky Mineral (S1		Depleted Dark	•	- 7)			d hydrology must be present,
	Bleyed Matrix (S4)		Redox Depres	sions (F8)			unless	disturbed or problematic.
	_ayer (if present)	:						
Type:								
Depth (inc							-	Present? Yes X No No
								iven the size of the hydrophitic
			ithe location with ata plot is located				ain and proximi	ty to the Cedar Creek it is best
Pit	orocoloriai jaagoi	none that is de	ata piot io iocatoa	within a w	oliana ar	Ju.		
HYDROLO	GY							
	drology Indicator	re:						
_			, about all that any	ds.A			Cocons	dan Indicators (2 or more required)
	-	or one required	; check all that app	•	(DO) (dary Indicators (2 or more required)
_	Water (A1)			ained Leav		xcept		ater-Stained Leaves (B9) (MLRA 1, 2,
	iter Table (A2)			1, 2, 4A, a	and 4B)			4A, and 4B)
Saturatio	` '		Salt Crus	` ,	- (D40)		_	ainage Patterns (B10)
	arks (B1)			nvertebrate			-	y-Season Water Table (C2)
	nt Deposits (B2)			n Sulfide O		Listan Dan		turation Visible on Aerial Imagery (C9)
	oosits (B3)			Rhizosphe	_	-		comorphic Position (D2)
	at or Crust (B4)			of Reduce				allow Aquitard (D3)
	osits (B5)			on Reducti		,	-	C-Neutral Test (D5)
	Soil Cracks (B6)	-1 l (D7		or Stressed		1) (LRR A)		ised Ant Mounds (D6) (LRR A)
	on Visible on Aeri			cpiain in Re	emarks)		Fro	ost-Heave Hummocks (D7)
	Vegetated Conc	ave Surface (E	38)					
Field Obser								
Surface Water			lo <u>√</u> Depth (i					
Water Table			No <u>√</u> Depth (i					
Saturation P		Yes N	lo <u>√</u> Depth (i	nches):		Wetla	and Hydrology	Present? Yes X No No
(includes cap Describe Red		am gauge mo	nitoring well, aeria	photos nr	evious ins	pections)	if available:	
	30.404 24.4 (00)	an gaage, me		ро.со, р.	01.0000	poot.oo,,		
Domarke: D	ata plat ia lagata	d within the C	adar Craak floods	lain within	a abligat	a plant as	mmunity At the	time of the cite investigation the
	ata piot is locate ecipitation levels			nain Within	i a obligat	e piant co	minumity. At the	e time of the site investigation the
	solphadion lovolo	Word Bolow II	oma.					

Project/Site: Brookman/Sherwood		City/Count	12/18/2019					
Applicant/Owner: Riverside Homes		State: OR						
• •				nge: township 3 south,				
		Local relief (concave, convex, none): Convex Slope (%): 4						
Subregion (LRR): A-Northwest Forests and Coasts								
Soil Map Unit Name: _ Wapato Silty Clay Loam, map un								
Are climatic / hydrologic conditions on the site typical for this					·			
	•				,	V N=		
Are Vegetation, Soil, or Hydrologys						<u> </u>		
Are Vegetation, Soil, or Hydrology n				eeded, explain any answe		-4		
SUMMARY OF FINDINGS – Attach site map		sampiir	ng point io		, important re	atures, etc.		
Hydrophytic Vegetation Present? Yes X N Hydric Soil Present? Yes N		ls t	he Sampled	Area				
Wetland Hydrology Present? Yes N		witl	hin a Wetlar	nd? Yes	No <u>×</u>	_		
Remarks: Precipitation for the water year to date is 36%								
Precipitation for the water year to date is 30%	0.							
VEGETATION – Use scientific names of plan	ts.							
T OLI (DLI) 201 diameter	Absolute		t Indicator	Dominance Test work	sheet:			
Tree Stratum (Plot size: 30' diameter) 1. Fraxinus latifolia	% Cover		FACW	Number of Dominant S		(4)		
				That Are OBL, FACW,	orfac:	(A)		
2				Total Number of Domin Species Across All Stra		(B)		
3				Species Across Air Stra	.ta	(B)		
	75	= Total Co	over	Percent of Dominant Sp That Are OBL, FACW,		(A/B)		
Sapling/Shrub Stratum (Plot size: 30' diameter		=		Prevalence Index wor	O. 1710.	(A/B)		
Oemleria cerasiformis	60	<u>Y</u>	FACU	Total % Cover of:		v bv.		
2. Acer circinatum	20	Y	FAC	OBL species		-		
3. Symphoricarpos albus	10		FACU	FACW species				
4		-		FAC species				
5	90			FACU species				
Herb Stratum (Plot size: 5' diameter)	90	= Total C	over	UPL species				
1. Tolmiea menziesii	40	Υ	FAC	Column Totals:	(A)	(B)		
2. Ranunculus repens	30	Υ	FAC	Prevalence Index	= B/A =			
3. Glechoma hederacea	10		FACU	Hydrophytic Vegetation				
4. Galium aparine	trace		FACU	1 - Rapid Test for I	-lydrophytic Veget	ation		
5				✓ 2 - Dominance Tes	it is >50%			
6				3 - Prevalence Inde	ex is ≤3.0 ¹			
7				4 - Morphological A				
8					s or on a separate	sheet)		
9				5 - Wetland Non-Va		(Evaloin)		
10				Indicators of hydric soi				
11		= Total Co		be present, unless distu				
Woody Vine Stratum (Plot size:)		_= Total Co	over					
1				Hydrophytic				
2.				Vegetation	·			
		= Total Co		Present? Ye	s_X No			
% Bare Ground in Herb Stratum 20 Remarks:								
remars.								

			pth needed to dod			or confirm	the absence o	f indicators.)			
Depth (inches)	Color (moist)	%	Color (moist)	dox Feature %	S Type ¹	Loc ²	Texture	Remarks	,		
0-16"	10 YR 3/2	<u>%</u> 100	Color (moist)		i ype	LUC	silt clay loam	remarks			
16-20"	10 YR 3/2	90	7.5 YR 4/4	10	C	M	silt clay loam				
			·								
					·						
			· -		·						
			· -								
			M=Reduced Matrix,			ed Sand Gr		tion: PL=Pore Lining,			
Hydric Soil I	ndicators: (App	licable to a	II LRRs, unless otl	nerwise not	ed.)		Indicators	for Problematic Hyd	dric Soils³:		
Histosol			Sandy Redox					Muck (A10)			
	ipedon (A2)		Stripped Mat					arent Material (TF2)			
Black His			Loamy Muck	-		t MLRA 1)		Shallow Dark Surface	(TF12)		
	n Sulfide (A4)	(A.4.4)	Loamy Gleye		2)		Other	(Explain in Remarks)			
	l Below Dark Surl rk Surface (A12)	race (ATT)	Depleted Ma Redox Dark	. ,			3Indicators	of hydrophytic vegeta	ation and		
	ucky Mineral (S1)	Depleted Dai	. ,				hydrology must be p			
	leyed Matrix (S4)	,	Redox Depre		.,			disturbed or problema			
-	ayer (if present)										
Type:											
Depth (inc	thes):						Hydric Soil P	resent? Yes	No×		
Remarks:	,						1 -				
HYDROLO	GY										
Wetland Hyd	Irology Indicato	rs:									
Primary Indic	ators (minimum o	of one require	ed; check all that ap	oply)			<u>Second</u>	ary Indicators (2 or mo	ore required)		
Surface	Water (A1)		Water-S	Stained Leav	es (B9) (e	xcept	Wa	ter-Stained Leaves (B	9) (MLRA 1, 2 ,		
High Wa	ter Table (A2)		MLR	A 1, 2, 4A, a	and 4B)		4	4A, and 4B)			
Saturation	on (A3)		Salt Cru	ıst (B11)			Drainage Patterns (B10)				
Water M	arks (B1)		Aquatic	Invertebrate	es (B13)		Dry-Season Water Table (C2)				
Sedimen	t Deposits (B2)		Hydroge	en Sulfide O	dor (C1)		Sat	uration Visible on Aeri	ial Imagery (C9)		
Drift Dep	osits (B3)		Oxidize	d Rhizosphe	res along	Living Roo	ts (C3) Geo	omorphic Position (D2	2)		
Algal Ma	t or Crust (B4)		Present	ce of Reduce	ed Iron (C4	4)	Sha	allow Aquitard (D3)			
Iron Dep	osits (B5)		Recent	Iron Reducti	on in Tille	d Soils (C6	FA(C-Neutral Test (D5)			
Surface	Soil Cracks (B6)		Stunted	or Stressed	Plants (D	1) (LRR A)) Rai	sed Ant Mounds (D6)	(LRR A)		
Inundation	on Visible on Aeri	al Imagery (I	B7) Other (E	Explain in Re	emarks)		Fro	st-Heave Hummocks	(D7)		
Sparsely	Vegetated Conc	ave Surface	(B8)								
Field Observ	/ations:										
Surface Water	er Present?	Yes	No <u>√</u> Depth	(inches):							
Water Table	Present?	Yes	No <u>✓</u> Depth	(inches):							
Saturation Pr	esent?	Yes	No <u>√</u> Depth	(inches):		Wetla	and Hydrology I	Present? Yes	No X		
(includes cap											
Describe Red	corded Data (stream	am gauge, n	nonitoring well, aeri	aı photos, pr	evious ins	spections),	ıt avaılable:				
Remarks:											

Project/Site: Brookman/Sherwood		Citv/Co	ountv: S	Sherwoo	od	Sampling Date:	12/17/2019
Applicant/Owner: Riverside Homes					State: OR		
					nge: township 3 south,		
Landform (hillslope, terrace, etc.): riparian, floodplain							
Subregion (LRR): A-Northwest Forests and Coas							
Soil Map Unit Name: Wapato Silty Clay Loam, map u							
Are climatic / hydrologic conditions on the site typical for the	his time of ye	ar? Ye	es	No	X (If no, explain in R	emarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturb	ed?	Are "	'Normal Circumstances" p	oresent? Yes	X No
Are Vegetation, Soil, or Hydrology	naturally pro	blemat	tic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	samp	pling _l	point le	ocations, transects	, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes X	No						
Hydric Soil Present? Yes X				Sampled			
Wetland Hydrology Present? Yes X	No		within	a Wetlar	nd? Yes X	No	<u> </u>
Remarks: Precipitation for the water year to date is 36	5%.						
VEGETATION – Use scientific names of pla	nts.						
Tree Charters (Diet size, 30' diameter.)	Absolute		nant In		Dominance Test work	sheet:	
Tree Stratum (Plot size: 30' diameter) 1. Fraxinus latifolia	<u>% Cover</u> 90	Speci Y		ACW	Number of Dominant S		(4)
					That Are OBL, FACW,	DI FAC	(A)
2					Total Number of Domin Species Across All Stra		(B)
4	_				Species Across Air Stra	ı.a <u></u>	(В)
	90	= Tota	al Cover	r	Percent of Dominant Sp That Are OBL, FACW,		% (A/B)
Sapling/Shrub Stratum (Plot size: 30' diameter					Prevalence Index wor	011710.	(A/B)
Oemleria cerasiformis	60	Y	<u>F</u>	ACU	Total % Cover of:		ly by:
2					OBL species		
3					FACW species		
4					FAC species		
5		·			FACU species		
Herb Stratum (Plot size: 5' diameter)		_ = Tota	al Cover	r	UPL species		
1. Carex obnupta	100	Υ		OBL	Column Totals:		
2					Prevalence Index	- D/A -	
3.					Hydrophytic Vegetation		
4.					1 - Rapid Test for H		tation
5					2 - Dominance Tes		
6					3 - Prevalence Inde		
7					4 - Morphological A	Adaptations ¹ (Prov	ide supporting
8						s or on a separate	e sheet)
9					5 - Wetland Non-V		
10					Problematic Hydro		
11					¹ Indicators of hydric soi be present, unless distu		
Woody Vine Stratum (Plot size:)	100	_= Tota	l Cover		process, amos and		
1					Hadaa ahadka		
2					Hydrophytic Vegetation		
						s <u>×</u> No_	
% Bare Ground in Herb Stratum							
Remarks:							

Depth	<u>Matri</u>				ox Features		. ,	- .		_	
(inches)	Color (moist)			Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>		Remarks	
0-17"	7.5 YR 2.5/	<u> </u>						silt loam	_		
17-19"	7.5 YR 2.5	<u>′2 </u>	<u> </u>	5 YR 3/4	10	C	M	silt loam			
								-	_		
								-			
									_		
1Tyraci C=C	oncontration D-I			lugad Matrix C	C=Covered		d Cand C	raina 21	- DI -D	oro Lining M-	Matrix
	oncentration, D=I Indicators: (Ap						u Sanu G		ocation: PL=P		
Histosol		JIIOUDIC II		Sandy Redox (Ju.,			cm Muck (A10)	-	J
	oipedon (A2)			Stripped Matrix	. ,				ed Parent Mate		
	istic (A3)		_	Loamy Mucky		l) (except	MLRA 1)		ery Shallow Da	, ,	12)
	en Sulfide (A4)			Loamy Gleyed			, ,		her (Explain in		/
	d Below Dark Sui	face (A11		Depleted Matri		,			` '	,	
	ark Surface (A12)	•	_	Redox Dark Su				³ Indica	tors of hydroph	ytic vegetation	n and
Sandy N	Mucky Mineral (S	1)		Depleted Dark	Surface (F	7)		wet	land hydrology	must be prese	ent,
	Bleyed Matrix (S4			Redox Depress	sions (F8)			unle	ess disturbed o	r problematic.	
Restrictive	Layer (if present	:):									
Type:											
Depth (in	ches):			_				Hydric Sc	il Present?	Yes <u>X</u>	No
he jud	oils appear to lac rbaceous plant dgement that the	communit	y, the lo	cation of the a	rea within	the flood					
he jud	erbaceous plant dgement that the	communit e data plo	y, the lo	cation of the a	rea within	the flood					
he jud IYDROLO Wetland Hy	erbaceous plant dgement that the	communit e data plot	y, the lo t is locat	cation of the a ed within a we	rea within tland area	the flood		proximity to		it is best profe	essional
HYDROLO Wetland Hy Primary India	erbaceous plant dgement that the GY drology Indicate	communit e data plot	y, the lo t is locat	cation of the a ed within a we eck all that app water-Sta	rea within tland area ly) ained Leave	the floody	olain and	proximity to	Cedar Creek, ondary Indicate Water-Stained	ors (2 or more Leaves (B9) (required)
IYDROLO Wetland Hy Primary India Surface High Wa	GY drology Indicate cators (minimum Water (A1) ater Table (A2)	communit e data plot	y, the lo t is locat	cation of the a ed within a we eck all that app water-Sta	rea within tland area display	the floody	olain and	proximity to	Cedar Creek,	ors (2 or more Leaves (B9) (required)
IYDROLO Wetland Hy Primary India Surface High Wa Saturatia	GY drology Indicate cators (minimum) Water (A1) ater Table (A2) on (A3)	communit e data plot	y, the lo t is locat	cation of the a ed within a we eck all that app Water-Sta MLRA Salt Crust	rea within tland area.	es (B9) (e.	olain and	proximity to	ondary Indicate Water-Stained 4A, and 4B Drainage Patte	ors (2 or more Leaves (B9) (required) MLRA 1, 2,
IYDROLO Wetland Hy Primary India Surface High Wa Saturatia	GY drology Indicate cators (minimum Water (A1) ater Table (A2)	communit e data plot	y, the lo t is locat	cation of the a ed within a we eck all that app Water-Sta MLRA	rea within tland area.	es (B9) (e.	olain and	proximity to	ondary Indicate Water-Stained 4A, and 4B	ors (2 or more Leaves (B9) (required) MLRA 1, 2,
IYDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimei	GY drology Indicate cators (minimum) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)	communit e data plot	y, the lo t is locat	eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen	rea within tland area.	es (B9) (eand 4B) s (B13) dor (C1)	xcept	proximity to	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi	ors (2 or more Leaves (B9) (B) erns (B10) dater Table (C2)	required) MLRA 1, 2,
IYDROLO Wetland Hy Primary India Surface High Wa Saturati Water M Sedimen Drift De	GY drology Indicate cators (minimum) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	communit e data plot	y, the lo t is locat	eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized	rea within tland area. Aly) ained Leave 1, 2, 4A, a t (B11) nvertebrates 2 Sulfide Oc Rhizosphei	es (B9) (e. and 4B) s (B13) dor (C1) res along	xcept Living Roo	Sec	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P	ors (2 or more Leaves (B9) (2) erns (B10) rater Table (C2) ble on Aerial Inosition (D2)	required) MLRA 1, 2,
IYDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimei Drift Dep	GY drology Indicate cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4)	communit e data plot	y, the lo t is locat	eck all that app water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence	ally) ained Leave 1, 2, 4A, a t (B11) nvertebrates Sulfide Oc Rhizospher of Reduce	es (B9) (e and 4B) s (B13) dor (C1) res along d Iron (C4	xcept Living Roo	Sec Sec ots (C3)	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita	ors (2 or more Leaves (B9) (b) erns (B10) dater Table (C2 ble on Aerial II osition (D2) ard (D3)	required) MLRA 1, 2,
IYDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimen Drift Dep Algal Ma	GY drology Indicate cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5)	communit e data plot	y, the lo t is locat	eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ned Leave 1, 2, 4A, a t (B11) hivertebrates Sulfide Oc Rhizospher of Reduce	es (B9) (e. and 4B) s (B13) dor (C1) res along ad Iron (C4 on in Tilled	xcept Living Roo	Sec ots (C3) ots (C3) ots (C3)	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita	ors (2 or more Leaves (B9) (b) erns (B10) dater Table (C2 ble on Aerial II osition (D2) ard (D3) eest (D5)	required) MLRA 1, 2, magery (C9)
IYDROLO Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimel Drift Dep Algal Ma	GY drology Indicated cators (minimum) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6)	ors:	y, the lo t is locat uired; ch	eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ira Stunted o	ly) ained Leave 1, 2, 4A, a 1 (B11) avertebrate 2 Sulfide Oc Rhizospher of Reduce on Reduction	es (B9) (e. and 4B) s (B13) dor (C1) res along ad Iron (C4) on in Tilled	xcept Living Roo	Sec	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more Leaves (B9) (B) erns (B10) dater Table (C2) ble on Aerial II osition (D2) ard (D3) eest (D5) ounds (D6) (LR	required) MLRA 1, 2, magery (C9
Metland Hy Primary India Surface High Wa Saturatia Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundati	GY drology Indicator cators (minimum) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aer	ors: of one requial Imager	y, the lo t is locat uired; ch	eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ly) ained Leave 1, 2, 4A, a 1 (B11) avertebrate 2 Sulfide Oc Rhizospher of Reduce on Reduction	es (B9) (e. and 4B) s (B13) dor (C1) res along ad Iron (C4) on in Tilled	xcept Living Roo	Sec	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita	ors (2 or more Leaves (B9) (B) erns (B10) dater Table (C2) ble on Aerial II osition (D2) ard (D3) eest (D5) ounds (D6) (LR	required) MLRA 1, 2, magery (C9
Metland Hy Primary India Surface High Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely	GY drology Indicator cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aer y Vegetated Cond	ors: of one requial Imager	y, the lo t is locat uired; ch	eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ira Stunted o	ly) ained Leave 1, 2, 4A, a 1 (B11) avertebrate 2 Sulfide Oc Rhizospher of Reduce on Reduction	es (B9) (e. and 4B) s (B13) dor (C1) res along ad Iron (C4) on in Tilled	xcept Living Roo	Sec	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more Leaves (B9) (B) erns (B10) dater Table (C2) ble on Aerial II osition (D2) ard (D3) eest (D5) ounds (D6) (LR	required) MLRA 1, 2, magery (C9
Metland Hy Primary India Surface High Wa Saturatia Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundati	GY drology Indicate cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aery Vegetated Cond	ors: of one required in the content of the content	y, the lot is locat uired; ch	eck all that app eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ira Stunted o Other (Ex	ally) ained Leave 1, 2, 4A, a 1 (B11) avertebrate 1 Sulfide Oc Rhizospher of Reduce on Reduction r Stressed plain in Re	es (B9) (e and 4B) s (B13) dor (C1) res along ad Iron (C4) on in Tilled Plants (D	xcept Living Roo Soils (C6 1) (LRR A	Sec	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more Leaves (B9) (B) erns (B10) dater Table (C2) ble on Aerial II osition (D2) ard (D3) eest (D5) ounds (D6) (LR	required) MLRA 1, 2, magery (C9
Netland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Surface Inundati Sparsely Field Obser	GY drology Indicate cators (minimum Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aery Vegetated Concept at Concept (B4) at or Crust (B4) cosits (B5) at or Crust (B6) cosits (B5) at or Crust (B6) cosits (B5) at or Crust (B6) cosits (B6) co	ors: of one required ave Surfa	y, the lot is locat uired; ch	eck all that app water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Iro Stunted o Other (Ex	ally) ained Leave 1, 2, 4A, a t (B11) avertebrate Sulfide Oc Rhizospher of Reduce on Reduction r Stressed splain in Re	es (B9) (e. Ind 4B) s (B13) dor (C1) res along ed Iron (C4 on in Tilled Plants (D	xcept Living Roo l) d Soils (Co	Sec	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more Leaves (B9) (B) erns (B10) dater Table (C2) ble on Aerial II osition (D2) ard (D3) eest (D5) ounds (D6) (LR	required) MLRA 1, 2, magery (C9
Netland Hy Primary India Surface High Wa Saturatia Water M Sedimel Drift Del Algal Ma Iron Dep Surface Inundati Sparsely	GY drology Indicate cators (minimum Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aery Vegetated Concept at Concept (B4) at or Crust (B4) cosits (B5) at or Crust (B6) cosits (B5) at or Crust (B6) cosits (B5) at or Crust (B6) cosits (B6) co	ial Imager eave Surfa	y (B7) ce (B8) No _ No _	eck all that app water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ir Stunted o Other (Ex	rea within tland area.	es (B9) (e. and 4B) s (B13) dor (C1) res along ed Iron (C4 on in Tilled Plants (D marks)	xcept Living Roo Soils (Co	Sec	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more Leaves (B9) (B) erns (B10) dater Table (C2) ble on Aerial II osition (D2) ard (D3) eest (D5) ounds (D6) (LR	required) MLRA 1, 2, magery (C9
Metland Hy Primary India Surface High Wa Saturatia Water M Sedimen Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Water Water Table Saturation P	GY drology Indicator cators (minimum) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aer y Vegetated Conc vations: er Present? Present?	ial Imager eave Surfa	y (B7) ce (B8) No _ No _	eck all that app water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Iro Stunted o Other (Ex	rea within tland area.	es (B9) (e. and 4B) s (B13) dor (C1) res along ed Iron (C4 on in Tilled Plants (D marks)	xcept Living Roo Soils (Co	ots (C3) \checkmark	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mo	ors (2 or more Leaves (B9) (B) erns (B10) later Table (C2) ble on Aerial In osition (D2) ard (D3) est (D5) bunds (D6) (LR tummocks (D7	required) MLRA 1, 2, magery (C9
Metland Hy Primary India Surface High Wa Saturatia Water M Sedimer Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Water Table Saturation P (includes cap	GY drology Indicated cators (minimum) Water (A1) Ater Table (A2) On (A3) Alarks (B1) Ant Deposits (B2) Oosits (B3) At or Crust (B4) Oosits (B5) Soil Cracks (B6) On Visible on Aer A Vegetated Concentry Vege	ial Imager eave Surfa Yes Yes Yes	y (B7) ce (B8) No _ No _ No _	eck all that app water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ir Stunted o Other (Ex	rea within tland area. v v ained Leave 1, 2, 4A, a t (B11) avertebrate: a Sulfide Oc Rhizospher of Reduction of Reduction stressed plain in Re aches): aches): aches):	es (B9) (e. and 4B) s (B13) dor (C1) res along ed Iron (C4 on in Tilled Plants (D marks)	Living Root A Soils (Control of the Control of the	proximity to Sec J ots (C3) ots (C3) and Hydrolo	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mc Frost-Heave H	ors (2 or more Leaves (B9) (B) erns (B10) later Table (C2) ble on Aerial In osition (D2) ard (D3) est (D5) bunds (D6) (LR tummocks (D7	required) MLRA 1, 2, magery (C9
Metland Hy Primary India Surface High Wa Saturatia Water M Sedimer Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Water Table Saturation P (includes cap	GY drology Indicator cators (minimum) Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aer y Vegetated Conc vations: er Present? Present?	ial Imager eave Surfa Yes Yes Yes	y (B7) ce (B8) No _ No _ No _	eck all that app water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ir Stunted o Other (Ex	rea within tland area. v v ained Leave 1, 2, 4A, a t (B11) avertebrate: a Sulfide Oc Rhizospher of Reduction of Reduction stressed plain in Re aches): aches): aches):	es (B9) (e. and 4B) s (B13) dor (C1) res along ed Iron (C4 on in Tilled Plants (D marks)	Living Root A Soils (Control of the Control of the	proximity to Sec J ots (C3) ots (C3) and Hydrolo	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mc Frost-Heave H	ors (2 or more Leaves (B9) (B) erns (B10) later Table (C2) ble on Aerial In osition (D2) ard (D3) est (D5) bunds (D6) (LR tummocks (D7	required) MLRA 1, 2, magery (C9
Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Der Algal Ma Iron Der Surface Inundati Sparsely Field Obser Surface Water Table Saturation P (includes car Describe Re	GY drology Indicate cators (minimum Water (A1) ater Table (A2) on (A3) aters (B1) on the Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aery Vegetated Conce vations: er Present? Present? Present? politary fringe) corded Data (street	ial Imager cave Surfa Yes Yes Yes eam gauge	y (B7) uired; ch y (B7) ce (B8) No _ No _ e, monitor	eck all that app eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ira Stunted o Other (Ex	rea within tland area. Aly) ained Leave 1, 2, 4A, a t (B11) nvertebrate: 2 Sulfide Oc Rhizospher of Reduce on Reduction r Stressed plain in Re nches): photos, pre	es (B9) (e and 4B) s (B13) dor (C1) res along and Iron (C4) on in Tilled Plants (D marks)	Living Root Soils (Control of the control of the c	ots (C3) and Hydrolo	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mc Frost-Heave H	ors (2 or more Leaves (B9) (b) erns (B10) dater Table (C2 ble on Aerial In osition (D2) ard (D3) eest (D5) ounds (D6) (LR ummocks (D7	required) MLRA 1, 2, magery (C9
Wetland Hy Primary India Surface High Water M Sedimer Drift Der Algal Ma Iron Der Surface Inundati Sparsely Field Obser Surface Water Table Saturation Per (includes car Describe Re	GY drology Indicate cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aer y Vegetated Cond vations: er Present? Present? Present? corded Data (stree ata plot is locate	ial Imager cave Surfa Yes Yes eam gauge	y (B7) uired; ch y (B7) ce (B8) No _ No _ e, monitode	eck all that app eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ira Stunted o Other (Ex	rea within tland area. Aly) ained Leave 1, 2, 4A, a t (B11) nvertebrate: 2 Sulfide Oc Rhizospher of Reduce on Reduction r Stressed plain in Re nches): photos, pre	es (B9) (e and 4B) s (B13) dor (C1) res along and Iron (C4) on in Tilled Plants (D marks)	Living Root Soils (Control of the control of the c	ots (C3) and Hydrolo	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mc Frost-Heave H	ors (2 or more Leaves (B9) (b) erns (B10) dater Table (C2 ble on Aerial In osition (D2) ard (D3) eest (D5) ounds (D6) (LR ummocks (D7	required) MLRA 1, 2, magery (C9
Wetland Hy Primary India Surface High Water M Sedimer Drift Der Algal Ma Iron Der Surface Inundati Sparsely Field Obser Surface Water Table Saturation Per (includes car Describe Re	GY drology Indicate cators (minimum Water (A1) ater Table (A2) on (A3) aters (B1) on the Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aery Vegetated Conce vations: er Present? Present? Present? politary fringe) corded Data (street	ial Imager cave Surfa Yes Yes eam gauge	y (B7) uired; ch y (B7) ce (B8) No _ No _ e, monitode	eck all that app eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ira Stunted o Other (Ex	rea within tland area. Aly) ained Leave 1, 2, 4A, a t (B11) nvertebrate: 2 Sulfide Oc Rhizospher of Reduce on Reduction r Stressed plain in Re nches): photos, pre	es (B9) (e and 4B) s (B13) dor (C1) res along and Iron (C4) on in Tilled Plants (D marks)	Living Root Soils (Control of the control of the c	ots (C3) and Hydrolo	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mc Frost-Heave H	ors (2 or more Leaves (B9) (b) erns (B10) dater Table (C2 ble on Aerial In osition (D2) ard (D3) eest (D5) ounds (D6) (LR ummocks (D7	required) MLRA 1, 2, magery (C9
Wetland Hy Primary India Surface High Water M Sedimer Drift Der Algal Ma Iron Der Surface Inundati Sparsely Field Obser Surface Water Table Saturation Per (includes car Describe Re	GY drology Indicate cators (minimum Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aer y Vegetated Cond vations: er Present? Present? Present? corded Data (stree ata plot is locate	ial Imager cave Surfa Yes Yes eam gauge	y (B7) uired; ch y (B7) ce (B8) No _ No _ e, monitode	eck all that app eck all that app Water-Sta MLRA Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Ira Stunted o Other (Ex	rea within tland area. Aly) ained Leave 1, 2, 4A, a t (B11) nvertebrate: 2 Sulfide Oc Rhizospher of Reduce on Reduction r Stressed plain in Re nches): photos, pre	es (B9) (e and 4B) s (B13) dor (C1) res along and Iron (C4) on in Tilled Plants (D marks)	Living Root Soils (Control of the control of the c	ots (C3) and Hydrolo	ondary Indicate Water-Stained 4A, and 4B Drainage Patte Dry-Season W Saturation Visi Geomorphic P Shallow Aquita FAC-Neutral T Raised Ant Mc Frost-Heave H	ors (2 or more Leaves (B9) (b) erns (B10) dater Table (C2 ble on Aerial In osition (D2) ard (D3) eest (D5) ounds (D6) (LR ummocks (D7	required) MLRA 1, 2, magery (C9

Project/Site: Brookman/Sherwood		City/County	: Sherwoo	od	_ Sampling [Date: 12/17	/2019
Applicant/Owner: Riverside Homes							
Investigator(s): K. Reavis, K. Sanderford		Section, To	wnship, Ra				
Landform (hillslope, terrace, etc.): riparian, floodplain		Local relief	f (concave,	convex, none): none		Slope (%)	: 4%
Subregion (LRR): A-Northwest Forests and Coasts	S_ Lat:			_ Long:		Datum: n/a	a
Soil Map Unit Name: Wapato Silty Clay Loam, map un							
Are climatic / hydrologic conditions on the site typical for this	s time of ye	ear? Yes	No	X (If no, explain in F	Remarks.)		
Are Vegetation, Soil, or Hydrologys	ignificantly	disturbed?	Are '	"Normal Circumstances"	present? Y	es X N	lo
Are Vegetation, Soil, or Hydrology n	aturally pro	oblematic?	(If ne	eeded, explain any answe	ers in Remar	ks.)	
SUMMARY OF FINDINGS - Attach site map	showing	samplin	g point l	ocations, transects	s, importa	ınt feature	s, etc.
Hydrophytic Vegetation Present? Yes X N	0			<u> </u>	<u> </u>		
Hydric Soil Present? Yes No	o <u> </u>		ne Sampled				
Wetland Hydrology Present? Yes N		with	in a Wetlar	nd? Yes	No _	<u>×</u>	
Remarks: Precipitation for the water year to date is 36%	, 0.						
VEGETATION – Use scientific names of plan	te .						
VEGETATION - Use scientific flames of plan	Absolute	Dominant	Indicator	Dominance Test worl	ksheet:		
Tree Stratum (Plot size: 30' diameter)		Species?		Number of Dominant S			
1. Fraxinus latifolia	95	Y	FACW	That Are OBL, FACW,		4	(A)
2				Total Number of Domin		_	
3				Species Across All Stra	ata: _	5	(B)
4		= Total Co		Percent of Dominant S		90	(4.5)
Sapling/Shrub Stratum (Plot size: 30' diameter		_ = 10(a) CC	vei	That Are OBL, FACW,	_	80	(A/B)
Oemleria cerasiformis	40	Y	FACU	Prevalence Index wor Total % Cover of:		Multiply by	
2. Acer circinatum	30	Y	FAC		_	Multiply by: = 0	
3. Malus fusca	10		FACW		05 x2=		_
4. Symphoricarpos albus	10	-	FACU		0 x3=	400	_
5				· ·	i0 x4=		_
Herb Stratum (Plot size: 5' diameter)	90	_ = Total Co	over	UPL species) x5=	_ 0	
1. Tolmiea menziesii	20	Υ	FAC	Column Totals: 21	5 (A)	590	(B)
2. Ranunculus repens	10	Υ	FAC	Prevalence Index	ν = R/Δ =	2.74	
3.				Hydrophytic Vegetati			
4				1 - Rapid Test for			
5				✓ 2 - Dominance Te		· ·	
6				3 - Prevalence Ind	lex is ≤3.0 ¹		
7				4 - Morphological			
8				data in Remark		. ,)
9				5 - Wetland Non-V			
10				Problematic Hydro			
11				¹ Indicators of hydric so be present, unless dist			must
Woody Vine Stratum (Plot size:)	30	_= Total Co	ver	·			
1				Hydrophytic			
2.				Vegetation	.,		
		_= Total Co		Present? Ye	es <u>× </u>	No	
% Bare Ground in Herb Stratum 70							
Remarks:							

	ription: (Descri					or confirm	the absence	of indicators.)	
Depth (inches)	Color (moist)	<u>(</u>	Color (mois	Redox Feature t) %	es Type ¹	_Loc ²	Texture	Remarks	
0-16"	10 YR 3/2		Color (IIIols	1) /0	Туре	LOC	silt loam	Remarks	<u>'</u>
16-20"			7.5 VD 4				silt loam	nome elev	
10-20	10 YR 3/2	99	7.5 YR 4/	0 1	C	M	Siit ioaiii	some clay	
			-						
·								-	
			-						
			<u>-</u>						
	ncentration, D=D					ed Sand Gra		cation: PL=Pore Lining,	
Hydric Soil I	ndicators: (App	licable to a	II LRRs, unless	otherwise no	ted.)		Indicato	ors for Problematic Hyd	Iric Soils³:
Histosol			Sandy Re					n Muck (A10)	
	ipedon (A2)		Stripped N					Parent Material (TF2)	
Black His				icky Mineral (F	, , .	t MLRA 1)		y Shallow Dark Surface	(TF12)
	n Sulfide (A4)	. (8.4.4)	-	eyed Matrix (F2	2)		Oth	er (Explain in Remarks)	
	l Below Dark Sur rk Surface (A12)	race (A11)		Matrix (F3) rk Surface (F6	`		3Indicate	ors of hydrophytic vegeta	ation and
	lucky Mineral (S1	\		Dark Surface (F6)	•			and hydrology must be pi	
	leyed Matrix (S4)	,		pressions (F8)				ss disturbed or problema	
	ayer (if present			p. 666.61.6 (1 6)				,	
Type:									
	ches):						Hydric Soil	Present? Yes	No ×
Remarks:							,		
remano.									
HYDROLO	GY								
Wetland Hyd	Irology Indicato	rs:							
Primary Indic	ators (minimum o	of one requir	ed; check all that	apply)			Seco	ndary Indicators (2 or mo	ore required)
Surface \	Water (A1)		Wate	r-Stained Leav	/es (B9) (e	xcept		Vater-Stained Leaves (B	9) (MLRA 1. 2.
	ter Table (A2)			LRA 1, 2, 4A,				4A, and 4B)	-,(, ,
Saturatio	, ,			Crust (B11)	,			Prainage Patterns (B10)	
Water Ma	, ,			tic Invertebrate	es (B13)			ry-Season Water Table	(C2)
· · · · · · · · · · · · · · · · · · ·	t Deposits (B2)			ogen Sulfide O	, ,			Saturation Visible on Aeri	
	osits (B3)		-	-		Livina Roo		Seomorphic Position (D2	
	t or Crust (B4)			ence of Reduc	_	_		Shallow Aquitard (D3)	,
_	osits (B5)			nt Iron Reduct	•	,		AC-Neutral Test (D5)	
	Soil Cracks (B6)			ed or Stressed				Raised Ant Mounds (D6)	(LRR A)
	on Visible on Aeri	al Imagery (r (Explain in Re		, (,		rost-Heave Hummocks	
	Vegetated Conc			` '	,			,	,
Field Observ			(- /						
Surface Water	er Present?	Yes	No <u>✓</u> Dep	th (inches):					
Water Table			No ✓ Dep						
Saturation Pr			No <u>√</u> Dep				nd Hydrolog	y Present? Yes	No. X
(includes cap		163	. No <u>▼</u> Dep			**********************************	and riyurolog	y riesent: Tes	
	corded Data (stre	am gauge, n	nonitoring well, a	erial photos, p	revious ins	pections), i	f available:		
Remarks:									

Project/Site: Brookman/Sherwood		Citv/Co	unty: Sherwoo	od	_ Sampling Date: 12/17/2019		
Applicant/Owner: Riverside Homes		,		State: OR			
		Section			range 1 west, section 6		
Landform (hillslope, terrace, etc.): riparian, floodplain							
Subregion (LRR): A-Northwest Forests and Coa			•	•	· · · ·		
Soil Map Unit Name: Aloha Silt Loam, map unit 1, ra							
Are climatic / hydrologic conditions on the site typical for	-						
Are Vegetation, Soil, or Hydrology							
Are Vegetation, Soil, or Hydrology				eeded, explain any answe			
SUMMARY OF FINDINGS – Attach site ma		samp	oling point l	ocations, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes X		١,	ls the Sampled	Ι Δτεα			
Hydric Soil Present? Yes Wetland Hydrology Present? Yes			within a Wetlar		No <u> </u>		
Remarks: Precipitation for the water year to date is 3	6%.						
VEGETATION – Use scientific names of pla	ants.						
7 0	Absolute		nant Indicator	Dominance Test work	sheet:		
<u>Tree Stratum</u> (Plot size: <u>30' diameter</u>) 1. Fraxinus latifolia	<u>% Cover</u> 50		es? Status	Number of Dominant S			
2. Crataegus douglasii		- <u>Y</u> Y	FACW FAC	That Are OBL, FACW,	or FAC: 4 (A)		
3. Prunus avium	<u></u> 	· — ·	FACU	Total Number of Domin			
1 Turius avium		· ——	<u> 1700</u>	Species Across All Stra	ta: / (B)		
7.	80	= Tota	Il Cover	Percent of Dominant Sp			
Sapling/Shrub Stratum (Plot size: 30' diameter		_ 1010	11 00701	That Are OBL, FACW, or Prevalence Index wor	(.12)		
1. Crataegus douglasii	20	Y	FAC	Total % Cover of:			
2. Symphoricarpos albus	20	Y			x 1 = 0		
3. Acer circinatum	10		FAC	FACW species50			
4. Rosa pisocarpa	10		<u>FAC</u>	FAC species 70			
5. Ribes divaricatum	trace		FAC	FACU species 65			
Herb Stratum (Plot size: 5' diameter)	60	_ = Tota	l Cover	UPL species 0			
1. Carex leptopoda	10	Υ	FAC	Column Totals: 185	5 (A) 570 (B)		
2. Tellima grandiflora	5	Υ	FACU	Prevalence Index	2.00		
3. Galium aparine	trace		FACU	Hydrophytic Vegetation	- D/A -		
4. Polystichum munitum	trace		FACU	1 - Rapid Test for H			
5				✓ 2 - Dominance Tes			
6				3 - Prevalence Inde			
7					Adaptations ¹ (Provide supporting		
8					s or on a separate sheet)		
9				5 - Wetland Non-Va			
10		·		I .	phytic Vegetation ¹ (Explain)		
11				be present, unless distu	I and wetland hydrology must urbed or problematic.		
Woody Vine Stratum (Plot size:)	15	_= Total	Cover	,			
1. Rubus ursinus	30	Υ	FACU	Hydrophytic			
2.				Vegetation			
	30	= Total	Cover	Present? Ye	s_ <u>×</u> No		
% Bare Ground in Herb Stratum 85							
Remarks: Marginal plant community: Prevalence In-	dex is 3.08						

	•	o the dep	th needed to docum			or confirm	tne absence o	Tindicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	K Features	<u>Type</u> 1	Loc ²	Texture	Remarks		
0-7"	7.5 YR 2.5/3	100					silt loam			
7-9"	7.5 YR 2.5/3	98	7.5 YR 3/4	2	С	М	silt loam			
9-14"	10 YR 3/2	100					silt loam			
14-18"	10 YR 3/2	75	7.5 YR 3/4	10	С	М	silt clay loam			
	10 YR 4/2	15								
¹Type: C=Cc	oncentration, D=Depl	etion. RM=	Reduced Matrix. CS	=Covered	d or Coate	d Sand Gr	ains. ² Loca	tion: PL=Pore Lining, M=Matrix.		
	ndicators: (Applica							s for Problematic Hydric Soils ³ :		
Histosol	(A1)		Sandy Redox (S				2 cm	Muck (A10)		
	ipedon (A2)		Stripped Matrix					Parent Material (TF2)		
Black His	` '		Loamy Mucky M			MLRA 1)		Shallow Dark Surface (TF12)		
	n Sulfide (A4)	(044)	Loamy Gleyed N)		Other	(Explain in Remarks)		
	Below Dark Surface rk Surface (A12)	: (ATT)	Depleted Matrix Redox Dark Sur	` '			³ Indicators	s of hydrophytic vegetation and		
	ucky Mineral (S1)		Depleted Dark S		7)			d hydrology must be present,		
-	leyed Matrix (S4)		Redox Depressi		,			disturbed or problematic.		
	ayer (if present):		<u> </u>							
Type:										
Depth (inc	:hes):		<u></u>				Hydric Soil P	Present? Yes No _X		
Remarks:										
HYDROLO										
_	Irology Indicators:		to about all that are t	٨			0	long Indicators (2 or reserve as a visually		
	ators (minimum of or	ne required			oo (DO) (vaart		lary Indicators (2 or more required)		
_	Water (A1)		Water-Stai			xcept		ater-Stained Leaves (B9) (MLRA 1, 2,		
High wa	ter Table (A2)		MLRA 1 Salt Crust (I, 2, 4A , a (B11)	iiiu 4B)			4A, and 4B)		
Saturatio	` '		Salt Crust i	` '	s (R13)		 Drainage Patterns (B10) Dry-Season Water Table (C2)			
	t Deposits (B2)		Hydrogen \$					turation Visible on Aerial Imagery (C9)		
	osits (B3)		Oxidized R			Living Root		omorphic Position (D2)		
	t or Crust (B4)		Presence of	•	•	Ü		allow Aquitard (D3)		
_	osits (B5)		Recent Iron		•	•		C-Neutral Test (D5)		
	Soil Cracks (B6)		Stunted or			•	<i>-</i>	ised Ant Mounds (D6) (LRR A)		
	on Visible on Aerial Ir	magery (B	7) Other (Exp	lain in Re	marks)			st-Heave Hummocks (D7)		
Sparsely	Vegetated Concave	Surface (E	38)							
Field Observ										
Surface Water			No <u>✓</u> Depth (inc							
Water Table			No <u>✓</u> Depth (inc							
Saturation Pr (includes cap		es I	No <u>√</u> Depth (inc	:hes):		_ Wetla	and Hydrology	Present? Yes No X		
	corded Data (stream	gauge, mo	nitoring well, aerial p	hotos, pro	evious ins	pections), i	f available:			
Remarks:										

Project/Site: Brookman/Sherwood		Citv/Co	ountv:	Sherwoo	od	Sampling Date:	12/17/2019
Applicant/Owner: Riverside Homes					State: OR		
					nge: township 3 south,		
Landform (hillslope, terrace, etc.): riparian, floodplain							
Subregion (LRR): A-Northwest Forests and Coas							
Soil Map Unit Name: Verboort silty clay loam, 0 to 39							
•						·	
Are climatic / hydrologic conditions on the site typical for the	-						·
Are Vegetation, Soil, or Hydrology							No
Are Vegetation, Soil, or Hydrology	naturally pro	blemat	tic?	(If ne	eded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	sam	plino	g point lo	ocations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes X							
Hydric Soil Present? Yes X				Sampled		No	
Wetland Hydrology Present? Yes X			WILIII	n a Wetlan	iu? res_^	NO	_
Remarks: Precipitation for the water year to date is 36	%.						
VEGETATION – Use scientific names of pla	nte						
VEGETATION COC SCIENTING HARMES OF PIC	Absolute	Domi	inant	Indicator	Dominance Test work	sheet:	
<u>Tree Stratum</u> (Plot size: <u>30' diameter</u>)	% Cover				Number of Dominant Sp	necies	
Fraxinus latifolia	40	Y		FACW	That Are OBL, FACW, o		(A)
2					Total Number of Domin	ant	
3					Species Across All Stra	ıta: <u>3</u>	(B)
4					Percent of Dominant Sp	pecies	
Sapling/Shrub Stratum (Plot size: 30' diameter	40	_ = Tota	al Cov	/er	That Are OBL, FACW, o	· · · · · · · · · · · · · · · · · · ·	(A/B)
1. Cornus sericea	5	Υ	,	FACW	Prevalence Index work		
2.					Total % Cover of:		ly by:
3.					OBL species		
4.					FACW species		
5					FAC species		
Herb Stratum (Plot size: 5' diameter)	5	_ = Tota	al Cov	/er	UPL species		
1. Carex obnupta	65	Υ		OBL	Column Totals:		
2							
3					Prevalence Index Hydrophytic Vegetation		
4.					1 - Rapid Test for H		tation
5					✓ 2 - Dominance Tes		
6					3 - Prevalence Inde	ex is ≤3.0 ¹	
7					4 - Morphological A		
8						s or on a separate	e sheet)
9					5 - Wetland Non-Va		1.45
10					Problematic Hydrop		` ' '
11					¹ Indicators of hydric soil be present, unless distu		
Woody Vine Stratum (Plot size:)	65	_= Tota	II Cov	er			
1					Hydrophytic		
2					Vegetation		
					Present? Yes	s_ <u>×</u> No	
% Bare Ground in Herb Stratum 35							
Remarks:							

Depth						-			
(inches)	Matrix Color (moist)		Col	or (moist)	x Features %	Type ¹	Loc ²	Texture	Remarks
0-7"	10 YR 2/2					- ,,,,,,,		silt loam	
7-13	10 YR 3/2	93	7.5	5 YR 3/4	7		M	silt clay loam	
13-17"	10 YR 3/1			YR 3/4	15		M	silt clay loam	
10-17	10 110 0/1			7 111 0/ 1			IVI	ont day loan	
					- ——				
¹Type: C=Co	oncentration, D=[Depletion, R	M=Reduc	ed Matrix, CS	S=Covered	or Coate	d Sand Gr	ains. ² Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (App	licable to	all LRRs,	unless other	rwise note	ed.)		Indicato	rs for Problematic Hydric Soils ³ :
Histosol	` '			andy Redox (S					Muck (A10)
	pipedon (A2)			ripped Matrix		1) /	MI DA 4)		Parent Material (TF2)
	stic (A3) en Sulfide (A4)			amy Mucky N amy Gleyed			(MLRA 1)		r Shallow Dark Surface (TF12) er (Explain in Remarks)
	d Below Dark Sur	face (A11)		epleted Matrix)		Othe	er (Explain in Remarks)
	ark Surface (A12)	, ,		edox Dark Su	. ,			³ Indicato	rs of hydrophytic vegetation and
	Mucky Mineral (S1			epleted Dark		7)			nd hydrology must be present,
-	Gleyed Matrix (S4)		Re	edox Depress	ions (F8)			unles	s disturbed or problematic.
	Layer (if present	•							
Depth (inc	ches):							Hydric Soil	Present? Yes <u>X</u> No
Remarks:									
_	drology Indicato								
Wetland Hyd			ired; checl		-				idary Indicators (2 or more required)
Wetland Hyd Primary Indic Surface	drology Indicato cators (minimum o Water (A1)		ired; checl	_ Water-Sta	ined Leave		xcept		ater-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hyd Primary India Surface High Wa	drology Indicato cators (minimum o Water (A1) ater Table (A2)		ired; checl	Water-Stai	ined Leave 1, 2, 4A, a		xcept	W	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hyd Primary India Surface ✓ High Wa ✓ Saturatio	drology Indicato cators (minimum o Water (A1) ater Table (A2) on (A3)		_	Water-Stai	ined Leave 1, 2, 4A, a (B11)	and 4B)	xcept	w	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10)
Wetland Hyd Primary India Surface ✓ High Wa ✓ Saturatia Water M	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1)		_	Water-Star MLRA Salt Crust Aquatic Inv	ined Leave 1, 2, 4A, a (B11) vertebrate	and 4B) s (B13)	xcept	W D	dater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Wetland Hyd Primary India Surface ✓ High Wa ✓ Saturatia Water M Sedimer	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)		_	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc	and 4B) s (B13) dor (C1)		W D S:	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9)
Wetland Hyd Primary India Surface ✓ High Wa ✓ Saturatio Water M Sedimer Drift Dep	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)		_	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe	s (B13) dor (C1) res along	Living Roo	W D S S ts (C3) G	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2)
Wetland Hyd Primary India Surface ✓ High Wa ✓ Saturatio Water M Sedimer Drift Dep Algal Ma	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4)		_	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce	s (B13) dor (C1) res along d Iron (C4	Living Roo 1)	W D S; ts (C3) G S	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3)
Wetland Hyd Primary India Surface ✓ High Wa ✓ Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		- - - - -	Water-Stain MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence G Recent Iro	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce	s (B13) dor (C1) res along d Iron (C4 on in Tille	Living Roo 4) d Soils (C6	W D S: ts (C3) G Si Si Si	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hyd Primary India Surface ✓ High Wa ✓ Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6)	of one requi	 	Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence of Recent Iro Stunted or	nined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Od Rhizosphe of Reduce on Reduction	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D	Living Roo 4) d Soils (C6	W D Si ts (C3) S Si Si Si Si R	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) AC-Neutral Test (D5) raised Ant Mounds (D6) (LRR A)
Wetland Hyde Primary India Surface ✓ High Wa ✓ Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundation	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aeri	of one requi	——————————————————————————————————————	Water-Stain MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence G Recent Iro	nined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Od Rhizosphe of Reduce on Reduction	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D	Living Roo 4) d Soils (C6	W D Si ts (C3) S Si Si Si Si R	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Wetland Hyde Primary India Surface ✓ High Wa ✓ Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundation	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aeri	of one requi	——————————————————————————————————————	Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence of Recent Iro Stunted or	nined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Od Rhizosphe of Reduce on Reduction	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D	Living Roo 4) d Soils (C6	W D Si ts (C3) S Si Si Si Si R	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) AC-Neutral Test (D5) raised Ant Mounds (D6) (LRR A)
Wetland Hyderimary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundation Sparsely Field Observation	drology Indicators (minimum of water (A1) after Table (A2) on (A3) alarks (B1) and Deposits (B2) posits (B3) after or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerry Vegetated Concretators:	of one requi		Water-Stain MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Od Rhizosphe of Reduce in Reduction Stressed blain in Re	s (B13) dor (C1) res along d Iron (C4 on in Tille Plants (D marks)	Living Roo 1) d Soils (C6 1) (LRR A)	W D Si ts (C3) S Si Si Si Si R	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) AC-Neutral Test (D5) raised Ant Mounds (D6) (LRR A)
Wetland Hyde Primary India Surface ✓ High Wa ✓ Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundatio Sparsely Field Observation	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aeri y Vegetated Conc vations: er Present?	of one requi	(B7)e (B8)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oo Rhizosphe of Reduce in Reduction Stressed blain in Re	s (B13) dor (C1) res along d Iron (C2 on in Tille Plants (D marks)	Living Roo 1) d Soils (C6 1) (LRR A)	W D Si ts (C3) S Si Si Si Si R	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) AC-Neutral Test (D5) raised Ant Mounds (D6) (LRR A)
Wetland Hyderimary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundation Sparsely Field Observation	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aeri of Vegetated Concovations: er Present?	ial Imagery ave Surface Yes Yes	(B7)e (B8) No	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed blain in Re ches): ches):	s (B13) dor (C1) res along d Iron (C4 on in Tiller Plants (D marks)	Living Roo 4) d Soils (C6 1) (LRR A)	W D Si ts (C3) G Si Si Fi	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) rac-Neutral Test (D5) raised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Wetland Hyderimary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundation Sparsely Field Obsert Surface Water Water Table Saturation Per (includes cap	drology Indicators (minimum of water (A1) after Table (A2) on (A3) after Table (B1) on (B3) after Trust (B4) posits (B3) after Trust (B4) posits (B5) soil Cracks (B6) on Visible on Aericy Vegetated Concevations: er Present? Present? resent? pullary fringe)	ial Imagery ave Surface Yes Yes Yes Yes	(B7) e (B8) No No	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed blain in Re ches): ches): ches):	s (B13) dor (C1) res along d Iron (C4 on in Tiller Plants (D marks) 3"	Living Roo 4) d Soils (C6 1) (LRR A)	W D Si Si Si Si Fi Fi	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) AC-Neutral Test (D5) raised Ant Mounds (D6) (LRR A)
Wetland Hyderimary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundation Sparsely Field Obsert Surface Water Water Table Saturation Per (includes cap	drology Indicators (minimum of water (A1) after Table (A2) on (A3) after Table (B1) on (B3) after Trust (B4) posits (B3) after Trust (B4) posits (B5) soil Cracks (B6) on Visible on Aerry Vegetated Conceptations: er Present? Present?	ial Imagery ave Surface Yes Yes Yes Yes	(B7) e (B8) No No	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed blain in Re ches): ches): ches):	s (B13) dor (C1) res along d Iron (C4 on in Tiller Plants (D marks) 3"	Living Roo 4) d Soils (C6 1) (LRR A)	W D Si Si Si Si Fi Fi	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) rac-Neutral Test (D5) raised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Wetland Hyderimary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundation Sparsely Field Obsert Surface Water Water Table Saturation Pe (includes cap Describe Rec	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aeri y Vegetated Conc vations: er Present? Present? resent? corded Data (stree	al Imagery ave Surface Yes Yes ✓ Yes ✓	(B7) e (B8) No No No monitoring	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp Depth (inc Depth (inc	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce in Reductio Stressed blain in Re ches): ches): photos, pre	s (B13) dor (C1) res along d Iron (C2 on in Tille Plants (D marks) 3" 1"	Living Roo 4) d Soils (C6 1) (LRR A) — Wetla	W D Si Si Si Si Fi Fi	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) rac-Neutral Test (D5) raised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Wetland Hyderimary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundation Sparsely Field Obsert Surface Water Water Table Saturation Pe (includes cap Describe Rec	drology Indicators (minimum of water (A1) after Table (A2) on (A3) after Table (B1) on (B3) after Trust (B4) posits (B3) after Trust (B4) posits (B5) soil Cracks (B6) on Visible on Aericy Vegetated Concevations: er Present? Present? resent? pullary fringe)	al Imagery ave Surface Yes Yes ✓ Yes ✓	(B7) e (B8) No No No monitoring	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp Depth (inc Depth (inc	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce in Reductio Stressed blain in Re ches): ches): photos, pre	s (B13) dor (C1) res along d Iron (C2 on in Tille Plants (D marks) 3" 1"	Living Roo 4) d Soils (C6 1) (LRR A) — Wetla pections), i	W D Si Si Si Si Fi Fi	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) rac-Neutral Test (D5) raised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Wetland Hyderimary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundation Sparsely Field Obsert Surface Water Water Table Saturation Pe (includes cap Describe Rec	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aeri y Vegetated Conc vations: er Present? Present? resent? corded Data (stree	al Imagery ave Surface Yes Yes ✓ Yes ✓	(B7) e (B8) No No No monitoring	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp Depth (inc Depth (inc	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce in Reductio Stressed blain in Re ches): ches): photos, pre	s (B13) dor (C1) res along d Iron (C2 on in Tille Plants (D marks) 3" 1"	Living Roo 4) d Soils (C6 1) (LRR A) — Wetla pections), i	W D Si Si Si Si Fi Fi	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) rac-Neutral Test (D5) raised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Wetland Hyderimary India Surface High Water Management Sedimer Drift Dep Algal Management Iron Dep Surface Inundation Sparsely Field Obsert Surface Water Water Table Saturation Pe (includes cap Describe Rec	drology Indicato cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) Soil Cracks (B6) on Visible on Aeri y Vegetated Conc vations: er Present? Present? resent? corded Data (stree	al Imagery ave Surface Yes Yes ✓ Yes ✓	(B7) e (B8) No No No monitoring	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp Depth (inc Depth (inc	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce in Reductio Stressed blain in Re ches): ches): photos, pre	s (B13) dor (C1) res along d Iron (C2 on in Tille Plants (D marks) 3" 1"	Living Roo 4) d Soils (C6 1) (LRR A) — Wetla pections), i	W D Si Si Si Si Fi Fi	rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) raturation Visible on Aerial Imagery (C9) reomorphic Position (D2) rhallow Aquitard (D3) rac-Neutral Test (D5) raised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Project/Site: Brookman/Sherwood	(City/Cou	unty: Sherwoo	od	Sampling I	Date: 12/17/	2019
Applicant/Owner: Riverside Homes	_			State: OR			
Investigator(s): K. Reavis, K. Sanderford	;						
Landform (hillslope, terrace, etc.): riparian, floodplain				_			
Subregion (LRR): A-Northwest Forests and Coasts							
Soil Map Unit Name: Verboort silty clay loam, 0 to 3% s							
Are climatic / hydrologic conditions on the site typical for this t	ime of yea	ar? Yes	s No	X (If no, explain in R	emarks.)		
Are Vegetation, Soil, or Hydrology sig	-					es X N	0
Are Vegetation, Soil, or Hydrology nat							
SUMMARY OF FINDINGS - Attach site map si	nowing	samp	ling point lo	ocations, transects	, importa	nt feature	s, etc.
Hydrophytic Vegetation Present? Yes No				· · · · · · · · · · · · · · · · · · ·	<u> </u>		
Hydric Soil Present? Yes No			s the Sampled				
Wetland Hydrology Present? Yes X No		V	within a Wetlan	id? Yes	No _	<u>×</u>	
Remarks: Precipitation for the water year to date is 36%.							
VEGETATION – Use scientific names of plants							
•	Absolute	Domin	nant Indicator	Dominance Test work	sheet:		
			es? Status	Number of Dominant S		_	
Acer macrophyllum	40	<u> </u>	<u>FACU</u>	That Are OBL, FACW,		2	(A)
2. Fraxinus latifolia	30	Y	<u>FACW</u>	Total Number of Domin	ant		
3. Ilex aquifolium	5		<u>FACU</u>	Species Across All Stra		5	(B)
4	75			Percent of Dominant Sp			
Sapling/Shrub Stratum (Plot size: 30' diameter	75	= Total	l Cover	That Are OBL, FACW,		40	(A/B)
1. Symphoricarpos albus	40	Υ	FACU	Prevalence Index wor			
2. Rosa pisocarpa	5		FAC	Total % Cover of:		Multiply by:	_
3. Amelanchier alnifolia	5		FACU	OBL species0	^ '		_
4. Oemleria cerasirformis	5		FACU	FACW species 30		4-	_
5				FACUS pecies 11	^		_
	55	= Total	l Cover	1 AOO species	^		_
Herb Stratum (Plot size: 5' diameter)	40	.,	540	Of L species	^_	= <u> </u>	— (D)
1. Carex leptopoda	10	<u>Y</u>	FAC	Column Totals: 155	5 (A)		(B)
2. Galium aparine	trace		<u>FACU</u>	Prevalence Index	= B/A = _	3.52	
3. Tolmiea menziesii	trace		FAC	Hydrophytic Vegetation	on Indicato	rs:	
4				1 - Rapid Test for H	Hydrophytic	Vegetation	
5				2 - Dominance Tes			
6				3 - Prevalence Inde			
7				4 - Morphological A data in Remarks			
8				5 - Wetland Non-Va			
9				Problematic Hydro			in)
10				¹ Indicators of hydric soi		, ,	•
11		= Total	Cover	be present, unless distu			iidot
Woody Vine Stratum (Plot size:)	10	= rotai	Cover				
1. Rubus ursinus	15	Υ	FACU	Hydrophytic			
2.				Vegetation			
	15	= Total	Cover	Present? Ye	s	No <u>×</u>	
% Bare Ground in Herb Stratum 90				<u> </u>			
Remarks:							

Profile Desc	ription: (Descril	oe to the de	epth nee	ded to document the indicator	or confirm	the absence	of indicators.)
Depth	Matrix			Redox Features	Loc ²	Tt	Demode
(inches) 0-10"	Color (moist) 10 YR 3/1	<u>%</u> 100		lor (moist) % Type ¹	Loc	Texture silt loam	Remarks
			_				
10-18"	10 YR 2/2	100				silt loam	
							
							
-							
¹Type: C=Co	ncentration. D=D	epletion. RI	M=Redu	ced Matrix, CS=Covered or Coate	d Sand Gra	ains. ² Loc	ation: PL=Pore Lining, M=Matrix.
				unless otherwise noted.)			rs for Problematic Hydric Soils ³ :
Histosol	(A1)		S	andy Redox (S5)		2 cm	Muck (A10)
	ipedon (A2)			tripped Matrix (S6)		·	Parent Material (TF2)
Black His			L	oamy Mucky Mineral (F1) (except	MLRA 1)	Very	Shallow Dark Surface (TF12)
Hydrogei	n Sulfide (A4)		L	pamy Gleyed Matrix (F2)		Othe	er (Explain in Remarks)
	Below Dark Surf	ace (A11)		epleted Matrix (F3)			
	rk Surface (A12)			edox Dark Surface (F6)			rs of hydrophytic vegetation and
	ucky Mineral (S1			epleted Dark Surface (F7)			nd hydrology must be present,
	leyed Matrix (S4)		R	edox Depressions (F8)		uniess	s disturbed or problematic.
_	ayer (if present)						
Type:							
Depth (inc	hes):					Hydric Soil	Present? Yes No <u>×</u>
Remarks:							
HYDROLOG	ΒΥ						
	rology Indicator	re ·					
_	ators (minimum d		ed chec	k all that apply)		Secon	dary Indicators (2 or more required)
	Nater (A1)	n one requi	eu, chec	Water-Stained Leaves (B9) (e.	voont		
	ter Table (A2)		-	Water-Staffed Leaves (B9) (e. MLRA 1, 2, 4A, and 4B)	xcept	vv	ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
✓ Saturatio				Salt Crust (B11)		D	rainage Patterns (B10)
Water Ma	. ,		=	Aquatic Invertebrates (B13)		·	ry-Season Water Table (C2)
·	t Deposits (B2)		=	Hydrogen Sulfide Odor (C1)			aturation Visible on Aerial Imagery (C9)
	osits (B3)		-	Oxidized Rhizospheres along	Livina Poot		3 , (,
	t or Crust (B4)			Presence of Reduced Iron (C4	-		nallow Aquitard (D3)
Iron Dep	, ,			Recent Iron Reduction in Tilled			AC-Neutral Test (D5)
-	Soil Cracks (B6)			Stunted or Stressed Plants (D			aised Ant Mounds (D6) (LRR A)
	n Visible on Aeri	al Imanery (Other (Explain in Remarks)	1) (LIXIX)		ost-Heave Hummocks (D7)
	Vegetated Conc			Cirier (Explain in recinance)		<u> </u>	ost ricave riammooks (D1)
Field Observ			(20)				
Surface Water		Ves	No 😼	Depth (inches):			
Water Table I				Depth (inches): 6	_		
		_			— Motto	and Usedwala as	(Present? Ves X No
Saturation Pro (includes cap		res_v	_ NO	Depth (inches):5	wella	ina nyarology	Present? Yes X No
Describe Rec	orded Data (stre	am gauge, r	nonitorir	g well, aerial photos, previous ins	pections), it	f available:	
Remarks:							

Project/Site: Brookman/Sherwood	c	city/Count	ty: Sherwoo	od	Sampling Date: 12/17/2019
					Sampling Point: DP-12
Investigator(s): K. Reavis, K. Sanderford					
Landform (hillslope, terrace, etc.): riparian, floodplain	I	Local relie	ef (concave, o	convex, none): concave	Slope (%): 11
Subregion (LRR): A-Northwest Forests and Coasts	Lat:			Long:	Datum: n/a
Soil Map Unit Name: Verboort silty clay loam, 0 to 3% slo					
Are climatic / hydrologic conditions on the site typical for this til	me of yea	r? Yes_	No	X (If no, explain in R	Remarks.)
Are Vegetation, Soil, or Hydrology sign	nificantly d	listurbed?	Are "	Normal Circumstances" p	present? Yes X No
Are Vegetation, Soil, or Hydrology natu	urally prob	lematic?	(If ne	eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sh	owing	sampli	ng point lo	ocations, transects	, important features, etc
Hydrophytic Vegetation Present? Yes X No					
Hydric Soil Present? Yes X No _			he Sampled		.,
Wetland Hydrology Present? Yes X No _		Wit	hin a Wetlan	id? Yes _ ^_	No
Remarks: Precipitation for the water year to date is 36%.					
VEGETATION – Use scientific names of plants	_				
A		Dominar	nt Indicator	Dominance Test work	sheet:
,			? Status	Number of Dominant Sp	
1. Fraxinus latifolia		<u> Y </u>		That Are OBL, FACW,	or FAC: (A)
2				Total Number of Domin	^
3				Species Across All Stra	
4		= Total C		Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size: 30' diameter				Prevalence Index wor	(712)
1					Multiply by:
2					x 1 =
3					x 2 =
4					x 3 =
5				FACU species	x 4 =
Herb Stratum (Plot size: 5' diameter)		= Total C	over	UPL species	x 5 =
1. Carex obnupta	100	Y	OBL	Column Totals:	(A) (B)
2				Prevalence Index	c = B/A =
3				Hydrophytic Vegetation	<u> </u>
4				1 - Rapid Test for H	Hydrophytic Vegetation
5				✓ 2 - Dominance Tes	
6				3 - Prevalence Inde	ex is ≤3.0 ¹
7					Adaptations ¹ (Provide supporting
8					s or on a separate sheet)
9				5 - Wetland Non-Va	
10					phytic Vegetation ¹ (Explain)
11				be present, unless distu	il and wetland hydrology must urbed or problematic.
Woody Vine Stratum (Plot size:)	100 =	= Total Co	over		<u> </u>
1				Hydrophytic	
2.				Vegetation	
				Present? Yes	es <u> </u>
% Bare Ground in Herb Stratum					
Remarks:					

	•	•	otn needed to docur			or confirm	the absence	or indicators.)
Depth (inches)	Matrix Color (moist)	<u>%</u>	Color (moist)	x Features	Type ¹	Loc ²	Texture	Remarks
0-7"	10 YR 3/2	99	10 YR 3/4	1	С	М	silt loam	
7-11"	10 YR 3/2	95	10 YR 3/4	5	С	М	silt loam	
11-14"	10 YR 4/1	85	10 YR 3/4	15	С	М	silt loam	
15-18"	10 YR 4/1	80	10 YR 3/4	20	C	M	silt clay loam	
				· ——				
				. ———				
·					-			
17			Deduced Metric Of			-1.01.0		etiens DI Describing M Matrix
		_	=Reduced Matrix, CS LRRs, unless other			a Sana Gr		ation: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils ³ :
Histosol (nouble to un	Sandy Redox (S		ou.,			n Muck (A10)
	ipedon (A2)		Stripped Matrix	,				Parent Material (TF2)
Black His			Loamy Mucky N	. ,	1) (except	MLRA 1)		Shallow Dark Surface (TF12)
	n Sulfide (A4)		Loamy Gleyed	•	2)		Othe	er (Explain in Remarks)
	Below Dark Surf	ace (A11)	Depleted Matrix				3	
	rk Surface (A12)	`	✓ Redox Dark Su	, ,				rs of hydrophytic vegetation and
-	ucky Mineral (S1) eyed Matrix (S4)		Depleted Dark S Redox Depress	•	-7)			nd hydrology must be present, s disturbed or problematic.
	ayer (if present)		Redox Depress	10113 (1 0)			unics	s distarbed of problematic.
Type:	, (, ,							
	hes):						Hydric Soil	Present? Yes X No
Remarks:	,						_	
HYDROLOG	3Y							
_	rology Indicator							
Primary Indica	ators (minimum o	of one require	d; check all that appl					dary Indicators (2 or more required)
·	Vater (A1)		Water-Sta			ccept	W	ater-Stained Leaves (B9) (MLRA 1, 2,
✓ High Wat				1, 2, 4A, a	and 4B)		_	4A, and 4B)
✓ Saturatio	, ,		Salt Crust	` '	(5.40)			rainage Patterns (B10)
Water Ma			Aquatic In				· 	ry-Season Water Table (C2)
· · · · · · · · · · · · · · · · · · ·	t Deposits (B2) osits (B3)		Hydrogen Oxidized F			iving Doo		aturation Visible on Aerial Imagery (C9) eomorphic Position (D2)
	t or Crust (B4)		Oxidized P	•	_	-		hallow Aquitard (D3)
Iron Depo	, ,		Recent Iro					AC-Neutral Test (D5)
	Soil Cracks (B6)		Stunted or					aised Ant Mounds (D6) (LRR A)
	n Visible on Aeria	al Imagery (E			•	., (=:::::,	·	rost-Heave Hummocks (D7)
	Vegetated Conc				,			(-1)
Field Observ	ations:		`					
Surface Wate	r Present?	Yes	No <u>✓</u> Depth (in	ches):				
Water Table F	Present?	Yes <u>√</u>	No Depth (in	ches):	6"			
Saturation Pro	esent?	Yes <u>√</u>	No Depth (in	ches):	5"	Wetla	and Hydrology	/ Present? Yes X No No
(includes cap			anitarina wall aarial :	-14				
Describe Rec	oraea Data (strea	am gauge, m	onitoring well, aerial ı	priotos, pr	evious ins	bections),	ıı availadie:	
Damada								
Remarks:								

Project/Site: Brookman/Sherwood		City/Co	untv. Sherwo	od	Sampling Date:	12/17/2019
Applicant/Owner: Riverside Homes				State: OR		
• •				nge: township 3 south,		
5 · /						
Landform (hillslope, terrace, etc.): <u>riparian, floodplain</u>						
Subregion (LRR): A-Northwest Forests and Coa						
Soil Map Unit Name: Verboort silty clay loam, 0 to 3				<u>.</u>	·	
Are climatic $\slash\hspace{-0.6em}$ hydrologic conditions on the site typical for	this time of ye	ar? Ye	s No _	X (If no, explain in R	lemarks.)	
Are Vegetation, Soil, or Hydrology	_ significantly	disturbe	ed? Are	"Normal Circumstances" p	oresent? Yes>	< No
Are Vegetation, Soil, or Hydrology	_ naturally pro	blemati	ic? (If ne	eeded, explain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	samp	oling point l	ocations, transects	, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes	No X					
Hydric Soil Present? Yes			Is the Sampled			
Wetland Hydrology Present? Yes	No <u>X</u>	,	within a Wetla	nd? Yes	No <u>×</u>	-
Remarks: Precipitation for the water year to date is 3	16%					
VEGETATION – Use scientific names of pla	ants.					
	Absolute		nant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30' diameter)			ies? Status	Number of Dominant S		(4)
1. Acer circinatum	<u>50</u> 30	- <u>Y</u> Y		That Are OBL, FACW,	or FAC:	(A)
2. Pseudotsuga menziesii	<u>30</u> 			Total Number of Domin		
3. Ilex aquifolium	— — —	-	FACU	Species Across All Stra	ata: 5	(B)
4. Acer macrophyllum	10		FACU	Percent of Dominant S		
Sapling/Shrub Stratum (Plot size: 30' diameter	100	_ = 1 ota	al Cover	That Are OBL, FACW,	<u> </u>	(A/B)
1. Ilex aquifolium	50	Υ	FACU	Prevalence Index wor		
2. Oemleria cerasiformis	20	Υ	FACU	Total % Cover of:		-
3. Mahonia aquifolium	10		FACU	OBL species		
4.				FACW species		
5.				FAC species		
	80	= Tota	al Cover	FACU species		
Herb Stratum (Plot size: 5' diameter)	0.5		E4011	UPL species		
1. Polystichum munitum			FACU	Column Totals:	(A)	(B)
2				Prevalence Index	z = B/A =	
3				Hydrophytic Vegetation		
4				1 - Rapid Test for I		ation
5				2 - Dominance Tes		
6				3 - Prevalence Inde		
7				4 - Morphological A	Adaptations' (Provi s or on a separate	
8				5 - Wetland Non-V		oricet)
9				Problematic Hydro		(Explain)
10				¹ Indicators of hydric soi		
11.			l Cover	be present, unless distr		
Woody Vine Stratum (Plot size:)		10ta	Cover			
1				Hydrophytic		
2				Vegetation		~
				Present? Ye	s No	<u>^</u>
% Bare Ground in Herb Stratum 75						
Remarks:						

Profile Desc	ription: (Describ	e to the de	pth needed to document the		nfirm the absence	of indicators.)
Depth	Matrix	%	Redox Featu		2	Damanika
(inches) 0-14"	Color (moist) 10 YR 3/3	<u>%</u> 100	Color (moist) %	Type ¹ Loc	silt loam	Remarks
		 	- <u></u>			
14-18"	10 YR 4/3	100	- · <u></u> - <u></u>		loam	
			·			
	-		·			
-	-					
¹ Type: C=Co	oncentration, D=D	epletion, RI	M=Reduced Matrix, CS=Cover	ed or Coated Sar	nd Grains. ² Loc	eation: PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (App	icable to a	II LRRs, unless otherwise n	oted.)		rs for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Redox (S5)		2 cm	n Muck (A10)
Histic Ep	pipedon (A2)		Stripped Matrix (S6)			Parent Material (TF2)
Black His	stic (A3)		Loamy Mucky Mineral (Shallow Dark Surface (TF12)
	n Sulfide (A4)		Loamy Gleyed Matrix (I	=2)	Othe	er (Explain in Remarks)
	Below Dark Surf	ace (A11)	Depleted Matrix (F3)	0)	31 12 1	
	ark Surface (A12)		Redox Dark Surface (F			rs of hydrophytic vegetation and
	lucky Mineral (S1) leyed Matrix (S4)		Depleted Dark SurfaceRedox Depressions (F8			nd hydrology must be present, s disturbed or problematic.
-	_ayer (if present)		Redux Depressions (1 c	·)	unies	s disturbed or problematic.
Type:						
	ches):				Hydric Soil	Present? Yes No X
Remarks:	<u> </u>				Tryunc con	riesent: res no
Nemarks.						
HYDROLO	GY					
Wetland Hyd	drology Indicator	s:				
_			ed; check all that apply)		Secon	ndary Indicators (2 or more required)
	Water (A1)		Water-Stained Lea	aves (B9) (excent		dater-Stained Leaves (B9) (MLRA 1, 2,
_	ter Table (A2)		MLRA 1, 2, 4A		''	4A, and 4B)
Saturatio	, ,		Salt Crust (B11)	, and 12)	Di	rainage Patterns (B10)
	arks (B1)		Aquatic Invertebra	ites (B13)		ry-Season Water Table (C2)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	nt Deposits (B2)		Hydrogen Sulfide	, ,		aturation Visible on Aerial Imagery (C9)
	oosits (B3)					eomorphic Position (D2)
	it or Crust (B4)		Presence of Redu			hallow Aquitard (D3)
_	osits (B5)		Recent Iron Reduc	, ,		AC-Neutral Test (D5)
	Soil Cracks (B6)		Stunted or Stresse			aised Ant Mounds (D6) (LRR A)
	on Visible on Aeria	al Imagery (ost-Heave Hummocks (D7)
	Vegetated Conca			,	<u> </u>	(= , ,
Field Observ			()			
			No ✓ Depth (inches): _			
Surface Wate	er Present?	Yes				
Surface Water						
Water Table	Present?	Yes	No <u>✓</u> Depth (inches): _		Matland Hudralagu	/ Propert? Voc. No. X
	Present?	Yes			Wetland Hydrology	Present? Yes No _X
Water Table Saturation Pr (includes cap	Present? resent? pillary fringe)	Yes Yes	No <u>✓</u> Depth (inches): _			Present? Yes No _X
Water Table Saturation Pr (includes cap	Present? resent? pillary fringe)	Yes Yes	No _ ✓ Depth (inches): _ No _ ✓ Depth (inches): _			Present? Yes No _X
Water Table Saturation Pr (includes cap	Present? resent? pillary fringe)	Yes Yes	No _ ✓ Depth (inches): _ No _ ✓ Depth (inches): _			y Present? Yes No _X
Water Table Saturation Pr (includes cap Describe Rec	Present? resent? pillary fringe)	Yes Yes	No _ ✓ Depth (inches): _ No _ ✓ Depth (inches): _			Present? Yes No _X
Water Table Saturation Pr (includes cap Describe Rec	Present? resent? pillary fringe)	Yes Yes	No _ ✓ Depth (inches): _ No _ ✓ Depth (inches): _			Present? Yes No _X
Water Table Saturation Pr (includes cap Describe Rec	Present? resent? pillary fringe)	Yes Yes	No _ ✓ Depth (inches): _ No _ ✓ Depth (inches): _			Present? Yes No _X

Project/Site: Brookman/Sherwood	(City/Co	unty: Sherwo	od	Sampling [Date: 12/17/	2019
Applicant/Owner: Riverside Homes				State: OR			
Investigator(s): K. Reavis, K. Sanderford							
Landform (hillslope, terrace, etc.): riparian, floodplain		Local r	relief (concave,	convex, none): concave	!	_ Slope (%):	10
Subregion (LRR): A-Northwest Forests and Coast	sts_Lat:			_ Long:		Datum: n/a	
Soil Map Unit Name: Aloha Silt Ioam, map unit 1, rat				NWI classific			
Are climatic / hydrologic conditions on the site typical for t							
Are Vegetation, Soil, or Hydrology	_significantly	disturbe	ed? Are	"Normal Circumstances" p	resent? Ye	es X N	o
Are Vegetation, Soil, or Hydrology	_ naturally pro	blemati	ic? (If ne	eeded, explain any answe	rs in Remark	(S.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	samp	oling point l	ocations, transects	, importa	nt feature:	s, etc.
Hydrophytic Vegetation Present? Yes X	No						
Hydric Soil Present? Yes X	· · · · · · · · · · · · · · · · · · ·		Is the Sampled within a Wetlan		No		
Wetland Hydrology Present? Yes X			Within a Wella	163	''-	 _	
Remarks: Precipitation for the water year to date is 30	6%						
VEGETATION – Use scientific names of pla	ants.						
Tue Otation (District 20! diameter)			nant Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30' diameter) 1			es? Status	Number of Dominant Sp That Are OBL, FACW, of		1	(A)
2				Total Number of Domin		4	
3				Species Across All Stra	ta:	1	(B)
4			al Cover	Percent of Dominant Sp		100	(A /D)
Sapling/Shrub Stratum (Plot size: 30' diameter		_ 1016	00001	That Are OBL, FACW, or Prevalence Index wor			(A/B)
Cornus sericea	100	Y	FACW	Total % Cover of:		Multiply by:	
2		-		OBL species			
3				FACW species			
4				FAC species			
5		- Tota	al Cover	FACU species	x 4 =	·	_
Herb Stratum (Plot size: 5' diameter)	100	_ 1018	ai Covei	UPL species	x 5 =		_
1				Column Totals:	(A)		_ (B)
2				Prevalence Index	= B/A =		_
3				Hydrophytic Vegetation	n Indicator	s:	
4				1 - Rapid Test for H		√egetation	
5				✓ 2 - Dominance Tes			
6				3 - Prevalence Inde			
7 8				4 - Morphological A data in Remarks			
9				5 - Wetland Non-Va			
10.				Problematic Hydro			in)
11.				¹ Indicators of hydric soi			nust
			l Cover	be present, unless distu	irbed or prob	olematic.	
Woody Vine Stratum (Plot size:)							
1				Hydrophytic Vegetation			
2			L Cover		s_X1	No	
% Bare Ground in Herb Stratum 100		- 10ta	l Cover				
Remarks:				•			

SOIL

Sampling Point: DP-14

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

Depth	epth Matrix Redox Features							
(inches)	Color (moist)	%	Color (moist)	%	_Type ¹	Loc ²	<u>Texture</u>	Remarks
0-8"	7.5 YR 2.5/2	100						
8-11"	10 YR 3/2	95	10 YR 3/4	5	С	М	silt loam	
11-16"	10 YR 3/1	85	7.5 YR 3/3	15	С	М	silt clay loam	
16-19"	10 YR 4/1	80	7.5 YR 3/4	20	С	М	silt clay loam	
						-		
						-	-	
			=Reduced Matrix, CS			d Sand G		cation: PL=Pore Lining, M=Matrix.
_		ble to all	LRRs, unless other		ed.)			ors for Problematic Hydric Soils ³ :
Histosol	` '		Sandy Redox (S					m Muck (A10)
	oipedon (A2)		Stripped Matrix	` '	4) /	MI DA 4		d Parent Material (TF2)
	stic (A3)		Loamy Mucky M			MLRA 1)		y Shallow Dark Surface (TF12)
	n Sulfide (A4)	(444)	Loamy Gleyed N		(1)		Oth	er (Explain in Remarks)
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Matrix✓ Redox Dark Sur				3Indicate	ors of hydrophytic vegetation and
	fucky Mineral (S1)		Depleted Dark S					and hydrology must be present,
-	Gleyed Matrix (S4)		Redox Depressi		1)			es disturbed or problematic.
	Layer (if present):		Nodex Bepressi	0.10 (1 0)			1	so dictarged of problematic.
Type:	, p ,							
Depth (in	ches):						Hydric Soil	Present? Yes X No
Remarks:							, , , , ,	
rtomanto.								
HYDROLO	GY							
	drology Indicators:			,			0	
-		ne require	d; check all that apply					ndary Indicators (2 or more required)
	Water (A1)		Water-Stai			xcept	V	Vater-Stained Leaves (B9) (MLRA 1, 2,
_	iter Table (A2)			I, 2, 4A, a	and 4B)			4A, and 4B)
Saturation	on (A3)		Salt Crust	(B11)				Prainage Patterns (B10)
Water M	arks (B1)		Aquatic Inv	ertebrate	s (B13)		<u>√</u> □	Ory-Season Water Table (C2)
Sedimer	nt Deposits (B2)		Hydrogen S	Sulfide O	dor (C1)		s	Saturation Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Oxidized R	hizosphe	res along	Living Roo	ots (C3) 🔽 🤆	Seomorphic Position (D2)
Algal Ma	at or Crust (B4)		Presence of	of Reduce	ed Iron (C4	ł)	s	Shallow Aquitard (D3)
Iron Dep	osits (B5)		Recent Iron	n Reducti	on in Tille	d Soils (Ce	6) <u>🗸</u> F	AC-Neutral Test (D5)
Surface	Soil Cracks (B6)		Stunted or	Stressed	Plants (D	1) (LRR A) F	Raised Ant Mounds (D6) (LRR A)
Inundati	on Visible on Aerial Ir	nagery (B	7) Other (Exp	lain in Re	marks)		F	rost-Heave Hummocks (D7)
Sparsely	Vegetated Concave	Surface (B8)					
Field Obser	vations:							
Surface Wat	er Present? Ye	es	No <u>✓</u> Depth (inc	:hes):				
Water Table	Present? Ye	es	No ✓ Depth (inc	hes):				
Saturation P	resent? Ye	es	No ✓ Depth (inc	:hes):		Wetl	and Hydrolog	y Present? Yes X No
(includes car	oillary fringe)							<u> </u>
Describe Re	corded Data (stream	gauge, mo	onitoring well, aerial p	hotos, pr	evious ins	pections),	it available:	
Remarks:								

Project/Site: Brookman/Sherwood		City/County: Sherwood Sampling Date: 12					
Applicant/Owner: Riverside Homes			., <u> </u>	State: OR			
• •		Section T	ownship Ra	nge: township 3 south,			
Landform (hillslope, terrace, etc.): riparian, floodplain							
Subregion (LRR): A-Northwest Forests and Coast:			•	,			
Soil Map Unit Name: Aloha Silt Loam, map unit 1, rati				NWI classific		III. <u></u>	
Are climatic / hydrologic conditions on the site typical for thi							
	-					Y Na	
Are Vegetation, Soil, or Hydrology s				'Normal Circumstances" p	·	<u>^ NO</u>	
Are Vegetation, Soil, or Hydrology r	naturally pro	blematic?	(If ne	eeded, explain any answer	's in Remarks.)		
SUMMARY OF FINDINGS – Attach site map	showing	samplii	ng point l	ocations, transects	, important fe	atures, etc.	
Hydrophytic Vegetation Present? Yes X N							
Hydric Soil Present? Yes N			he Sampled hin a Wetlar		No_X		
Wetland Hydrology Present? Yes N		•••	a vvoda	100		-	
Remarks: Precipitation for the water year to date is 36%	6.						
VEGETATION – Use scientific names of plan	ts.						
	Absolute	Dominar	nt Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30' diameter)	% Cover			Number of Dominant Sp			
1. Fraxinus latifolia	40	<u>Y</u>	<u>FACW</u>	That Are OBL, FACW, o	or FAC: 2	(A)	
2				Total Number of Domina			
3				Species Across All Stra	ta: <u>3</u>	(B)	
4	40	= Total C	over	Percent of Dominant Sp		(A/D)	
Sapling/Shrub Stratum (Plot size: 30' diameter		_ = 10(a) 0	ovei	That Are OBL, FACW, or Prevalence Index work		(A/B)	
1. Acer circinatum	30	Y	FAC	Total % Cover of:	KSneet: Multipl	ly by:	
2. Symphoricarpos albus	10		FACU		x 1 =	0	
3. Crataegus douglasii	10		FAC	FACW species 40		80	
4. Oemleria cerasiformis	_ 5	-	FACU	FAC species 40		120	
5. Rubus laciniatus	<u>trace</u> 55		<u>FACU</u>	FACU species 30		120	
Herb Stratum (Plot size: 5' diameter)		_ = Total C	over	UPL species0	x 5 =	0	
1. Polystichum munitum	15	Y	FACU	Column Totals: 110) (A)	320 (B)	
2				Prevalence Index	= B/A =	2.9	
3				Hydrophytic Vegetation	n Indicators:		
4				1 - Rapid Test for H	łydrophytic Veget	ation	
5				✓ 2 - Dominance Tes			
6				3 - Prevalence Inde			
7				4 - Morphological A	Adaptations¹ (Prov s or on a separate		
8				5 - Wetland Non-Va	•		
10.				Problematic Hydrop		(Explain)	
11.				¹ Indicators of hydric soil	l and wetland hyd	lrology must	
		= Total Co	over	be present, unless distu	irbed or problema	ıtic.	
Woody Vine Stratum (Plot size:)			E4011				
1. Rubus ursinus	trace	-	FACU	Hydrophytic			
2. Hedera helix	<u>trace</u> <5		<u>FACU</u>	Vegetation Present? Yes	s <u>× </u>		
% Bare Ground in Herb Stratum 85		= Total Co	over				
Remarks: Marginal plant community: Prevalence Index	is 3.02			1			

Profile Desc	ription: (Descri	be to the dep	th needed to docu	ment the	indicator	or confirn	n the absence of	indicators.)	
Depth	Matri			ox Feature					
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remar	ks
0-14"	10 YR 3/2	100					silt clay loam		
14-16"	10 YR 3/2	99	7.5 YR 4/6	1	С	М	silt clay loam		
			-						
	-								
							<u> </u>		
	-								
1- 0.0							. 21	. 5. 5. 1	
			=Reduced Matrix, C			ed Sand Gr		ion: PL=Pore Lining for Problematic H	
-		DIICADIE TO AII	LRRs, unless other		tea.)				yarıc Solis :
Histosol	` '		Sandy Redox					/luck (A10)	
Histic Ep	oipedon (A2)		Stripped Matri Loamy Mucky	. ,	1) (evcent	· MI DA 1\		arent Material (TF2) Shallow Dark Surfac	
	n Sulfide (A4)		Loamy Gleyed			I WILKA I)		(Explain in Remarks	
	Below Dark Sur	face (A11)	Depleted Matr		-/		Outer	(Explain in Remaine	,,
	rk Surface (A12)		Redox Dark S)		³ Indicators	of hydrophytic vege	etation and
Sandy M	lucky Mineral (S1)	Depleted Dark	Surface (l	F7)		wetland	hydrology must be	present,
	leyed Matrix (S4		Redox Depres	sions (F8)			unless o	disturbed or problem	natic.
	ayer (if present):							
Type: roo	ot refusal								
Depth (inc	ches): <u>16"</u>						Hydric Soil Pr	resent? Yes	No <u>×</u>
Remarks:									
HYDROLO	GY								
Wetland Hyd	drology Indicato	rs:							
Primary India	ators (minimum	of one require	d; check all that app	oly)			Seconda	ary Indicators (2 or r	more required)
Surface	Water (A1)		Water-St	ained Leav	es (B9) (e	xcept	Wat	er-Stained Leaves	(B9) (MLRA 1, 2,
	ter Table (A2)			1, 2, 4A,		•		IA, and 4B)	, , , , , , ,
Saturation	on (A3)		Salt Crus	t (B11)	,		Drai	inage Patterns (B10)
Water M	arks (B1)		Aquatic I	nvertebrate	es (B13)		Dry-	Season Water Tabl	e (C2)
	nt Deposits (B2)			n Sulfide O			-	uration Visible on A	
·	oosits (B3)				` '	Living Roc		morphic Position (E	• • • •
	it or Crust (B4)			of Reduc	_	_		llow Aquitard (D3)	,
Iron Dep	, ,			on Reduct				C-Neutral Test (D5)	
-	Soil Cracks (B6)			or Stressed			· —	sed Ant Mounds (D6	6) (LRR A)
	on Visible on Aer	ial Imagery (B		cplain in Re		, (st-Heave Hummock	
·	Vegetated Cond		, ,						- (- ·)
Field Observ			,						
Surface Water		Yes	No <u>√</u> Depth (i	nches):					
Water Table			No <u>√</u> Depth (ii						
							and Hudualani.		No. Y
Saturation Pi		Yes	No <u>√</u> Depth (i	ncnes):		weti	and Hydrology F	Present? Yes	No <u>^</u>
		am gauge, mo	onitoring well, aerial	photos, p	revious ins	pections),	if available:		
			_						
Remarks:									

Project/Site: Brookman/Sherwood		City/County: Sherwood Sampling Date: 12					
Applicant/Owner: Riverside Homes				State: OR			
Investigator(s): K. Reavis, K. Sanderford							
Landform (hillslope, terrace, etc.): riparian, floodplain		Local relie	f (concave,	convex, none): concave	Э	_ Slope (%):	: 13
Subregion (LRR): A-Northwest Forests and Coasts	Lat:			_ Long:		Datum: n/a	l
Soil Map Unit Name: Aloha Silt Loam, map unit 1, rating				NWI classifi			
Are climatic / hydrologic conditions on the site typical for this							
Are Vegetation, Soil, or Hydrology signature.	gnificantly	disturbed?	Are '	'Normal Circumstances"	present? Ye	es X N	lo
Are Vegetation, Soil, or Hydrology na	aturally pro	oblematic?	(If ne	eded, explain any answe	ers in Remark	(s.)	
SUMMARY OF FINDINGS - Attach site map s	howing	ı samplir	ng point l	ocations, transects	s, importa	nt feature	s, etc.
Hydrophytic Vegetation Present? Yes X No					<u> </u>		
Hydric Soil Present? Yes X No			he Sampled				
Wetland Hydrology Present? Yes X No		with	nin a Wetlar	nd? Yes <u>×</u>	No		
Remarks: Precipitation for the water year to date is 36%							
VEGETATION – Use scientific names of plant	S.						
	Absolute	Dominan	t Indicator	Dominance Test wor	ksheet:		
,		Species?		Number of Dominant S	Species	0	
1. Fraxinus latifolia		<u> Y</u>		That Are OBL, FACW,	or FAC:	3	(A)
2				Total Number of Domin		3	(D)
3 4				Species Across All Str	ata:	3	(B)
		_ = Total Co		Percent of Dominant S That Are OBL, FACW,		100	(A/B)
Sapling/Shrub Stratum (Plot size: 30' diameter				Prevalence Index wo			(740)
1. Cornus sericea		Y		Total % Cover of:		fultiply by:	
2				OBL species			
3				FACW species			
4				FAC species			
5	40	T-4-1.0		FACU species	x 4 =		_
Herb Stratum (Plot size: 5' diameter)		_ = Total Co	over	UPL species	x 5 =		_
1. Carex leptopoda	5	Y	FAC	Column Totals:	(A)		(B)
2				Prevalence Index	x = B/A =		
3				Hydrophytic Vegetati			_
4		_		1 - Rapid Test for	Hydrophytic \	/egetation	
5				2 - Dominance Te	st is >50%		
6				3 - Prevalence Ind	ex is ≤3.0 ¹		
7				4 - Morphological			
8				data in Remark	•	,	
9				5 - Wetland Non-\			· \
10		-		Problematic Hydro Indicators of hydric so			
11		T-+-1 O-		be present, unless dist			iliust
Woody Vine Stratum (Plot size:)		_= Total Co	ver				
1		_		Hydrophytic			
2				Vegetation	· ·		
		= Total Co	ver	Present? Ye	es <u>×</u> 1	ио	
% Bare Ground in Herb Stratum 95 Remarks:							
remans.							

Depth		to the acpui	needed to docur	ment the i	nuicator	or commin	n the absence	of indicators.)
	Matrix		Redo	x Feature	3			
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-7"	7.5 YR 2.5/2	100					silt clay loam	
7-13"	7.5 YR 2.5/2	95	7.5 YR 3/4	5	C	M	silt clay loam	
13-18"	10 YR 3/2	90	7.5 YR 3/4	10	С	M	silt clay loam	
	oncentration, D=De					d Sand Gi		cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LI	RRs, unless other	rwise not	ed.)		Indicate	ors for Problematic Hydric Soils ³ :
Histosol	` '		_ Sandy Redox (m Muck (A10)
	pipedon (A2)	_	Stripped Matrix	` '				d Parent Material (TF2)
l ——	istic (A3)	_	_ Loamy Mucky N			MLRA 1)		y Shallow Dark Surface (TF12)
	en Sulfide (A4)	<u> </u>	_ Loamy Gleyed)		Oth	er (Explain in Remarks)
	d Below Dark Surfa		_ Depleted Matrix				31 11 1	
	ark Surface (A12)	_₹	Redox Dark Su					ors of hydrophytic vegetation and
	Mucky Mineral (S1)	_	_ Depleted Dark	•	7)			and hydrology must be present,
	Eleyed Matrix (S4) Layer (if present):	_	_ Redox Depress	sions (F8)			unies	ss disturbed or problematic.
Type:							Uvdria Cai	Draggart2 Von V No
	ches):		<u> </u>				nyuric Soi	Present?
Remarks:								
HYDROLO	CV							
	O I							
	dualagu, Indiaataua							
_	drology Indicators		ohook all that anni				Cono	ndom Indicators (2 or more required)
Primary India	cators (minimum of			•	(20)			ndary Indicators (2 or more required)
Primary India Surface	cators (minimum of Water (A1)		Water-Sta	ined Leav		kcept		Vater-Stained Leaves (B9) (MLRA 1, 2,
Primary Indice Surface High Wa	cators (minimum of Water (A1) ater Table (A2)		Water-Sta	ined Leav 1, 2, 4A, a		kcept	V	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Primary India Surface High Wa Saturation	water (A1) ater Table (A2) on (A3)		Water-Sta MLRA Salt Crust	ined Leave 1, 2, 4A, a (B11)	ind 4B)	cept	v	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10)
Primary India Surface High Wa Saturatia Water M	water (A1) ater Table (A2) on (A3) larks (B1)		Water-Sta	ined Leave 1, 2, 4A, a (B11)	ind 4B)	cept	((Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2)
Primary India Surface High Wa Saturatia Water M	water (A1) ater Table (A2) on (A3)		Water-Sta MLRA Salt Crust	ined Leave 1, 2, 4A, a (B11) vertebrate	and 4B) s (B13)	kcept	((Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10)
Primary India Surface High Wa Saturatia Water M	water (A1) ater Table (A2) on (A3) larks (B1)		Water-Sta MLRA Salt Crust Aquatic In	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc	and 4B) s (B13) dor (C1)		\ t \$	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2)
Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep	water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2)		Water-Sta MLRA Salt Crust Aquatic In Hydrogen	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe	s (B13) dor (C1) res along l	Living Roo	V E ots (C3) V	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3)		Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce	s (B13) dor (C1) res along I d Iron (C4	Living Roo	V C S S S S	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) ont Deposits (B2) posits (B3) at or Crust (B4)		Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oo Rhizosphe of Reduce on Reduction	s (B13) dor (C1) res along l d Iron (C4 on in Tilled	Living Roo) I Soils (C6	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Surface	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one required;	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oo Rhizosphe of Reduce on Reduction	s (B13) dor (C1) res along l d Iron (C4 on in Tilled Plants (D	Living Roo) I Soils (C6	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati	cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6)	one required;	Water-Sta MLRA Salt Crust Aquatic In: Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oo Rhizosphe of Reduce on Reduction	s (B13) dor (C1) res along l d Iron (C4 on in Tilled Plants (D	Living Roo) I Soils (C6	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial y Vegetated Concav	one required;	Water-Sta MLRA Salt Crust Aquatic In: Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oo Rhizosphe of Reduce on Reduction	s (B13) dor (C1) res along l d Iron (C4 on in Tilled Plants (D	Living Roo) I Soils (C6	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary Indice Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely	cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial y Vegetated Concav vations:	one required; Imagery (B7) ve Surface (B8	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oo Rhizosphe of Reduce on Reduction Stressed plain in Re	s (B13) dor (C1) res along l d Iron (C4 on in Tilled Plants (D marks)	Living Roo) I Soils (C6 1) (LRR A	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Wat	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial y Vegetated Concav vations: er Present?	one required; Imagery (B7) ve Surface (B8	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oo Rhizosphe of Reduce on Reduction Stressed clain in Re	s (B13) dor (C1) res along l d Iron (C4 on in Tillec Plants (D' marks)	Living Roo) I Soils (C6 I) (LRR A	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial by Vegetated Concaverations: er Present?	one required; Imagery (B7) ve Surface (B8 Yes No	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed colain in Re ches): ches):	s (B13) dor (C1) res along l d Iron (C4 on in Tilleo Plants (D' marks)	Living Roo) I Soils (Co 1) (LRR A	V Cots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial by Vegetated Concaverations: er Present? Present? resent?	Imagery (B7) ve Surface (B8 Yes No Yes No	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed colain in Re ches): ches): ches): ches):	s (B13) dor (C1) res along I d Iron (C4 on in Tilleo Plants (D' marks)	Living Roo) I Soils (C6 1) (LRR A	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial by Vegetated Concavations: er Present? Present?	Imagery (B7) ve Surface (B8 Yes No Yes No	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed colain in Re ches): ches): ches): ches):	s (B13) dor (C1) res along I d Iron (C4 on in Tilleo Plants (D' marks)	Living Roo) I Soils (C6 1) (LRR A	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial by Vegetated Concaverations: er Present? Present? resent?	Imagery (B7) ve Surface (B8 Yes No Yes No	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed colain in Re ches): ches): ches): ches):	s (B13) dor (C1) res along I d Iron (C4 on in Tilleo Plants (D' marks)	Living Roo) I Soils (C6 1) (LRR A	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial by Vegetated Concaverations: er Present? Present? resent?	Imagery (B7) ve Surface (B8 Yes No Yes No	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed colain in Re ches): ches): ches): ches):	s (B13) dor (C1) res along I d Iron (C4 on in Tilleo Plants (D' marks)	Living Roo) I Soils (C6 1) (LRR A	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial by Vegetated Concaverations: er Present? Present? resent?	Imagery (B7) ve Surface (B8 Yes No Yes No	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed colain in Re ches): ches): ches): ches):	s (B13) dor (C1) res along I d Iron (C4 on in Tilleo Plants (D' marks)	Living Roo) I Soils (C6 1) (LRR A	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial by Vegetated Concaverations: er Present? Present? resent?	Imagery (B7) ve Surface (B8 Yes No Yes No	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed colain in Re ches): ches): ches): ches):	s (B13) dor (C1) res along I d Iron (C4 on in Tilleo Plants (D' marks)	Living Roo) I Soils (C6 1) (LRR A	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Surface Inundati Sparsely Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial by Vegetated Concaverations: er Present? Present? resent?	Imagery (B7) ve Surface (B8 Yes No Yes No	Water-Sta MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	ined Leave 1, 2, 4A, a (B11) vertebrate Sulfide Oc Rhizosphe of Reduce on Reduction Stressed colain in Re ches): ches): ches): ches):	s (B13) dor (C1) res along I d Iron (C4 on in Tilleo Plants (D' marks)	Living Roo) I Soils (C6 1) (LRR A	V C S ots (C3)	Vater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site: Brookman/Sherwood	City	/County:	Date: 12/17/2	2019			
Applicant/Owner: Riverside Homes				State: OR			
Investigator(s): K. Reavis, K. Sanderford	Sec	tion, Tov	vnship, Rar	nge: township 3 south,	range 1 w	est, section (6
Landform (hillslope, terrace, etc.): riparian, floodplain	Loc	cal relief	(concave, c	onvex, none): concave	!	Slope (%):	13%
Subregion (LRR): A-Northwest Forests and Coasts Lat	t:			Long:		Datum: n/a	
Soil Map Unit Name: Aloha Silt Loam, map unit 1, rating 1				NWI classific	ation: n/a		
Are climatic / hydrologic conditions on the site typical for this time	of year?	Yes X	No	\times (If no, explain in R	emarks.)		
Are Vegetation, Soil, or Hydrology signific	antly dist	urbed?	Are "I	Normal Circumstances" p	resent? Y	es X No	<u> </u>
Are Vegetation, Soil, or Hydrology natural	lly probler	matic?	(If ne	eded, explain any answe	rs in Remaı	rks.)	
SUMMARY OF FINDINGS - Attach site map show	wing sa	mpling	point lo	cations, transects	, importa	ant features	s, etc.
Hydrophytic Vegetation Present? Yes X No							
Hydric Soil Present? Yes No>			Sampled			V	
Wetland Hydrology Present? Yes No	<u>×</u>	withi	n a Wetlan	d? Yes	No _	<u> </u>	
Remarks: Precipitation for the water year to date is 36%.							
VEGETATION – Use scientific names of plants.							<u>;</u>
Abs			Indicator	Dominance Test work	sheet:		
, <u> </u>	Cover Sp			Number of Dominant Sp		2	
1, 1000 000 000 000 000 000 000 000 000	40	Υ	FAC_	That Are OBL, FACW, o	or FAC: _	2	(A)
2			-	Total Number of Domin		3	(D)
3				Species Across All Stra	ta: _		(B)
4	10 = 1	 Γotal Cov	er	Percent of Dominant Sp That Are OBL, FACW, of		66	(A/B)
Sapling/Shrub Stratum (Plot size: 30' diameter)				Prevalence Index wor			(700)
	20			Total % Cover of:		Multiply by:	
2				OBL species 0		= 0	_
3				FACW species0	x 2	= 0	_
4				FAC species65	5 x3:	₌ 195	_
5		 Γotal Cov	or er	FACU species35	^ '	= 140	_
Herb Stratum (Plot size: 5' diameter)	<u> </u>	i Otal Cov	Ci	UPL species 0	^ 3		_
1. Polystichum munitum 3	35	Υ	FACU	Column Totals: 100	O (A)	335	_ (B)
2. Carex leptopoda	5		FAC	Prevalence Index	= B/A = _	3.35	
3				Hydrophytic Vegetation	n Indicato	rs:	
4				1 - Rapid Test for H	- Hydrophytic	Vegetation	
5				✓ 2 - Dominance Tes	t is >50%		
6				3 - Prevalence Inde			
7				4 - Morphological A			porting
8				data in Remarks 5 - Wetland Non-Va			
9				9 - Welland Non-va			n)
10				¹ Indicators of hydric soi	-		
11	40 = T	otal Cov		be present, unless distu			lust
Woody Vine Stratum (Plot size:)	= 1	olai Cove	31				
1				Hydrophytic			
2				Vegetation	~		
	= T	otal Cove	er	Present? Yes	s_ <u>×</u> _	No	
% Bare Ground in Herb Stratum 60							
Remarks: Marginal plant community: Prevalence Index is 3.3	5						

SOIL

Sampling Point: DP-17

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

Depth	Matrix	-	Redo	x Features	3			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-17"	7.5 YR 2.5/2+	100					silt loam	
17-19"	10 YR 4/1	40	7.5 YR 3/4	10		M	silt loam	
	10 YR 3/2		7.0 111 0/1					<u> </u>
	10 YR 3/2	50						
-								·
¹ Type: C=Co	oncentration, D=Deple	etion, RM=I	Reduced Matrix, CS	S=Covered	d or Coate	d Sand Gra	ains. ² Loc	cation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applica	ble to all L	RRs, unless other	rwise note	ed.)		Indicato	ors for Problematic Hydric Soils ³ :
Histosol	(A1)	_	Sandy Redox (S5)			2 cr	m Muck (A10)
	pipedon (A2)	-	Stripped Matrix	` '				l Parent Material (TF2)
Black Hi		-	Loamy Mucky N			MLRA 1)		y Shallow Dark Surface (TF12)
	n Sulfide (A4)	-	Loamy Gleyed)		Oth	er (Explain in Remarks)
	d Below Dark Surface	(A11) _	Depleted Matrix				31	
	ark Surface (A12)	=	Redox Dark Su	, ,	· 7 \			ors of hydrophytic vegetation and and hydrology must be present,
-	lucky Mineral (S1) Bleyed Matrix (S4)	-	Depleted Dark Redox Depress		7)			s disturbed or problematic.
	_ayer (if present):	_	Redox Depress	510113 (1 0)			unies	is disturbed or problematic.
Type: roo								
, , <u> </u>	ches): 16"						Hudria Cail	Present? Ves No Y
	nes). <u>10</u>						Hydric Soil	Present? Yes No X
Remarks:								
LIVEROLO	CV							
HYDROLO								
Wetland Hyd	drology Indicators:							
Primary Indic	cators (minimum of on	e required:	; check all that appl	y)				ndary Indicators (2 or more required)
Surface	Water (A1)		Water-Sta	ined Leave	es (B9) (e	xcept	v	Vater-Stained Leaves (B9) (MLRA 1, 2,
High Wa	iter Table (A2)		MLRA	1, 2, 4A, a	nd 4B)			4A, and 4B)
Saturation	on (A3)		Salt Crust	(B11)			D	Prainage Patterns (B10)
Water M	arks (B1)		Aquatic In	vertebrate	s (B13)		D	ry-Season Water Table (C2)
Sedimer	nt Deposits (B2)		Hydrogen	Sulfide Od	dor (C1)		s	aturation Visible on Aerial Imagery (C9)
Drift Dep	oosits (B3)		Oxidized F	Rhizosphei	res along	Living Root	ts (C3) G	Geomorphic Position (D2)
Algal Ma	t or Crust (B4)		Presence	of Reduce	d Iron (C4	·)	s	hallow Aquitard (D3)
Iron Dep	osits (B5)		Recent Iro					AC-Neutral Test (D5)
	Soil Cracks (B6)		Stunted or					Raised Ant Mounds (D6) (LRR A)
	on Visible on Aerial In	nagery (B7				, ,	· <u> </u>	rost-Heave Hummocks (D7)
	Vegetated Concave				,			` ,
Field Observ	vations:		,					
Surface Wate	er Present? Ye	s N	lo <u>√</u> Depth (in	ches):				
Water Table			lo ✓ Depth (in					
Saturation P			lo <u>√</u> Depth (in				and Hydrolog	y Present? Yes No X
(includes cap	oillary fringe)	.3 1	o V Depui (iii	ones)		_ *******	ilia riyarolog	yrresent: res No
Describe Red	corded Data (stream o	gauge, mor	nitoring well, aerial _l	photos, pre	evious ins	pections), i	f available:	
Remarks:								



Client/Project Name: Riverside Homes			Site Addres		ET Brookman Rd.,			way and
			Sherwood,	OR 97140		onsite tribut	ary	
Township/Range/Section: T3S R1W S00	6		1(.) 404					
Tax Map: T3S R1W S06 Brief Description of Plot Location: The	site is located wit	thin the Broo	Lot(s): 104 kman Additi	on community	v in the south e	nd of Sherwo	od. Oregon. 1	The lot is a
rectangle with southern side along SW	Brookman Rd.							
Site Investigator Name: Kim Reavis, Kin			Date of Inve	estigation: 12/	17/2019, 12/18/2	2019		
Plant Community Type: Riparian forest	Percent Aerial F	Percent Relative	Nati	ive? (1)	Noxio	us?(2)	Invasi	ve? (3)
Herbaceous Stratum	Cover	Cover	Yes	No	Yes	No	Yes	No
1 Polystichum munitum	40	22	Х			Х		х
2 Carex leptopoda	1	1	Х			Х		Х
3 40% moss/leaf litter		0						
4		0						
5		0						
6		0						
7		0						
9		0			<u> </u>			
10		0						
Shrub Stratum		0						
1 Corylus cornuta	30	16				х		х
2 Rubus ursinus	15	8				х		х
3 Acer circinatum	30	16				х		х
4		0						
5		0						
6		0						
7		0						
8		0						
9		0						
10		0						
Tree Stratum		0						
1 Pseudotsuga menziesii	30	16	х			х		х
2 Prunus avium	20	11		Х		Х		Х
3 Fraxinus latifolia	20	11	Х			Х		Х
4		0						
5		0						
6		0						
7		0						
8		0						
9	400	0						
Total	186	100					1	
Total percent relative native species cover								89%
Total percent aerial cover of tree canopy								70%
Total percent relative cover of non-native, no	xious, and invasive s	species						11%
Good Condition (native species >80%	of the community a	and tree canop	y >50% aerial	cover)				
Marginal Condition (native species 50)-80% of the commu	ınity and tree c	anopy 26-50%	aerial cover)				
Degraded Condition (native species <	<50% of the commur	nity and tree ca	anopy <25% as	erial coverage)				
Comments:								

		VE	GETATED C	ORRIDOR	DATA SHE	ET			
Client/P	roject Name: Brookman/Sherwoo	d		Site Address Sherwood, C		Brookman Rd.,	Plot ID: VC- south of cha		n ROW,
	ip/Range/Section: Township 3 so	uth, range 1 w	est, section 6						
Brief De	o: T3S R1W S06 escription of Plot Location: The si le with southern side along SW B		ithin the Broo	Lot(s): 104 kman Additio	on communit	ty in the south e	nd of Sherwo	od, Oregon. Ti	he lot is a
	estigator Name: Kim Reavis, Kim ommunity Type: riparian	Sanderford		Date of Inve	stigation: 12	/17/2019, 12/18/2	2019		
Flailt Ct		Percent Aerial	Percent Relative		/e? (1)	Noxio	us?(2)	Invasiv	re? (3)
	Herbaceous Stratum	Cover	Cover	Yes	No	Yes	No	Yes	No
	iea menziesii	20					X		X
	x leptopoda	15					X		X
	m aparine	5					Х		Х
	leaf litter		0						
5			0						
6 7			0						
8			0						
9			0						
10			0						
10	Shrub Stratum		0						
1 Rosa	pisocarpa	30	15				х		х
	us sericea	30					х		х
	phoricarpos albus	10	5				х		х
	ocarpus capitatus	5	3	х			х		х
5 Acer	circinatum	5	3	х			х		х
6			0						
7			0						
8			0						
9			0						
10			0						
	Tree Stratum		0						
1 Fraxi	nus latifolia	80	40	х			х		Х
2			0						
3			0						
4			0						
5			0						
6			0						
7			0						
8			0						
9			0						
Total		200	100						
Total per	cent relative native species cover								100%
Total per	cent aerial cover of tree canopy								80%
Total per	cent relative cover of non-native, noxic	ous, and invasive	species						0%
c	Good Condition (native species >80% o	of the community	and tree canop	v >50% aerial o	cover)				
	Marginal Condition (native species 50-8								
	Degraded Condition (native species <50								
			-						
Comme	nts:								

	VF	GETATED C	CORRIDOR	DATA SHEE	ET .					
Client/Project Name: Brookman/Sherwo		CLIAILD			Brookman Rd.,	Plot ID: VC-	3, west of nor	thern most		
			Sherwood, OR 97140 wetland area							
Township/Range/Section: Township 3 s Tax Map: T3S R1W S06	outh, range 1 w	est, section 6	Lot(s): 104							
Brief Description of Plot Location: The	site is located w	ithin the Broo		on community	in the south e	nd of Sherwo	od, Oregon. T	he lot is a		
rectangle with southern side along SW	Brookman Rd.									
Site Investigator Name: Kim Reavis, Kir	n Sanderford		Date of Inve	stigation: 12/1	17/2019, 12/18/2	2019				
Plant Community Type:	Percent Aerial	Percent Relative	Nati	ve? (1)	Noxio	us?(2)	Invasiv	re? (3)		
Herbaceous Stratum	Cover	Cover	Yes	No	Yes	No	Yes	No		
1 Polystichum munitum	60	30	Х			Х		Х		
2 40% leaf litter		0			-					
3		0			-					
4		0			-					
5		0			-					
6		0			1					
7		0			-					
8		0			1					
9		0								
10		0								
Shrub Stratum		0			-					
1 Symphoricarpos albus	15	8			-	Х		Х		
2 Corylus cornuta	25					Х		Х		
3 Ilex aquifolium	10	5		Х		Х		Х		
4		0								
5		0								
6		0								
7		0			-					
8		0								
9		0								
10		0								
Tree Stratum		0			-					
1 Corylus cornuta	80	40				Х		Х		
2 Pseudotsuga menziesii	5	3			1	Х		Х		
3 Thuja plicata	5	3				Х		Х		
4		0			1					
5		0								
6		0			1					
7		0								
8		0			1					
9		0								
Total	200	100					<u> </u>			
Total percent relative native species cover								95%		
Total percent aerial cover of tree canopy								90%		
Total percent relative cover of non-native, no	cious, and invasive	species						5%		
							II.			
<u> </u>										
Good Condition (native species >80%	of the community	and tree canop	y >50% aerial o	cover)						
Marginal Condition (native species 50	-80% of the comm	unity and tree c	anopy 26-50%	aerial cover)						
Degraded Condition (native species <	:50% of the commu	unity and tree ca	anopy <25% ae	rial coverage)						
Comments:										
Comments.										

	VE	GETATED C	ORRIDOR	DATA SHEE	Т			
Client/Project Name: Brookman/Sherwood				s: 17433 SW B		Plot ID: VC- side of creel		e on west
Township/Range/Section: Township 3 soเ	ıth, range 1 w	est, section 6				1		
Tax Map: T3S R1W S06 Brief Description of Plot Location: The sit	o io located w	ithin the Bree	Lot(s): 104	n community	in the couth o	nd of Chamus	od Orogon T	ha latio a
rectangle with southern side along SW Br		itilii tile Broo	Killali Auulli	on community	iii tile soutii e	na or Snerwo	ou, Oregon. 1	ne ioi is a
Site Investigator Name: Kim Reavis, Kim	Sanderford		Date of Inve	stigation: 12/1	7/2019, 12/18/2	2019		
Plant Community Type:		n (n. c		0.43		0/0		0 (0)
Herbaceous Stratum	Cover	Percent Relative Cover	Yes	ve? (1) No	Yes	us?(2) No	Invasiv Yes	Ve ? (3) No
1 Polystichum munitum	50	28	х			Х		х
2 50% leaf litter		0						
3		0						
4		0						
5		0						
6		0						
7		0						
8		0						
9		0						
10		0						
Shrub Stratum	_	0	х			x		х
1 Mahonia nervosa	5		^	х		x		x
2 Ilex aquifolium	15		х	^		x		X
3 Acer circinatum	5							
4 Corylus cornuta	20		Х			Х		Х
5		0						
6		0						
7		0						_
8		0						
9		0						
10		0						
Tree Stratum		0						
1 Pseudotsuga menziesii	60	33	Х			Х		Х
2 Tsuga heterophylla	10	6	Х			Х		Х
3 Corylus cornuta	10	6	Х			Х		Х
4 Thuja plicata	5	3	Х			Х		Х
5		0						
6		0						
7		0						
8		0						
9		0						
Total	180	100						
Total percent relative native species cover								92%
Total percent aerial cover of tree canopy								85%
Total percent relative cover of non-native, noxion	us and invasivo	eneries						
Total percent relative cover of non-native, noxion	us, and invasive	эресіез						8%
Good Condition (native species >80% of	the community	and tree canopy	y >50% aerial (cover)				
X				-				
Marginal Condition (native species 50-80	0% of the comm	unity and tree c	anopy 26-50%	aerial cover)				
Degraded Condition (native species <50	% of the commu	unity and tree ca	ınopy <25% ає	rial coverage)				
Comments:								

	VF	GETATED C	ORRIDOR	DATA SHEE	T			
Client/Project Name: Brookman/Sherwoo					Brookman Rd.,	Plot ID: VC-	5, north of co	nstructed
			Sherwood, C	OR 97140		channel		
Township/Range/Section: Township 3 so	outh, range 1 w	est, section 6	1 -4/-> 404					
Tax Map: T3S R1W S06 Brief Description of Plot Location: The si	ite is located w	ithin the Broo	Lot(s): 104 kman Additio	on community	in the south e	nd of Sherwoo	od. Oregon. T	he lot is a
rectangle with southern side along SW B	rookman Rd.						, -	
Site Investigator Name: Kim Reavis, Kim	Sanderford		Date of Inve	stigation: 12/1	7/2019, 12/18/2	019		
Plant Community Type:	Percent Aerial	Percent Relative	Nativ	ve? (1)	Noxiou	ıs?(2)	Invasi	ve? (3)
Herbaceous Stratum	Cover	Cover	Yes	No	Yes	No	Yes	No
1 Tolmiea menziesii	50	23	Х			Х		Х
2 Carex leptopoda	5	2	Х			Х		Х
3 Ranunculus repens	30	14		Х		Х	Х	
4 Galium aparine	1	0		Х		Х		Х
5 15% leaf litter		0						
6		0						
7		0						
8		0						
9		0						
10		0						
Shrub Stratum		0						
1 Sambucus racemosa	10	5	Х			Х		Х
2 Acer circinatum	20	9	Х			х		х
3 Rubus laciniatus	5	2		х		х	х	
4 Cornus sericea	30	14	х			х		х
5 Physocarpus capitatus	10	5	Х			х		х
6		0						
7		0						
8		0						
9		0						
10		0						
Tree Stratum		0						
1 Acer circinatum	15	7	Х			х		х
2 Fraxinus latifolia	40	19	Х			Х		х
3		0						
4		0						
5		0						
6		0						
7		0						
8		0						
9		0						
Total	216	100						
Total percent relative native species cover								83%
Total percent aerial cover of tree canopy								
	and investor							55%
Total percent relative cover of non-native, noxion	ous, and invasive	species						17%
Good Condition (native species >80% of	of the community	and tree canony	/ >50% aerial d	cover)				
X Marginal Condition (native species 50-8								
Degraded Condition (native species <5								
5. III Somano, (nanto oponios 10		,	, 25% do					
Comments:								

		\/E	GETATED C	CODDIDOD	DATA SUFE	т				
Client/Project Name: Brookman/Sherwood				CORRIDOR DATA SHEET Site Address: 17433 SW Brookman Rd., Plot ID: VC-6, east of Cedar Creek at 6						
	-				OR 97140	,		.,		
Township/Range/Section: Township 3 south, range 1 west, section 6										
Brief	lap: T3S R1W S06 Description of Plot Location: The sit ngle with southern side along SW Br		ithin the Broo	Lot(s): 104 kman Additio	on community	in the south e	nd of Sherwoo	od, Oregon. 1	The lot is a	
Cito I	nvestigator Name: Kim Reavis, Kim	Candarford		Data of Inva	otication: 12/1	7/2019, 12/18/2	040			
	Community Type:	Sanderiord		Date of lines	sugation: 12/1	1/2019, 12/16/2	019			
Herbaceous Stratum		Percent Aerial Cover	Percent Relative Cover		ve? (1)	Invasive? (3) Yes No				
1 To	Imiea menziesii	25		Yes X	No	Yes	No X	res	No X	
	echoma hederacea	5			х		x	х		
	% leaf litter		0							
4	yo icai mici		0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
10	Shrub Stratum		0							
1 Oe	mleria cerasiformis	50		х			х		х	
	mphoricarpos albus	10		х			х		х	
	er circinatum	15		х			х		х	
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
10			0							
Tree Stratum			0							
1 Fraxinus latifolia		75	42	х			х		х	
2			0							
3			0							
4			0							
5			0							
6			0							
7			0							
8			0							
9			0							
Total		180	100							
Total p	percent relative native species cover								97%	
Total p	percent aerial cover of tree canopy								75%	
Total p	ercent relative cover of non-native, noxio	us, and invasive	species						3%	
									370	
	ľ									
х	Good Condition (native species >80% of	f the community	and tree canop	y >50% aerial o	cover)					
	Marginal Condition (native species 50-80	0% of the comm	unity and tree c	anopy 26-50%	aerial cover)					
	Degraded Condition (native species <50	% of the commi	unity and tree ca	anopy <25% ae	rial coverage)					
Comn	nents:									

Client/Project Name: Riverside Homes / F	ar Creek	CORRIDOR DATA SHEET Site Address: 17433 SW Brookman Rd., Plot ID: VC-7 Sherwood, OR 97140 between Brookman					7, on steep slope	
Township/Range/Section: T3S R1w S06								
Tax Map: T3S R1W S06		L	_ot(s): 104					
Brief Description of Plot Location: The si rectangle with southern side along SW B				on community	in the south e	nd of Sherwoo	od, Oregon. T	he lot is a
Site Investigator Name: Kim Reavis, Kim	Sanderford		Date of Inve	stigation: 12/1	17/2019, 12/18/2	019		
	Percent Aerial Percent Relative			ve? (1)	Invasive? (3)			
Herbaceous Stratum	Cover	Cover	Yes	No	Yes	No	Yes	No
1 Polystichum munitum	75	28	Х			Х		Х
2 Rubus ursinus	10	4	X			X		X
3 Mahonia nervosa	5	2	Х			Х		Х
4 Leaf Litter 10%		0						
<u>5</u> 6		0						
7	1	0						
8		0						
9		0						
10		0						
Shrub Stratum	1	0						
1 Acer circinatum	10	4	х			х		х
2 Amelanchier alnifolia	50	19	Х			х		х
3 Corylus cornuta	30	11	Х			х		Х
4		0						
5		0						
6		0						
7		0						
8		0						
9		0						
10		0						
Tree Stratum	1	0						
1 Pseudotsuga menziesii	75	28	X			X		X
2 Amelanchier alnifolia	10	4	Х			Х		Х
3	+	0						
-	+	0						
5		0						
6		0						
7 8	+	0						
9	1	0						
5 Total	265	100						
	200			1		1		
Total percent relative native species cover Total percent aerial cover of tree canopy								100%
								85%
Total percent relative cover of non-native, noxic	ous, and invasive s	pecies						0%
Good Condition (native species >80% of	of the community a	nd tree canopy	>50% aerial o	cover)				
Marginal Condition (native species 50-8	30% of the commur	nity and tree car	nopy 26-50%	aerial cover)				
Degraded Condition (native species <5	0% of the commun	ity and tree can	opy <25% ae	rial coverage)				
Comments:								
-								