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

Project/Site:	Lacama	as North Sho	ore Trail	City/Cou	inty:	Camas	3		Samp	ling Date:	10/26/2	2017			
Applicant/Owr	ner: <u>Ci</u>	ty of Camas				State:	WA	Sampling F	oint:	K5-U					
Investigator(s): Kent Snyder and Ivy Watson Section, Township, Range: SW ¼ S35 T2N R3E															
Landform (hill	slope, ter	race, etc.):	hillslope		Lo	cal relief	(concave	, convex, no	ne):	convex		Slope (%	»):	~10%	
Subregion (LF	₹R): <u>L</u>	.RR A		Lat: 4	15.607	777064	Long:	-1224098	8791	Datum:	WGS8	4			
Soil Map Unit	Name:	WgB, Was	hougal gravel	ly loam, 0	to 8%	6 slope		NW	I classi	fication:	PFO1C				
Are climatic / I	hydrologi	c conditions	on the site typ	oical for th	nis tim	e of year	? Yes	x No	(If n	o, explain in	Remark	s.)			
Are Vegetatio	n	, Soil	, or Hydrolo	ду	signif	icantly di	sturbed?	Are "Nor	mal Cir	cumstances	s" presen	t? Yes	х	No	
Are Vegetatio	n	, Soil	, or Hydrolo	ду	natur	ally probl	ematic?	(If	needeo	d, explain ar	ny answe	ers in Rem	arks	s.)	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes	No <u>x</u> No <u>x</u> No <u>x</u>	Is the Sampled Area within a Wetland?	Yes No
Remarks: West of trail				

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30 ft)	% Cover	Species?	Status	Number of Dominant Sp		
1. Pseudotsuga menziesii	70	Y	FACU	That Are OBL, FACW, o		(A)
2. Acer macrophyllum	50	Y	FACU	Total Number of Domina		
3				Species Across All Stra		(B)
4				Percent of Dominant Sp That Are OBL, FACW, o		(A/B)
						(,,,,,,)
	80	= Total Cove	er			
Sapling/Shrub Stratum (Plot size: 5 ft)				Prevalence Index worl	<sheet:< td=""><td></td></sheet:<>	
1. Mahonia nervosa	20	Y	FACU	Total % Cover of:	Multiply by:	
2. Amelanchier alnifolia	10	Y	FACU	OBL species	x 1 =	
3. Symphoricarpos albus	10	Y	FACU	FACW species	x 2 =	
4. Vaccinium parvifolium	10	Y	FACU	FAC species	x 3 =	
5. <u>Mahonia aquifolium</u>	5	Ν	FACU	FACU species	x 4 =	
6. Physocarpus capitatus	2	N	FACW	UPL species	x 5 =	
	50	= Total Cove	er	Column Totals:	(A)	(B)
Herb Stratum (Plot size: 5 ft)					_ (A)	(6)
1. Polystichum munitum	25	Y	FACU	Prevalence Index = B/A	۹ =	
2. Rubus ursinus	5	N	FACU			
3.				Hydrophytic Vegetatic	n Indicators:	
4				1 - Rapid Test for H	ydrophytic Vegeta	tion
5.				2 - Dominance Test	is >50%	
6.				3 - Prevalence Index	k is ≤3.0¹	
7.				4 - Morphological Ad	daptations ¹ (Provid	le supporting
8.				data in Remarks or o	on a separate she	et)
9.				5 - Wetland Non-Va	scular Plants ¹	
10.				Problematic Hydrop	hytic Vegetation ¹ (Explain)
11.				¹ Indicators of hydric soil	and wetland hvdr	oloav must
	30	= Total Cove	er	be present, unless distu		
Woody Vine Stratum (Plot size: 30 ft)			-			
1. none						
2.				Hydrophytic		
	0	= Total Cove	er	Vegetation Present? Yes	No x	
% Bare Ground in Herb Stratum 70			-			_
	-					
Remarks:				l		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of Indicators.) Depth Matrix Color (moist) % Type Loc' Texture Texture <th< th=""><th>SOIL</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Sampling Point:</th><th>K5-U</th></th<>	SOIL							Sampling Point:	K5-U
		• •	o the depth				confirm the a	bsence of indicators.)	
0-5 10YR2/1			0/				1 2	Tautuna	Demente
0-5 10YR2/1	(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type	LOC		Remarks
5-12 10YR3/2	0-5	10YR2/1							
12:16 10YR4/3						-	·		
12:16 10YR4/3	5-12	10YR3/2							
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histoc Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histoc Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Histoc Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils*: Depleted Below Dark Surface (A1) Depleted Matrix (F3) Bandy Mucky Mineral (S1) Depleted Dark Surface (F7) Trype: Indicators (If present): Type: Indicators (If present): Type: No Surface Water (A1) Redox Depressions (F8) Wetland Hydrology Indicators: MILRA 1, 2, AA, and 49 Surface Water (A1) Autor (A1) Water Stained Laws (B3) MILRA 1, 2, AA, and 49 Miller Mirks (B1) Outride of Resistor (C2) Surface Water (A1) Autor (A1) Hydric Soil Present? Yes Miller Mirks (B1) Outride of Riscipan Surface (A2) Surface Water (A1) Surface (A1) <td>10.10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	10.10								
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Histosel (A1) Safay Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S5) Red Parent Material (T2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shalow Dark Surface (TF12) Depleted Matrix (F2) Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if present): Type: Depleted Matrix (F3) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Phyter Matrix (F3) Redox Dark Surface (F7) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if present): Type: Parent Material (F1) No x Point (inches): Matrix (F3) Matrix (F3) Matrix (F3) Water Salined Lawes (E9) (except Matrix (F3) Water Salined Lawes (E9) (mLRA 1, 2, 4A, and 49) Water Salined Lawes (E9) (mLRA 1, 2, 4A, and 49) Matrix F3 Saturation (A3) Aquatic Invertebrates (E13) Dyseason Water Table (C2) Saturation (X3) Aquatic Invertebrates (E13) Dyseason Water Table (C2) Saturation (D2) Saturation (D2) Saturation (D2) Saturation (D2) Saturation (D3) Dyseason Water Table (C2)	Type: C=Co	ncentration, D=Deple	etion, RIVI=R	reduced Matrix, CS	=Covered (or Coated S	sand Grains.	Location: PL=Pore L	ining, M=Matrix.
Histosel (A1) Sandy Redox (S5) 2 em Muck (A10) Histo Epipedon (A2) Stripped Matrix (S3) Red Parent Material (TF2) User Statistic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Depleted Matrix (F2) Depleted Matrix (F2) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if present): Type: Depleted Matrix (F2) No Phinary Indicators: Primary Indicators: No x Primary Indicators (minimum of one required; check all that apply) Water Statistic (A3) Aquatic Investorates (B9) (except Mater Statistic Lawes (B9) (except Mater Statistic Lawes (B1) Water Statistic Lawes (B9) (mLRA 1, 2, 4A, and 4B) Surface Water (A1) MuRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Drainage Patterns (B10) Saturation (A3) Aquatic Investorates (B1) Drainage Patterns (B10) Drainage Patterns (B10) Surface Water (A1) MuRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Drainage Patterns (B10) Saturation (A3) Aquatic Investorates (B1) Drainage Patterns (B10) Drainage Patterns (B10) Surface Water (A1) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) <t< td=""><td>Hydric Soil</td><td>Indicators: (Applica</td><td>able to all L</td><td>RRs, unless other</td><td>wise note</td><td>d.)</td><td>Indi</td><td>cators for Problematic</td><td>Hydric Soils³:</td></t<>	Hydric Soil	Indicators: (Applica	able to all L	RRs, unless other	wise note	d.)	Indi	cators for Problematic	Hydric Soils ³ :
Histic Epipedon (A2) Stripped Matrix (S6) — Red Parent Material (TF2) Biakot Histic (A3) Loamy Worky Mineral (T1) (except MLRA 1) — Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A12) Depleted Matrix (F3) — Other (Explain in Remarks) Sandy Mucky Mineral (S1) Depleted Dark Surface (F72) • Very Shallow Dark Surface (F72) Sandy Mucky Mineral (S1) Depleted Dark Surface (F73) • Very Shallow Dark Surface (F72) No x • Very Shallow Dark Surface (F72) Baskot Mucky Mineral (S1) Depleted Dark Surface (F73) • Very Shallow Dark Surface (F72) No x • Very Shallow Dark Surface (F72) • Very Shallow Dark Surface (F72) No x • Very Shallow Dark Surface (F72) • Very Shallow Dark Surface (F72) No x • Very Shallow Dark Surface (F72) • Very Shallow Dark Surface (F72) No x • Very Shallow Dark Surface (F72) • Very Shallow Dark Surface (F72) Present? Yes No x Present? West Shallow Coccept • Very Shallow Dark Surface (F72) Water Stained Layers (B1) • Marka 1, 2, 4A, and 4B) • Darka 1, 2, 4A, and 4B) • Darka 1, 2, 4A, and 4B) • Darka 4, and 4B) </td <td>Histosol</td> <td>(A1)</td> <td></td> <td>Sandy Redox (S</td> <td>5)</td> <td></td> <td></td> <td></td> <td>•</td>	Histosol	(A1)		Sandy Redox (S	5)				•
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Depleted Below Dark Surface (A11) Depleted Matrix (F3) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if present): Type: Depleted Dark Surface (F7) "Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if present): Type:						(except ML			
Image: Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Pindicators of hydrophytic vegetation and wettand hydrology must be present, unless disturbed or problematic Restrictive Layer (if present): Type: Image: Sandy Gleyed Matrix (S4) Present Type: Depleted Dark Surface (F7) Image: Sandy Gleyed Matrix (S4) No x Present: Type: Depth (inches): Image: Sandy Gleyed Matrix (S4) No x Present: Type: Depth (inches): Image: Sandy Gleyed Matrix (S4) No x Present: Type: Matrix (S4) Matrix (S4) Image: Sandy Gleyed Matrix (S4) Image: Sandy Gleyeed Matrix (S4) Image: Sandy GleyeedM								Other (Explain in Remar	ks)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic Restrictive Layer (if present): Type:			(A11)						
Restrictive Layer (if present): Type:									
Type:	Sandy G	Bieyed Matrix (54)		_ Redux Depressio	ns (Fo)			unless disturbed of prob	lemalic
Type:	Restrictive La	ver (if present):							
Depth (inches):	-					Hydric S	oil Present?	Yes	No
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) Salt Crust (B1) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Solis (C6) Surface Soil Cracks (B6) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Field Observations: No Surface Water Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Unded to Present? Yes No X Depth (inches):	· · ·					inyune e	on resent?	103	
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks:	Describe Record	led Data (stream gaug	ge, monitori	ing well, aerial photo	os, previou	s inspection	ns), if available	e:	
Remarks:									
Remarks:	_								
	Remarks:								

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

Project/Site:	Lacama	as North Sh	ore Trail	City/Cou	unty:	Camas	6		Samp	ling Date:	10/26/2	2017			
Applicant/Owr	ner: <u>Ci</u>	ty of Camas				State:	WA	Sampling P	oint:	K8-U					
Investigator(s): Kent Snyder and Ivy Watson Section, Township, Range: SW ¼ S35 T2N R3E															
Landform (hill	slope, ter	race, etc.):	hillslope		Lo	cal relief	(concave	, convex, no	ne):	convex		Slope (%)	: _^	1%	
Subregion (LF	R):	.RR A		Lat: 4	45.607	791325	Long:	-122.4097	2698	Datum:	WGS84	4			
Soil Map Unit	Name:	WgB, Was	hougal gravel	ly loam, 0) to 8%	6 slope		NW	l classi	fication:	PFO1C				
Are climatic / I	nydrologi	c conditions	on the site typ	oical for th	nis tim	e of year	? Yes	x No	(lf no	o, explain in	Remarks	s.)			
Are Vegetatio	n	, Soil	, or Hydrolo	ду	signif	ficantly di	sturbed?	Are "Norr	mal Cir	cumstances	" present	t? Yes	х	No	
Are Vegetatio	n	, Soil	, or Hydrolo	ду	natur	ally probl	ematic?	(If	needeo	d, explain ar	ny answe	rs in Rema	rks.))	

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	x x x	Is the Sampled Area within a Wetland?	Yes	No <u></u>
Remarks: East of trail					

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30 ft</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Acer macrophyllum	35	Y	FACU	That Are OBL, FACW, or FAC: 2 (A)
2. Pseudotsuga menziesii	35	Y	FACU	Total Number of Dominant
3. <u>Alnus rubra</u>	5	Ν	FAC	Species Across All Strata: 7 (B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.3 (A/B)
	75	= Total Cov	er	
Sapling/Shrub Stratum (Plot size: 5 ft)				Prevalence Index worksheet:
1. Acer circinatum	35	Y	FAC	Total % Cover of: Multiply by:
2. Rubus armeniacus	30	Y	FAC	OBL species 0 x 1 = 0
3. Oemleria cerasiformis	15	N	FACU	FACW species $0 \times 2 = 0$
4. Holodiscus discolor	10	N	FACU	FAC species 70 $\times 3 = 210$
5. Symphoricarpos albus	5	N	FACU	FACU species 200 x 4 = 800
	95	= Total Cov	er	UPL species $0 \times 5 = 0$
Herb Stratum (Plot size: 5 ft)		-		
1. Polystichum munitum	40	Y	FACU	Column Totals: <u>270</u> (A) <u>1010</u> (B)
2. Hedera spp.	40	Y	FACU	Prevalence Index = B/A = 3.7
3. Rubus ursinus	20	Y	FACU	
4.				Hydrophytic Vegetation Indicators:
5				1 - Rapid Test for Hydrophytic Vegetation
6.				2 - Dominance Test is >50%
7.				3 - Prevalence Index is ≤3.0 ¹
8.				4 - Morphological Adaptations ¹ (Provide supporting
9.				data in Remarks or on a separate sheet)
10.				5 - Wetland Non-Vascular Plants ¹
11.				Problematic Hydrophytic Vegetation ¹ (Explain)
	100	= Total Cov	er	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 30 ft)		-		be present, unless disturbed or problematic.
1. None.				
2.]
		= Total Cov	er	Hydrophytic Vegetation
% Bare Ground in Herb Stratum 10		-		Present? Yes No x
	-			
Remarks: Located between flag K-8 and K-9. Veg alo	ong boundary	in this area is	s similar, som	L etimes with more Himalayan blackberry.

SOIL							Sampling Point:	K8-U
Profile De: Depth	scription: (Describe f Matrix	o the dep	th needed to docur	nent the in Redox Fe		onfirm the a	bsence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR2/2	100					Ex gravelly loam	
				10			Ex gravelly	
12-15	10YR4/3	90	_10YR5/8	10	<u> </u>	M	loam	
							1	
							<u> </u>	
¹ Type: C=	Concentration, D=Depl	etion, RM=	Reduced Matrix, CS	S=Covered	or Coated Sa	and Grains.	² Location: PL=Pore L	ining, M=Matrix.
-	il Indicators: (Applic ol (A1)	able to all	LRRs, unless othe Sandy Redox (S		ed.)		icators for Problematic 2 cm Muck (A10)	Hydric Soils ³ :
Histic	Epipedon (A2)	_	Stripped Matrix	(Ś6)			Red Parent Material (TF	
	Histic (A3) gen Sulfide (A4)	-	Loamy Mucky M Loamy Gleyed M				Very Shallow Dark Surfa Other (Explain in Remai	
	ted Below Dark Surfac	e (A11)	Depleted Matrix					K3)
	Dark Surface (A12)	_	Redox Dark Sur		7)		³ Indicators of hydrophyt	
	Mucky Mineral (S1) Gleyed Matrix (S4)	_	Depleted Dark S Redox Depressi)		wetland hydrology must unless disturbed or prob	
Destrictive	ever (if present).							
Type:	_ayer (if present):				Hydric Sc	oil Present?	Yes	No x
Depth (in					inguine ex			
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators:							
Primary Indic	ators (minimum of one	required;		ad Laavas	(B9) (except		ndary Indicators (2 or mo /ater-Stained Leaves (BS	
Surface V	Vater (A1)		MLRA 1, 2,			4/	A, and 4B)) (MERA 1, 2 ,
	er Table (A2)		Salt Crust (E	,			rainage Patterns (B10)	
Saturation Water Ma			Aquatic Inve				ry-Season Water Table (aturation Visible on Aeria	
					along Living			ar intagery (C3)
	Deposits (B2)		Roots (C3)	Deduced	(0.1)		eomorphic Position (D2)	
Drift Depo	JSIIS (B3)		Presence of Recent Iron	Reduction	in Tilled	S	hallow Aquitard (D3)	
Algal Mat	or Crust (B4)		Soils (C6) Stunted or S			F/	AC-Neutral Test (D5)	
Iron Depo			(LRR A)			R	aised Ant Mounds (D6) (LRR A)
	Soil Cracks (B6)		Other (Expla	in in Rema	arks)	Fi	rost-Heave Hummocks (D7)
	n Visible on Aerial Ima Vegetated Concave Su							
Field Obser	vations:				I			
Surface Wat		No	Depth (inches)	:				
Water Table	Present? Yes	No	Depth (inches)		We	etland Hydro	logy Present? Yes	No x
Saturation P (includes cap		No	Depth (inches)	:				
	orded Data (stream gau				us inspection	s), if availabl	e:	

Remarks: