

February 13, 2023

Dirk Nevelle cdneve@icloud.com AOA-6678

SUBJECT: Critical Areas Designation for 10408 – 420th Ave. SE Parcel 032308-9160, King County, WA

Dear Dirk:

On February 1, 2023 AOA conducted a wetland and stream reconnaissance on the subject property utilizing the methodology outlined in the May 2010 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0).* The northeast portion of the site is currently developed with your single-family residence and the remainder of the site is mostly mowed yard.

One stream (Stream 1) was previously identified in the southwest portion of the site as part of a Critical Areas Designation (CADS16-0163) and was delineated as part of our recent site review. **Attachment A** contains data sheets prepared for representative locations in the uplands on the site. These data sheets document the vegetation, soils, and hydrology information that aided in the no wetland determination for these areas.

Stream 1

Stream 1 drains from south to north through the southwest portion of the site. The stream contains a narrow riparian fringe vegetated with red alder (*Alnus rubra*), western red cedar (*Thuja plicata*), salmonberry (*Rubus spectabilis*), Himalayan blackberry (*Rubus armeniacus*), and creeping buttercup (*Ranunculus repens*).

Stream 1 was previously approved as a Type F stream and requires a standard 165-foot buffer and 15-foot structure setback.

Dirk Nevelle February 13, 2023 Page 2

If you have any questions regarding the delineation, please give me a call.

Sincerely,

ALTMANN OLIVER ASSOCIATES, LLC

John altman

John Altmann Ecologist

Attachments



PO Box 578 Carnation, WA 98014 Office (425) 333-4535 Fax (425) 333-4509

AOA - 6678

AOA Environmental Planning & Landscape Architecture

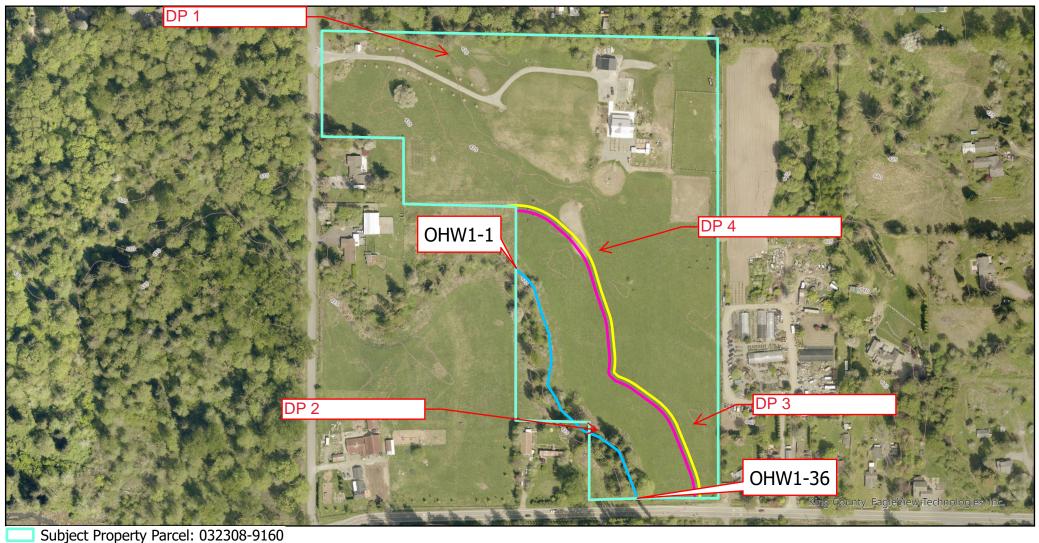
King County Parcel 032308-9160

Approximate OHW Type F Stream

Approximate 165' Stream Buffer

Approximate 15' Building Setback

Critical Areas Map





Project Site:	Parcel 03	32308-	<u>9160</u>			С	ity/County:		/King	1		Sampling D	Date:	<u>2-1</u> -	23	
Applicant/Owner:	Nevelle									State:	WA	Sampling F	oint:	DP#	<i>‡</i> 1	
Investigator(s):	John Altn	nann, .	Jason Panzera,	Dain A	<u>ltmann</u>			Se	ection,	Towns	hip, Rang	je: <u>S3, T23</u>	<u>8N, R8E</u>			
Landform (hillslope, ter	race, etc.): _				Local relie	ef (concave	, conve	x, non	e): <u>(</u>	concave		Slop	be (%):		_
Subregion (LRR):	<u>A</u>			Lat	t: <u>47.50535</u>			Long:	<u>-121.7</u>	7771			Datum:	NAD8	<u>3</u>	
Soil Map Unit Name:	<u>236, 53</u>									I	NWI class	sification:	PFOC			
Are climatic / hydrologi	c conditio	ns on t	he site typical fo	or this t	ime of year?	Yes	\boxtimes	No		(lf no,	explain ir	n Remarks.)				
Are Vegetation 🛛 🔀,	Soil	□,	or Hydrology	□,	significantly dis	turbed?	Are "Nor	mal Cir	cumst	ances"	present?		Yes	\boxtimes	No	
Are Vegetation	Soil	□,	or Hydrology	□,	naturally proble	ematic?	(If neede	ed, expl	ain an	y answ	ers in Re	marks.)				

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

Hydrophytic Vegetation Present?	Yes	No	Ø				
Hydric Soil Present?	Yes	No		Is the Sampled Area within a Wetland?	Yes	No	\boxtimes
Wetland Hydrology Present?	Yes	No	\boxtimes				
Remarks: upland area, see map							

<u>Tree Stratum</u> (Plot size: <u>10'</u>)	Absolute <u>% Cover</u>	Dominant <u>Species?</u>	Indicator <u>Status</u>	Dominance Test Worksheet:		
1. <u>Acer macrophyllum</u>	<u>100</u>	<u>yes</u>	FACU	Number of Dominant Species	<u>2</u>	(A)
2. <u>Prunus emarignata</u>	<u>50</u>	<u>yes</u>	FACU	That Are OBL, FACW, or FAC:	<u> </u>	(A)
3. <u>Thuja plicata</u>	<u>10</u>	no	FAC	Total Number of Dominant	<u>6</u>	(B)
4				Species Across All Strata:	<u>u</u>	(D)
50% = <u>80</u> , 20% = <u>32</u>	<u>160</u>	= Total Cove	er	Percent of Dominant Species	33.3	(A/B)
Sapling/Shrub Stratum (Plot size: <u>10'</u>)				That Are OBL, FACW, or FAC:	<u>33.3</u>	(7,0)
1. <u>Rubus armeniacus</u>	<u>40</u>	<u>yes</u>	FAC	Prevalence Index worksheet:		
2. <u>Symphoricarpos albus</u>	<u>20</u>	<u>yes</u>	FACU	Total % Cover of:	Multiply by:	
3				OBL species	x1 =	
l				FACW species	x2 =	
5				FAC species	x3 =	
50% = <u>30</u> , 20% = <u>12</u>	<u>60</u>	= Total Cove	er	FACU species	x4 =	
<u>Herb Stratum (</u> Plot size: <u>10'</u>)				UPL species	x5 =	
1. <u>unidentified mowed lawn</u>	<u>40</u>	<u>yes</u>		Column Totals:(A)		(B)
2. <u>Ranunculus repens</u>	<u>20</u>	yes	FAC	Prevalence Index = B/	A =	
3. <u>Taraxacum officinale</u>	<u>10</u>	no	FACU	Hydrophytic Vegetation Indicators:		
4				1 – Rapid Test for Hydrophytic Veg	etation	
5				□ 2 - Dominance Test is >50%		
S				□ 3 - Prevalence Index is $\leq 3.0^1$		
				4 - Morphological Adaptations ¹ (Pro	vide supporting	
3				data in Remarks or on a separat		
)				5 - Wetland Non-Vascular Plants ¹		
10				Problematic Hydrophytic Vegetation	1 ¹ (Explain)	
1.				, , , , , , , , , , , , , , , , , , , ,	()	
50% = <u>35,</u> 20% = <u>14</u>	70	= Total Cove	er	¹ Indicators of hydric soil and wetland hydric be present, unless disturbed or problemation		
<u>Noody Vine Stratum (</u> Plot size: <u>10'</u>)				be present, unless disturbed of problema	uc.	
1						
2.				Hydrophytic		
50% =, 20% =		= Total Cove	er	Vegetation Yes	□ No	
% Bare Ground in Herb Stratum				Present?		

SOIL

SOIL								Sampling Point: [<u>)P#5</u>			
Profile I	Description: (Describe to	the depth	needed to de	ocument the indica	tor or confi	rm the absenc	e of indicate	ors.)				
Dept	th Matrix			Redox Fea	atures							
(inches)) Color (moist)	%	Color (mo	ist) %	Type ¹	Loc ²	Texture		Rem	narks		
<u>0-16</u>	<u>6 10 YR 4/4</u>	<u>100</u>					gravel lo	<u>am</u>				
	C= Concentration, D=Deplet	,		,	oated Sand	Grains. ² L		Pore Lining, M=Mat				
-	Soil Indicators: (Applicabl	le to all LF						ators for Problema		ric Soi	ls³:	
	istosol (A1)			Sandy Redox (S5)				2 cm Muck (A10)				
🗆 Hi	istic Epipedon (A2)			Stripped Matrix (S6	5)			Red Parent Mate	rial (TF2))		
🗆 ві	lack Histic (A3)			Loamy Mucky Mine	eral (F1) (ex	cept MLRA 1)		Very Shallow Dar	k Surface	e (TF1	2)	
	ydrogen Sulfide (A4)			Loamy Gleyed Mat	rix (F2)			Other (Explain in	Remarks	5)		
	epleted Below Dark Surface	e (A11)		Depleted Matrix (F3	3)							
TI 🗌	hick Dark Surface (A12)			Redox Dark Surfac	e (F6)							
🗆 Sa	andy Mucky Mineral (S1)			Depleted Dark Surf	ace (F7)			cators of hydrophytic etland hydrology mu			d	
🔲 Sa	andy Gleyed Matrix (S4)			Redox Depressions	s (F8)			nless disturbed or pr				
Restrict	tive Layer (if present):											
Type:												
Depth (i	nches):					Hydric Soils	Present?	Ye	es 🗆		No	\boxtimes
Remark	s:											

Wetl	and Hydrology Indicate	ors:						
Prima	ary Indicators (minimum	of one re	quired;	check	all that	apply)	Sec	ondary Indicators (2 or more required)
	Surface Water (A1)					Water-Stained Leaves (B9)		Water-Stained Leaves (B9)
	High Water Table (A2)					(except MLRA 1, 2, 4A, and 4B)		(MLRA 1, 2, 4A, and 4B)
	Saturation (A3)					Salt Crust (B11)		Drainage Patterns (B10)
	Water Marks (B1)					Aquatic Invertebrates (B13)		Dry-Season Water Table (C2)
	Sediment Deposits (B2	2)				Hydrogen Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)
	Drift Deposits (B3)					Oxidized Rhizospheres along Living Roots (C3)	3) 🗆	Geomorphic Position (D2)
	Algal Mat or Crust (B4)				Presence of Reduced Iron (C4)		Shallow Aquitard (D3)
	Iron Deposits (B5)					Recent Iron Reduction in Tilled Soils (C6)		FAC-Neutral Test (D5)
	Surface Soil Cracks (B	6)			Stunted or Stresses Plants (D1) (LRR A)		Raised Ant Mounds (D6) (LRR A)	
	Inundation Visible on A	erial Ima	agery (E	87)		Other (Explain in Remarks)		Frost-Heave Hummocks (D7)
	Sparsely Vegetated Co	oncave S	urface	(B8)				
Field	Observations:							
Surfa	ce Water Present?	Yes		No	\boxtimes	Depth (inches):		
Wate	r Table Present?	Yes		No	\boxtimes	Depth (inches):		
	ation Present? des capillary fringe)	Yes		No	\boxtimes	Depth (inches): Wet	etland Hy	drology Present? Yes 🗌 No 🛛
Desc	ribe Recorded Data (stre	eam gau	ge, mor	nitoring	well, a	erial photos, previous inspections), if available:		
Rem	arks: Dry							

Project Site:	Parcel 03	2308-9	9160			Ci	ty/County:		/King	1		Sampling D	Date:	<u>2-1</u> -	-23	
Applicant/Owner:	Nevelle									State:	WA	Sampling F	oint:	DP	<u> #2</u>	
Investigator(s):	John Altn	nann, J	ason Panzera,	Dain A	<u>ltmann</u>			Se	ection,	Towns	hip, Rang	je: <u>S3, T23</u>	<u>3N, R8E</u>			
Landform (hillslope, te	rrace, etc.)):				Local relie	ef (concave	, conve	ex, non	e):	<u>concave</u>		Slop	e (%):		_
Subregion (LRR):	<u>A</u>			La	t: <u>47.50535</u>			Long:	-121.7	7771			Datum:	NAD8	<u>3</u>	
Soil Map Unit Name:	<u>236, 53</u>										NWI class	sification:	PFOC			
Are climatic / hydrolog	c conditio	ns on t	he site typical fo	or this t	ime of year?	Yes	\boxtimes	No		(lf no,	explain ir	n Remarks.)				
Are Vegetation ,	Soil	□,	or Hydrology	□,	significantly dis	turbed?	Are "Nor	mal Ci	rcumst	ances"	present?		Yes	\boxtimes	No	
Are Vegetation	Soil	□,	or Hydrology	□,	naturally proble	matic?	(If neede	ed, expl	ain an	y answ	ers in Re	marks.)				

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

Hydrophytic Vegetation Present?	Yes	No	\boxtimes				
Hydric Soil Present?	Yes	No		Is the Sampled Area within a Wetland?	Yes	No	\boxtimes
Wetland Hydrology Present?	Yes	No	\boxtimes				
Remarks: Located in upland off of OHW 1-24							

VEGETATION – Use scientific names of plants Absolute Dominant Indicator Tree Stratum (Plot size: 10') Dominance Test Worksheet: % Cover Species? Status 1. Thuja plicata 100 FAC yes Number of Dominant Species 2 (A) That Are OBL, FACW, or FAC: 2. 3. Total Number of Dominant 4 (B) Species Across All Strata: 4. 50% = <u>50</u>, 20% = <u>20</u> 100 = Total Cover Percent of Dominant Species (A/B) 50 That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: 10') 1. Rubus laciniatus FACU Prevalence Index worksheet: 2 yes 2. Oemleria cerasiformis FACU Total % Cover of: 1 <u>yes</u> Multiply by: 3. OBL species x1 = 4. **FACW** species x2 = FAC species 5. x3 = <u>190</u> <u>570</u> 50% = <u>1.5</u>, 20% = <u>0.6</u> FACU species x4 = 3 = Total Cover 13 <u>52</u> Herb Stratum (Plot size: 10') UPL species x5 = 1. Ranunculus repens <u>90</u> <u>yes</u> FAC Column Totals: <u>203</u> (A) 622 (B) 2. Taraxacum officinale FACU <u>5</u> Prevalence Index = B/A = 3.06no 3. Geranium robertianum 5 FACU Hydrophytic Vegetation Indicators: no 4. 1 – Rapid Test for Hydrophytic Vegetation 5. _____ 2 - Dominance Test is >50% 6. 3 - Prevalence Index is <3.01 7. 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 8. ____ 9. 5 - Wetland Non-Vascular Plants¹ 10. Problematic Hydrophytic Vegetation¹ (Explain) 11. _____ ¹Indicators of hydric soil and wetland hydrology must 50% = , 20% = = Total Cover be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: 10') 1. Hydrophytic 2. Vegetation \boxtimes Yes No 50% = ____, 20% = ____ = Total Cover Present? % Bare Ground in Herb Stratum Remarks:

SOIL

SOI	L								Samplir	ng Point: <u>DP</u> #	<u> </u>		
Prof	ile Desc	ription: (Describe t	o the depth	needed to d	ocument the indi	icator or confir	m the absenc	e of indicat	ors.)				
D	Depth	Matrix			Redox	Features							
(incl	hes)	Color (moist)	%	Color (mo	oist) %	Type ¹	Loc ²	Texture		l	Remarks	;	
(0-16	<u>10 YR 3/2</u>	100					sandy o	lay	_			
_										_			
_										_			
_										_			
_										_			
_										_			
_										_			
_										_			
¹Тур	e: C= Co	ncentration, D=Dep	letion, RM=I	Reduced Matr	ix, CS=Covered o	r Coated Sand	Grains. ² L	ocation: PL	=Pore Lining,	, M=Matrix			
Hyd	ric Soil I	ndicators: (Applica	ble to all L	RRs, unless	otherwise noted.)		Indi	cators for Pi	roblematic H	lydric S	oils³:	
	Histoso	l (A1)			Sandy Redox (S	65)			2 cm Muc	k (A10)			
	Histic E	pipedon (A2)			Stripped Matrix	(S6)			Red Pare	nt Material (1	F2)		
	Black F	listic (A3)			Loamy Mucky N	lineral (F1) (exc	ept MLRA 1)		Very Shal	low Dark Su	rface (TF	12)	
	Hydrog	en Sulfide (A4)			Loamy Gleyed N	Matrix (F2)			Other (Ex	plain in Rem	arks)		
	Deplete	ed Below Dark Surfa	ce (A11)		Depleted Matrix	(F3)							
	Thick D	ark Surface (A12)			Redox Dark Sur	face (F6)							
	Sandy	Mucky Mineral (S1)			Depleted Dark S	Surface (F7)			icators of hyd vetland hydro				
	Sandy	Gleyed Matrix (S4)			Redox Depressi	ons (F8)			inless disturb			,	
Rest	trictive L	ayer (if present):											
Туре	e:												
Dept	th (inches	s):					Hydric Soils I	Present?		Yes		No	\boxtimes
Rem	narks:	No redoximorphic fe	eatures										

Wetla	Vetland Hydrology Indicators:											
Prima	ary Indicators (minimum	of one re	equired	; check	all tha	apply)	Se	econdary Indicators (2 or	more requir	ed)		
	Surface Water (A1)					Water-Stained Leaves (B9)		Water-Stained Leave	s (B9)			
	High Water Table (A2))				(except MLRA 1, 2, 4A, and 4B)		(MLRA 1, 2, 4A, and	4B)			
	Saturation (A3)					Salt Crust (B11)		Drainage Patterns (B	10)			
	Water Marks (B1)					Aquatic Invertebrates (B13)		Dry-Season Water Ta	able (C2)			
	Sediment Deposits (B	2)				Hydrogen Sulfide Odor (C1)		Saturation Visible on	Aerial Image	ery (C9)	
	Drift Deposits (B3)					Oxidized Rhizospheres along Living Roots (C3)	5) (Geomorphic Position	(D2)			
	Algal Mat or Crust (B4)					Shallow Aquitard (D3)				
	Iron Deposits (B5)		FAC-Neutral Test (D5)									
	Surface Soil Cracks (E	36)				Raised Ant Mounds (D6) (LRR A)						
	Sparsely Vegetated C	oncave S	Surface	(B8)								
Field	Observations:											
Surfa	ce Water Present?	Yes		No	\boxtimes	Depth (inches):						
Wate	r Table Present?	Yes		No	\boxtimes	Depth (inches):						
	ation Present? des capillary fringe)	Yes		No	\boxtimes	Depth (inches): We	tland H	ydrology Present?	Yes		No	
Desc	ribe Recorded Data (str	eam gau	ge, mor	nitoring	well, a	erial photos, previous inspections), if available:						
Rem	Remarks: Dry											

Project Site:	Parcel 03	32308-9	9160			С	ity/County:		/King	1	Sampling D	Date:	<u>2-1-</u>	23	
Applicant/Owner:	Nevelle									State: <u>WA</u>	Sampling F	oint:	DP#	<u>#3</u>	
Investigator(s):	John Altn	nann, J	lason Panzera,	Dain A	<u>ltmann</u>			Se	ection,	Township, Ran	ge: <u>S3, T23</u>	<u>8N, R8E</u>			
Landform (hillslope, ter	rrace, etc.):				Local reli	ef (concave	e, conve	ex, nor	ie): <u>concave</u>		Slop	be (%):		
Subregion (LRR):	<u>A</u>			La	t: <u>47.50535</u>			Long:	<u>-121.</u>	7771		Datum:	NAD8	<u>3</u>	
Soil Map Unit Name:	<u>236, 53</u>									NWI clas	sification:	PFOC			
Are climatic / hydrologi	c conditio	ns on t	he site typical fo	or this t	ime of year?	Yes	\boxtimes	No		(If no, explain i	n Remarks.)				
Are Vegetation 🛛 🔀,	Soil	□,	or Hydrology	□,	significantly dis	sturbed?	Are "No	rmal Ci	rcumst	ances" present	?	Yes	\bowtie	No	
Are Vegetation	Soil	□,	or Hydrology	□,	naturally proble	ematic?	(If neede	ed, exp	ain an	y answers in Re	emarks.)				

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

Hydrophytic Vegetation Present?	Yes	No					
Hydric Soil Present?	Yes	No		Is the Sampled Area within a Wetland?	Yes	No	\boxtimes
Wetland Hydrology Present?	Yes	No	\boxtimes				
Remarks: Located in upland area, see map							

VEGETATION – Use scientific names of plants

<u>Tree Stratum</u> (Plot size: <u>10'</u>)	Absolute <u>% Cover</u>	Dominant Species?	Indicator <u>Status</u>	Dominance Test Worksheet:
1				Number of Dominant Species (A)
2				That Are OBL, FACW, or FAC:
3				Total Number of Dominant (B)
4				Species Across All Strata:
50% =, 20% =		= Total Cover		Percent of Dominant Species (A/B)
Sapling/Shrub Stratum (Plot size: 10')				That Are OBL, FACW, or FAC:
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x1 =
4				FACW species x2 =
5				FAC species x3 =
50% =, 20% =		= Total Cover		FACU species x4 =
<u>Herb Stratum (</u> Plot size: <u>10'</u>)				UPL species x5 =
1. unidentified mowed lawn	<u>100</u>	yes		Column Totals:(A)(B)
2. <u>ranunculus repens</u>	<u>10</u>	<u>no</u>	FAC	Prevalence Index = B/A =
3				Hydrophytic Vegetation Indicators:
4				1 – Rapid Test for Hydrophytic Vegetation
5				□ 2 - Dominance Test is >50%
6				\Box 3 - Prevalence Index is $\leq 3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11				
50% =, 20% =		= Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 10')				
1				
2				Hydrophytic
50% =, 20% =		= Total Cover		Vegetation Yes □ No ⊠ Present?
% Bare Ground in Herb Stratum				
Remarks:				

SOIL

SOI	L								Sampl	ing Point: <u>DP</u>	<u>#3</u>		
Prof	ile Descr	iption: (Describe t	o the depth	n needed to d	ocument the in	dicator or confi	rm the absend	ce of indicat	tors.)				
D	epth	Matrix			Redo	x Features							
(incł	nes)	Color (moist)	%	Color (mo	oist) %	Type ¹	Loc ²	Texture	9	Remarks			
(0-16	<u>10 YR 5/3</u>	100					sandy lo	bam	_			
_										_			
_										_			
_			<u> </u>							_			
_			<u> </u>							_			
_										_			
_			<u> </u>							_			
_			<u> </u>							_			
¹Тур	¹ Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix												
Hydı	ric Soil Ir	dicators: (Applica	ble to all L	RRs, unless o	otherwise noted		Indi	cators for F	Problematic	Hydric S	Soils ³ :		
	Histoso	(A1)			Sandy Redox	(S5)			2 cm Mu	ck (A10)			
	Histic E	pipedon (A2)			Stripped Matrix	k (S6)			Red Par	TF2)			
	Black H	istic (A3)			Loamy Mucky	Mineral (F1) (ex	cept MLRA 1)		Very Sha	allow Dark Su	irface (T	F12)	
	Hydroge	en Sulfide (A4)			Loamy Gleyed	Matrix (F2)	Other (Explain in Remarks)						
	Deplete	d Below Dark Surfa	ce (A11)		Depleted Matri	x (F3)							
	Thick D	ark Surface (A12)			Redox Dark Su	urface (F6)							
	Sandy M	/lucky Mineral (S1)			Depleted Dark	Surface (F7)				drophytic veo ology must b			
	Sandy 0	Gleyed Matrix (S4)			Redox Depres	sions (F8)				bed or proble		it,	
Rest	rictive L	ayer (if present):											
Туре	e:												
Dept	Depth (inches):							Present?		Yes		No	\boxtimes
Rem	arks:												

Wetla	Wetland Hydrology Indicators:														
Prima	ary Indicators (minimum	of one re	equired	; check	all tha	apply)	Se	Secondary Indicators (2 or more required)							
	Surface Water (A1)					Water-Stained Leaves (B9)		Water-Stained Leaves (B9)							
	High Water Table (A2)					(except MLRA 1, 2, 4A, and 4B)		(MLRA 1, 2, 4A, and 4B)							
	Saturation (A3)					Salt Crust (B11)		Drainage Patterns (B10)							
	Water Marks (B1)					Aquatic Invertebrates (B13)		Dry-Season Water Table (C2)							
	Sediment Deposits (B2)					Hydrogen Sulfide Odor (C1)		Saturation Visible on	Saturation Visible on Aerial Imagery (C9)						
	Drift Deposits (B3)					Oxidized Rhizospheres along Living Roots (C3)	5) (Geomorphic Position (D2)							
	Algal Mat or Crust (B4)					Presence of Reduced Iron (C4)		Shallow Aquitard (D3))						
	Iron Deposits (B5)					Recent Iron Reduction in Tilled Soils (C6)		FAC-Neutral Test (D5)							
	Surface Soil Cracks (E	36)				Stunted or Stresses Plants (D1) (LRR A)		Raised Ant Mounds (I	D6) (LRR A)					
	Inundation Visible on Aerial Imagery (B7)					Other (Explain in Remarks)		Frost-Heave Hummo	cks (D7)						
Sparsely Vegetated Concave Surface (B8)															
Field	Observations:														
Surfa	ce Water Present?	Yes		No	\boxtimes	Depth (inches):									
Wate	r Table Present?	Yes		No	\boxtimes	Depth (inches):									
	ation Present? des capillary fringe)	Yes		No	\boxtimes	Depth (inches): We	etland H	land Hydrology Present? Yes 🔲 No 🛛							
Desc	ribe Recorded Data (str	eam gau	ge, mor	nitoring	well, a	erial photos, previous inspections), if available:									
Rem	arks: Dry														

Project Site:	Parcel 03	32308-9	9160			С	ity/County:		/King	1		Sampling [Date:	<u>2-1-</u>	23	
Applicant/Owner:	Nevelle									State:	WA	Sampling F	Point:	DP#	<u>‡4</u>	
Investigator(s): John Altmann, Jason Panzera, Dain Altmann								Se	ection,	Towns	hip, Rang	je: <u>S3, T23</u>	<u>3N, R8E</u>			
Landform (hillslope, ter	Local relief (concave, convex, none): <u>concave</u>							Slope (%):								
Subregion (LRR):	<u>A</u>			Lat	: <u>47.50535</u>			Long:	<u>-121.7</u>	7771			Datum:	NAD8	<u>3</u>	
Soil Map Unit Name:	<u>236, 53</u>										NWI class	sification:	PFOC			
Are climatic / hydrologi	c conditio	ns on t	he site typical fo	or this t	ime of year?	Yes	\boxtimes	No		(lf no,	explain ir	n Remarks.)				
Are Vegetation 🛛 🔀,	Soil	□,	or Hydrology	□,	significantly dis	sturbed?	Are "Nor	rmal Ci	rcumsta	ances"	present?		Yes	\bowtie	No	
Are Vegetation	Soil	□,	or Hydrology	□,	naturally proble	ematic?	(If neede	ed, expl	ain an	y answ	ers in Re	marks.)				

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

Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes	No No	Is the Sampled Area	Yes	No	X
Wetland Hydrology Present?	Yes	No	within a Wetland?	103	NO	
Remarks: Located in upland area, see map						

VEGETATION – Use scientific names of plants

<u>Tree Stratum</u> (Plot size: <u>10'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:
1				Number of Dominant Species
2				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant (B)
4				Species Across All Strata:
50% =, 20% =		= Total Cover		Percent of Dominant Species (A/B)
Sapling/Shrub Stratum (Plot size: 10')				That Are OBL, FACW, or FAC:
1				Prevalence Index worksheet:
2				Total % Cover of: Multiply by:
3				OBL species x1 =
4				FACW species x2 =
5			<u> </u>	FAC species x3 =
50% =, 20% =		= Total Cover		FACU species x4 =
<u>Herb Stratum (</u> Plot size: <u>10'</u>)				UPL species x5 =
1. <u>unidentified mowed lawn</u>	<u>100</u>	<u>yes</u>		Column Totals:(A)(B)
2				Prevalence Index = B/A =
3				Hydrophytic Vegetation Indicators:
4				1 – Rapid Test for Hydrophytic Vegetation
5				□ 2 - Dominance Test is >50%
6				\Box 3 - Prevalence Index is $\leq 3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11				
50% =, 20% =		= Total Cover		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: <u>10'</u>)				
1				
2				Hydrophytic Vegetation Yes □ No ⊠
50% =, 20% =		= Total Cover		Vegetation Yes □ No ⊠ Present?
% Bare Ground in Herb Stratum				
Remarks:				

SOIL

SOI	L									Sampli	ng Point: <u>DP</u>	#4					
Prof	ile Descr	iption: (Describe t	o the depth	n needed to d	ocument the in	dicator or conf	irm the absen	ce of inc	dicato	ors.)							
D	epth	Matrix			Redo	x Features											
(incł	nes)	Color (moist)	%	Color (mo	oist) %	Type ¹	Loc ²	Te	xture		Remarks						
(0-16	<u>10 YR 5/3</u>	100					san	<u>sandy loam</u>		_						
_								-			_						
_								-			_						
_								-			_						
_								-			_						
_						<u> </u>		-		·	_						
_								_			_						
_								-			_						
¹Тур	¹ Type: C= Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix																
Hydı	ric Soil Ir	dicators: (Applica	ble to all L	RRs, unless o	d.)			Indic	ators for P	roblematic	Hydric S	Soils³:					
	Histoso	(A1)			Sandy Redox	(S5)			\boxtimes	2 cm Muo	ck (A10)						
	Histic E	pipedon (A2)			Stripped Matri	x (S6)				Red Pare	nt Material (TF2)					
	Black H	istic (A3)			Loamy Mucky	Mineral (F1) (ex	(cept MLRA 1))		Very Sha	llow Dark Su	rface (T	F12)				
	Hydroge	en Sulfide (A4)			Loamy Gleyed	l Matrix (F2)	Other (Explain in Remarks)										
	Deplete	d Below Dark Surfa	ce (A11)		Depleted Matr	pleted Matrix (F3)											
	Thick D	ark Surface (A12)			Redox Dark S	urface (F6)											
	Sandy M	/lucky Mineral (S1)			Depleted Dark	Surface (F7)					drophytic veg blogy must b						
	Sandy 0	Gleyed Matrix (S4)			Redox Depres	sions (F8)					biogy must b bed or proble		it,				
Rest	rictive L	ayer (if present):															
Туре	e:																
Dept	Depth (inches):							Presen	t?		Yes		No	\boxtimes			
Rem	arks:																

Wetla	Wetland Hydrology Indicators:														
Prima	ary Indicators (minimum	of one re	equired	; check	all tha	apply)	Se	Secondary Indicators (2 or more required)							
	Surface Water (A1)					Water-Stained Leaves (B9)		Water-Stained Leaves (B9)							
	High Water Table (A2)					(except MLRA 1, 2, 4A, and 4B)		(MLRA 1, 2, 4A, and 4B)							
	Saturation (A3)					Salt Crust (B11)		Drainage Patterns (B10)							
	Water Marks (B1)					Aquatic Invertebrates (B13)		Dry-Season Water Table (C2)							
	Sediment Deposits (B2)					Hydrogen Sulfide Odor (C1)		Saturation Visible on	Saturation Visible on Aerial Imagery (C9)						
	Drift Deposits (B3)					Oxidized Rhizospheres along Living Roots (C3)	5) (Geomorphic Position (D2)							
	Algal Mat or Crust (B4)					Presence of Reduced Iron (C4)		Shallow Aquitard (D3))						
	Iron Deposits (B5)					Recent Iron Reduction in Tilled Soils (C6)		FAC-Neutral Test (D5)							
	Surface Soil Cracks (E	36)				Stunted or Stresses Plants (D1) (LRR A)		Raised Ant Mounds (I	D6) (LRR A)					
	Inundation Visible on Aerial Imagery (B7)					Other (Explain in Remarks)		Frost-Heave Hummo	cks (D7)						
Sparsely Vegetated Concave Surface (B8)															
Field	Observations:														
Surfa	ce Water Present?	Yes		No	\boxtimes	Depth (inches):									
Wate	r Table Present?	Yes		No	\boxtimes	Depth (inches):									
	ation Present? des capillary fringe)	Yes		No	\boxtimes	Depth (inches): We	etland H	land Hydrology Present? Yes 🔲 No 🛛							
Desc	ribe Recorded Data (str	eam gau	ge, mor	nitoring	well, a	erial photos, previous inspections), if available:									
Rem	arks: Dry														