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Wetland Delineation Report for Altman Property Mercer Island, Washington

August 26, 2020

Prepared for:

Mr. George Steirer Plan to Permit LLC 7233 Douglas Ave SE Snoqualmie WA 98065

Prepared by:

Suzanne Tomassi, MSc, PWS, CWB Avia Environmental Consulting Suzanne@AviaEnvironmental.com

Project location:

Address: East Mercer Way. Mercer Island, WA Parcel(s): 3024059213, 3024059001, 3024059151

Table of Contents

1	Ir	ntro	duct	tion	.1
2	Р	roje	ct A	rea	.1
3	٨	⁄leth	ods		.2
	3.1	١	Docı	umentation	.2
	3.2	ı	Field	d Study	.2
4	F	indir	ngs		.2
	4.1	ı	Docı	ument Review	.2
	4.2			Investigation	
	4	.2.1		Wetland	
	4	.2.2		Non-Wetland Area	
	-	.2.3		Bald Eagle Habitat	
5				ry Implications	
Э					
	5.1	I	Loca	al Regulations	.5
	5.2	9	State	e and Federal Regulations	.5

Figure 1. Subject properties. Features are approximate and not to scale. Source: King County iMap 1

Appendices

Appendix A: Site Photographs

Appendix B: Wetland Rating Form

Appendix C: Wetland Determination Forms

1 Introduction

Avia Environmental performed a wetland delineation on the Altman properties (parcels 3024059213, 3024059001, and 3024059151) in the East Mercer Way area of Mercer Island (Figure 1) on May 15, 2020. The study revealed a single wetland on the westernmost property, parcel 3024059213 (Lot 7). This wetland is described in the following text and figures.



Figure 1. Subject properties. Features are approximate and not to scale. Source: King County iMap

2 Project Area

The subject properties are located in the southeast quarter of Mercer Island. The island is within the upper tributary basin of Lake Washington, Water Resource Inventory Area (WRIA) 8. All three parcels are presently undeveloped with the exception of a trail, part of the adjacent Pioneer Park, running eastwest through roughly the center of Lot 7. A stream is located south of the trail, paralleling it through the property.

All parcels are heavily wooded except for a cleared area in the northwest corner of the easternmost parcel. Two large, forested public areas, Pioneer Park and Engstrom Open Space, are immediately west and south of Lot 7. The remainder of the vicinity is primarily developed single-family lots, with a few vacant wooded properties. Lake Washington is approximately 0.13 mile east of the parcels at its nearest point, and approximately 0.3 miles from Lot 7.

3 METHODS

3.1 Documentation

A documentation search was conducted and included local inventories, the Washington Department of Fish and Wildlife (WDFW) Priority Habitats and Species (PHS) database, state and federal threatened and endangered species lists, the National Wetland Inventory (NWI), WDFW's SalmonScape database, and Natural Resources Conservation Service (NRCS) maps.

3.2 Field Study

Methodology used for wetland determination was that of the Washington State Department of Ecology's (Ecology) *Wetland Identification and Delineation Manual* (Manual) and *Western Mountains, Valleys, and Coast Regional Supplement*. Soil, hydrology, and vegetation were examined throughout the property to determine whether they fit criteria set forth in the Manual. Data were recorded at four of these points, marked with orange flagging. Wetland boundaries were marked with pink flagging. Wetlands were rated using Ecology's 2014 update of the Washington State Wetland Rating System for Western Washington. The stream on Lot 7 was not marked or categorized as part of this project.

4 FINDINGS

4.1 Document Review

A WDFW PHS data retrieval for this project depicted a biodiversity corridor encompassing the three parcels and extending west and south to include Pioneer Park and Engstrom Open Space. The nearest wetland on the PHS inventory is adjacent to Lake Washington to the east of the subject parcels. The NWI database depicts the stream spanning Lot 7 as a riparian wetland. SalmonScape depicts the stream crossing the parcel south of the trail but does not classify it or document use by salmonids.

NRCS Soil Survey categorizes soils on all three parcels as Kitsap silt loam, 15 to 30 percent slopes.

4.2 Field Investigation

4.2.1 Wetland

The only wetland identified during the site visit is located on Lot 7. Despite its presence in NWI data, the onsite portion of the stream and adjacent reaches has no wetlands associated with it. The wetland (Wetland A) boundary was marked with five pink flags.

Wetland A is a very small slope wetland entirely within the parcel boundary. It is vegetated primarily with lady fern (*Athyrium filix-femina*), horsetail (*Equisetum arvense*), and creeping buttercup (*Ranunculus repens*) under a canopy of red alder (*Alnus rubra*), bigleaf maple (*Acer macrophyllum*), and western red cedar (*Thuja plicata*) (Appendix A, Photo 1). Dense ivy (*Hedera helix*) covers much of the

wetland area. The Cowardin class is forested with an emergent ground stratum. The Western Washington Wetland Rating Form is included as Appendix B.

Soils in the wetland are dark gray (10 YR 4/1) silty loam with approximately 20% yellowish brown (10YR 5/6) redoximorphic features throughout, to at least 14-inch depth. Soils were damp but not saturated at the time of our site visit. Sparse oxidized rhizospheres were present. Wetland determination forms are included in Appendix C.

As noted, Wetland A is completely within parcel boundaries. It is north and uphill of the stream, separated from it by a heavily used recreational trail. Hydrology comes from a small, overgrown culvert in the hillside (Appendix A, Photo 2) and possibly also from runoff. Input is not heavy enough to have formed a defined bed or scour. There is no obvious outlet; rather water appears to infiltrate at the south end of the wetland. There is no evident hydrologic connection between the wetland and the stream, although a subsurface connection is possible. The position of the wetland above the stream would prevent any influence of the stream on the wetland, however.

Functional value of the onsite wetland is low for hydrology, as much of the upslope area is densely vegetated and down-gradient flooding is not a problem. Water quality function is slightly higher to the potential for stormwater to enter the wetland from a parking lot above the vegetative part of the buffer (Appendix A, Photo 3). Habitat provided by the wetland is moderate, largely due to the intact buffer and nearby priority habitats. The wetland itself is too small and not diverse enough in structure or plant community makeup to provide measureable habitat value beyond that of the surrounding area.

4.2.2 Non-Wetland Area

Non-wetland on the all parcels is mostly mid-age and mature mixed coniferous-deciduous forested dominated by Douglas fir (*Pseudotsuga menziesii*), western hemlock (*Tsuga heterophylla*), and bigleaf maple (*Acer macrophyllum*), with a dense understory of typical Pacific Northwest shrubs and forbs (Table 1). Soils outside of the wetland are brown to very dark brown (10YR 3/2, 10YR 2/2) silty loam with dark yellowish brown (10YR 4/6) redoximorphic features starting at 10 inches depth. Upland forest on Lot 7 is broken only by the previously noted trail and stream.

Table 1. Vegetative species identified on the study site (Lot 7)

Common name	Scientific name
Red alder	Alnus rubra
Western red cedar	Thuja plicata
Douglas-fir	Pseudotsuga menziesii
Western hemlock	Tsuga heterophylla
Bigleaf maple	Acer macrophyllum
Salal	Gaulthoria shallon
Osoberry	Oemleria cerasiformis
Salmonberry	Rubus spectbilis
Red huckleberry	Vaccinium parvifolium
Low Oregon grape	Mahonia nervosa
Cascara	Rhamnus purshiana
Beaked hazelnut	Corylus cornuta
Red elderberry	Sambucus racemosa
Thimbleberry	Rubus parviflorus
Himalayan blackberry*	Rubus ameniacus
Sword fern	Polystichum munitum
Robert's geranium	Geranium robertianum
Field horsetail	Equisetum arvense
Stinging nettle	Urtica dioica
Lady fern	Athyrium filix-femina
Creeping buttercup	Ranunculus repens

^{*}Non-native invasive species

4.2.3 Bald Eagle Habitat

Mercer Island supports a number of bald eagle breeding pairs, as well as perching and foraging habitat. City intake comments dated April 28, 2020, include a rough map of an eagle nest on the edge of Engstrom Open Space, along East Mercer Way. During the roughly 4-hour site visit, no eagles were observed visually or aurally from Lot 7, the parcel nearest the mapped nest (3024059213). A subsequent walk through the purported nest vicinity also resulted in no observations.

Eagles were heard calling repeatedly near the easternmost parcel (3024059151) during the morning hours. Calls were from the east, near Lake Washington, across East Mercer Way from the parcel. The lots between the road and the lake support a number of potential nest and perch trees (Appendix A, Photo 4). No eagles or nests were observed on these lots from public roads and private driveways in the area of the calls. The three subject parcels support potential eagle perch trees, as well as some trees that could potentially provide suitable nest sites in the future.

5 REGULATORY IMPLICATIONS

5.1 Local Regulations

The City of Mercer Island regulates wetlands through Mercer Island City Code (MICC) Chapter 19.07.190. The onsite wetland scores 15 points, including 6 habitat points, using the Western Washington Wetland Rating Form, making it a Category IV wetland. Category IV wetlands in the City of Mercer Island require standard regulatory buffers of 40 feet (MICC 19.07.190.C.1), within which most development activities are restricted. Critical areas require an additional building setback of 10 feet; this setback may be reduced to 5 feet for Category IV wetlands, provided criteria are met and protective measures taken (MICC19.07.190.C.7.a). It is not clear whether Wetland A fits these criteria, as MICC requires that any wetland with a building setback not contain habitat for WDFW Priority Species. While the wetland is within a PHS polygon, the polygon represents a "Biodiversity Area" and is not associated with a particular PHS species.

5.2 State and Federal Regulations

Wetlands are also regulated by the U.S. Army Corps of Engineers (Corps) under section 404 of the Clean Water Act. Any filling of Waters of the State, including wetlands (except isolated wetlands), would likely require notification and permits from the Corps. The onsite wetland would likely be considered non-isolated by the Corps. Federally permitted actions that could affect endangered species may also require consultation with the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service.

Please note that the findings of this report are subject to the verification and agreement of local, State and/or federal regulatory authorities. Determinations made by these entities may disagree with and will likely supersede the conclusions in this report.

Appendix A Photos



Photo 1: Wetland A.



Photo 2: Wetland A input drain.



Photo 3. Potential nest and perch trees between E Mercer Way and Lake Washington.

Appendix B Wetland Rating Form

RATING SUMMARY – Western Washington

Name of wetland (or I	D#): Altman pa	arcel 30240592	13			_	Date of site visit:	5/15/	2020
Rated by S Tomassi	, B MacWhinney	Tr	ained by E	cology?	Yes 🗆	No	Date of training	20	07
IGM Class used for	M	Slope Wetland has multiple HGM classes?			No				
			_	equested (figures	can b	e combined).		
OVERALL WETLA	ND CATEGORY		(based on	functions	□ orsp	ecial	characteristics D)	
1. Category of w	Category Category Category	I - Total score II - Total score III - Total scor	= 23 - 27 e = 20 - 22 re = 16 - 19			1	function based on three ratings		
FUNCTION		Hydrologic	Habitat			i	s not		
	List ap	propriate rating	(H, M, L)				20 18		
Site Potential				B:		5	9 = H, H, H		
andscape Potential	М	L	M	3		1	3 = H, H, M		
/alue	М	L	Н	Total	1	-	7 = H, H, L		
Score Based on Ratings	5	4	6	15		100			
					•	4	5 = M, M, M 5 = H, L, L 5 = M, M, L 4 = M, L, L		

2. Category based on SPECIAL CHARACTERISTICS of wetland

CHARACTERISTIC	Category
Estuarine	1
Wetland of High Conservation Value	Ù
Bog	
Mature Forest	
Old Growth Forest	Ĵ
Coastal Lagoon	
Interdunal	
None of the above	

3 = L, L, L

Maps and Figures required to answer questions correctly for Western Washington

Depressional Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	D 1.3, H 1.1, H 1.4	
Hydroperiods	D 1.4, H 1.2	3 63
Location of outlet (can be added to map of hydroperiods)	D 1.1, D 4.1	1
Boundary of area within 150 ft of the wetland (can be added to another figure)	D22, D52	1
Map of the contributing basin	D 4.3, D 5.3	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat	H21, H22, H23	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	D 3.1, D 3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	D 3.3	

Riverine Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	
Hydroperiods	H 1.2	
Ponded depressions	R 1.1	
Boundary of area within 150 ft of the wetland (can be added to another figure)	R 2.4	
Plant cover of trees, shrubs, and herbaceous plants	R 1.2, R 4.2	
Width of unit vs. width of stream (can be added to another figure)	R 4.1	1
Map of the contributing basin	R 2.2, R 2.3, R 5.2	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat	H21, H22, H23	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	R 3.1	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	R 3.2, R 3.3	

Lake Fringe Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	L 1.1, L 4.1, H 1.1, H 1.4	
Plant cover of trees, shrubs, and herbaceous plants	L 1.2	
Boundary of area within 150 ft of the wetland (can be added to another figure)	L22	
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat	H2.1, H2.2, H2.3	
Screen capture of map of 303(d) listed waters in basin (from Ecology website)	L3.1, L3.2	
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	L3.3	

Slope Wetlands

Map of:	To answer questions:	Figure #
Cowardin plant classes	H 1.1, H 1.4	1
Hydroperiods	H 1.2	1
Plant cover of dense trees, shrubs, and herbaceous plants	S 1.3	1
Plant cover of dense, rigid trees, shrubs, and herbaceous plants (can be added to another figure)	S 4.1	1
Boundary of area within 150 ft of the wetland (can be added to another figure)	S 2.1, S 5.1	1
1 km Polygon: Area that extends 1 km from entire wetland edge - including polygons for accessible habitat and undisturbed habitat	H2.1, H2.2, H2.3	2

Screen capture of map of 303(d) listed waters in basin (from Ecology website)	\$3.1, \$3.2	3
Screen capture of list of TMDLs for WRIA in which unit is found (from web)	\$33	- 4

HGM Classification of Wetland in Western Washington

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

1. Are th	ne water levels in the entire	unit usually controlled b	by tides except during floods?	
a	NO - go to 2	□ YES - the	e wetland class is Tidal Fringe - go to 1.1	
1.1	Is the salinity of the water	during periods of annua	al low flow below 0.5 ppt (parts per thousand)?	
Ø		ssified as a Freshwater ge it is an Estuarine w	☐ YES - Freshwater Tidal Fringe Tidal Fringe use the forms for Riverine wetland etland and is not scored. This method cannot be	
	ntire wetland unit is flat and vater and surface water run		source (>90%) of water to it. water to the unit.	
	NO - go to 3		☐ YES - The wetland class is Flats	
	If your wetland can be cla	ssified as a Flats wetlan	nd, use the form for Depressional wetlands.	
	the entire wetland unit mee The vegetated part of the plants on the surface at a At least 30% of the open of	wetland is on the shore: ny time of the year) at le	s of a body of permanent open water (without any east 20 ac (8 ha) in size;	•
3	NO - go to 4	□ YES - Th	e wetland class is Lake Fringe (Lacustrine Fring	e)
(a)	the entire wetland unit mee The wetland is on a slope The water flows through the may flow subsurface, as so The water leaves the wetl	(slope can be very grad ne wetland in one directi heetflow, or in a swale v	dual), ion (unidirectional) and usually comes from seep: without distinct banks.	s. It
п	NO - go to 5			
			nds except occasionally in very small and shallow <3 ft diameter and less than 1 ft deep).	8
	the entire wetland unit mee The unit is in a valley, or s from that stream or river,		eria? t gets inundated by overbank flooding	
	The overbank flooding oc	curs at least once every	2 years.	
	NO - go to 6		□ YES - The wetland class is Riverine	
NOTE: 1	he Riverine unit can contai	n depressions that are f	filled with water when the river is not flooding.	

- 6. Is the entire wetland unit in a topographic depression in which water ponds, or is saturated to the surface, at some time during the year? This means that any outlet, if present, is higher than the interior of the wetland.
 - NO go to 7
 YES The wetland class is Depressional
- 7. Is the entire wetland unit located in a very flat area with no obvious depression and no overbank flooding? The unit does not pond surface water more than a few inches. The unit seems to be maintained by high groundwater in the area. The wetland may be ditched, but has no obvious natural outlet.
 - NO go to 8
 YES The wetland class is Depressional
- 8. Your wetland unit seems to be difficult to classify and probably contains several different HGM classes. For example, seeps at the base of a slope may grade into a riverine floodplain, or a small stream within a Depressional wetland has a zone of flooding along its sides. GO BACK AND IDENTIFY WHICH OF THE HYDROLOGIC REGIMES DESCRIBED IN QUESTIONS 1-7 APPLY TO DIFFERENT AREAS IN THE UNIT (make a rough sketch to help you decide). Use the following table to identify the appropriate class to use for the rating system if you have several HGM classes present within the wetland unit being scored.

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

HGM class to use in rating
Riverine
Depressional
Lake Fringe
Depressional
Depressional
Riverine
Treat as ESTUARINE

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

SLOPE WETLANDS		
Water Quality Functions - Indicators that the site function	ns to improve water quality	
S 1.0. Does the site have the potential to improve water quality?	CONTRACTOR OF THE PROPERTY OF	
S 1.1. Characteristics of the average slope of the wetland: (a 1% slope in the levation for every 100 ft of horizontal distance)	has a 1 ft vertical drop in	
Slope is 1% or less Slope is > 1% - 2% Slope is > 2% - 5% Slope is greater than 5%	points = 3 points = 2 points = 1 points = 0	0
S 1.2. The soil 2 in below the surface (or duff layer) is true clay or true o (use NRCS definitions):	rganic Yes = 3 No = 0	0
S 1.3. Characteristics of the plants in the wetland that trap sediments an Choose the points appropriate for the description that best fits the plants means you have trouble seeing the soil surface (>75% cover), and uncumowed and plants are higher than 6 in.	in the wetland. Dense	
Dense, uncut, herbaceous plants > 90% of the wetland area Dense, uncut, herbaceous plants > ½ of area	points = 6 points = 3	2
Dense, woody, plants > ½ of area Dense, uncut, herbaceous plants > ¼ of area	points = 2 points = 1 points = 0	
Does not meet any of the criteria above for plants		

S 2.1. Is > 10% of the area within 150 ft on the uphill side of t land uses that generate pollutants?	he wetland in Yes = 1 N	o = 0	1
S 2.2. Are there other sources of pollutants coming into the want listed in question S 2.1?	vetland that are		1
Other Sources	Yes = 1 N	o = 0	
Total for S 2	Add the points in the boxes a	bove	2

Rating of Landscape Potential If score is: ☐ 1 - 2 = M ☐ 0 = L

Record the rating on the first page

S 3.1. Does the wetland discharge directly (i.e., within 1 mi) to a str lake, or marine water that is on the 303(d) list?		lo = 0	0
S 3.2. Is the wetland in a basin or sub-basin where water quality is a At least one aquatic resource in the basin is on the 303(d) list.	an issue? Yes = 1	lo = 0	1
S 3.3. Has the site been identified in a watershed or local plan as in maintaining water quality? Answer YES if there is a TMDL for the bushich the unit is found?		lo = 0	0
Total for S 3 Ad	d the points in the boxes	above	1

Rating of Value If score is: 2 - 4 = H 2 1 = M 2 0 = L

Record the rating on the first page

SLOPE WETLANDS	1,000	
Hydrologic Functions - Indicators that the site functions to reduce flo	oding and stream erosi	ion
S 4.0. Does the site have the potential to reduce flooding and stream erosion?	1	
S 4.1. Characteristics of plants that reduce the velocity of surface flows during points appropriate for the description that best fits conditions in the wetland. S should be thick enough (usually > 1/8 in), or dense enough, to remain erect d	tems of plants	1
Dense, uncut, rigid plants cover > 90% of the area of the wetland All other conditions	points = 1 points = 0	
Rating of Site Potential If score is: 1 = M 0 = L	Record the rating on th	e first pag
S 5.0. Does the landscape have the potential to support hydrologic functions of	of the site?	
S 5.1. Is more than 25% of the area within 150 ft upslope of wetland in land uses or cover that generate excess surface runoff?	Yes = 1 No = 0	0
Rating of Landscape Potential If score is: 1 = M 0 = L	Record the rating on th	e first pag
S 6.0. Are the hydrologic functions provided by the site valuable to society?		
S 6.1. Distance to the nearest areas downstream that have flooding problems	:	
The sub-basin immediately down-gradient of site has flooding problems that result in damage to human or natural resources (e.g., houses or salmon redds)	points = 2	0
Surface flooding problems are in a sub-basin farther down-gradient	points = 1	
No flooding problems anywhere downstream	points = 0	
S 6.2. Has the site been identified as important for flood storage or flood conveyance in a regional flood control plan?	Yes = 2 No = 0	0
Total for S 6 Add the point	s in the boxes above	0
Rating of Value If score is: 2 - 4 = H 1 1 = M 0 = L	Record the rating on th	e first pag

NOTES and FIELD OBSERVATIONS:

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

	pecial habitat features:						
Check th	ne habitat features that are present in the wetland. The number of checks is the	ne number					
of points							
STATE OF THE PARTY	Large, downed, woody debris within the wetland (> 4 in diameter and 6 ft lon	ia)					
	Standing snags (dbh > 4 in) within the wetland	'97					
Undercut banks are present for at least 6.6 ft (2 m) and/or overhanging plants extends							
-	at least 3.3 ft (1 m) over a stream (or ditch) in, or contiguous with the wetlan	CONTRACTOR STATE OF THE PARTY O					
	least 3.3 ft (10 m)	u, iti at	2				
CTR.	- 1988-1981 - NOSS 1- 1885 - NOSS 1-	for donning	2				
(3)	Stable steep banks of fine material that might be used by beaver or muskrat						
	(> 30 degree slope) OR signs of recent beaver activity are present (cut shru that have not yet weathered where wood is exposed)	os or trees					
779	- 1644 F (1651 B 1644 B 165 F 1645 B 165 F 165 F 165 B 165 F 165 F 165 B 165 F						
u	At least 1/4 ac of thin-stemmed persistent plants or woody branches are pres						
_	that are permanently or seasonally inundated (structures for egg-laying by a						
	Invasive plants cover less than 25% of the wetland area in every stratum of	plants (see					
-4-1 6	H 1.1 for list of strata)						
otal for		d the rating on the	6 e first ned				
aung o	Site Potential II Score is. [] 15-10-11 [] 1-14-m [] 0-0-L Necon	a the rating on the	o mai pag				
2.0. D	pes the landscape have the potential to support the habitat function of the site	?					
2.1 Ac	cessible habitat (include only habitat that directly abuts wetland unit).						
Calculate	9 i						
6	6 % undisturbed habitat + (% moderate & low intensity land uses /	2)=					
		10000					
	If total accessible habitat is:		0				
	> 1/3 (33.3%) of 1 km Polygon	points = 3					
	20 - 33% of 1 km Polygon	points = 2					
	10 - 19% of 1 km Polygon	points = 1					
		points = 0					
122 11	< 10 % of 1 km Polygon ndisturbed habitat in 1 km Polygon around the wetland.	points - 0					
	[19] (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						
Calculate		2011222					
23	% undisturbed habitat + (<u>26</u> % moderate & low intensity land uses /	2)=36%					
			2				
	Undisturbed habitat > 50% of Polygon	points = 3					
	12 200 22 30 10 30 30 20 50 20 50 20 10 20 20 50 50 50 50 50 50 50 50 50 50 50 50 50						
	Undisturbed habitat 10 - 50% and in 1-3 patches	points = 2					
	Undisturbed habitat 10 - 50% and > 3 patches	points = 2 points = 1					
	Undisturbed habitat 10 - 50% and > 3 patches Undisturbed habitat < 10% of 1 km Polygon	points = 2					
l 2.3 La	Undisturbed habitat 10 - 50% and > 3 patches Undisturbed habitat < 10% of 1 km Polygon nd use intensity in 1 km Polygon: If	points = 2 points = 1					
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WDFW Priority Habitats

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

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

Addressed elsewhere.

Wetland Rating System for W WA: 2014 Update Rating Form Eff. Jan 1, 20159

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

	Aspen Stands: Pure or mixed stands of aspen greater than 1 ac (0.4 ha).
П	Biodiversity Areas and Corridors: Areas of habitat that are relatively important to various species of native fish and wildlife (full descriptions in WDFW PHS report).
D	Herbaceous Balds: Variable size patches of grass and forbs on shallow soils over bedrock.
	Old-growth/Mature forests: Old-growth west of Cascade crest – Stands of at least 2 tree species, forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac (20 trees/ha) > 32 in (81 cm) dbh or > 200 years of age. Mature forests – Stands with average diameters exceeding 21 in (53 cm) dbh; crown cover may be less than 100%; decay, decadence, numbers of snags, and quantity of large downed material is generally less than that found in old-growth; 80-200 years old west of the Cascade crest.
0	Oregon White Oak: Woodland stands of pure oak or oak/conifer associations where canopy coverage of the oak component is important (full descriptions in WDFW PHS report p. 158 – see web link above).
D	Riparian: The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other.
п	Westside Prairies: Herbaceous, non-forested plant communities that can either take the form of a dry prairie or a wet prairie (full descriptions in WDFW PHS report p. 161 – see web link above).
0	Instream: The combination of physical, biological, and chemical processes and conditions that interact to provide functional life history requirements for instream fish and wildlife resources.
О	Nearshore: Relatively undisturbed nearshore habitats. These include Coastal Nearshore, Open Coast Nearshore, and Puget Sound Nearshore. (full descriptions of habitats and the definition of relatively undisturbed are in WDFW report – see web link on previous page).
	Caves: A naturally occurring cavity, recess, void, or system of interconnected passages under the earth in soils, rock, ice, or other geological formations and is large enough to contain a human.
	Cliffs: Greater than 25 ft (7.6 m) high and occurring below 5000 ft elevation.
D	Talus: Homogenous areas of rock rubble ranging in average size 0.5 - 6.5 ft (0.15 - 2.0 m), composed of basalt, andesite, and/or sedimentary rock, including riprap slides and mine tailings. May be associated with cliffs.
Ø	Snags and Logs: Trees are considered snags if they are dead or dying and exhibit sufficient decay characteristics to enable cavity excavation/use by wildlife. Priority snags have a diameter at breast height of > 20 in (51 cm) in western Washington and are > 6.5 ft (2 m) in height. Priority logs are > 12 in (30 cm) in diameter at the largest end, and > 20 ft (6 m) long.
Note: A	all vegetated wetlands are by definition a priority habitat but are not included in this list because they are

WSDOT Adapted Form - March 2, 2015

CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS

Check off any criteria that apply to the wetland. List the category when the appropriate criteria are met. SC 1.0. Estuarine Wetlands Does the wetland meet the following criteria for Estuarine wetlands? The dominant water regime is tidal, Vegetated, and With a salinity greater than 0.5 ppt Yes - Go to SC 1.1 No = Not an estuarine wetland SC 1.1. Is the wetland within a National Wildlife Refuge, National Park, National Estuary Reserve, Natural Area Preserve, State Park or Educational, Environmental, or Scientific Reserve designated under WAC 332-30-151? Yes = Category I No - Go to SC 1.2 SC 1.2. Is the wetland unit at least 1 ac in size and meets at least two of the following three conditions? The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing, and has less than 10% cover of non-native plant species. (If non-native species are Spartina, see page 25) At least 34 of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or ungrazed or un-mowed grassland. The wetland has at least two of the following features: tidal channels, depressions with open water, or contiguous freshwater wetlands. Yes = Category I No = Category II SC 2.0. Wetlands of High Conservation Value (WHCV) SC 2.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? Yes - Go to SC 2.2 No - Go to SC 2.3 SC 2.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes - Category I No = Not WHCV	111 17	CATEGORIZATION BASED ON SPECIAL CHARACTERISTICS	
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Reserve designated under WAC 332-30-151? Yes = Category I No - Go to SC 1.2 SC 1.2. Is the wetland unit at least 1 ac in size and meets at least two of the following three conditions? The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing, and has less than 10% cover of non-native plant species. (If non-native species are Spartina, see page 25) At least 3/4 of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or ungrazed or un-mowed grassland. The wetland has at least two of the following features: tidal channels, depressions with open water, or contiguous freshwater wetlands. Yes = Category I No = Category II SC 2.0. Wetlands of High Conservation Value (WHCV) SC 2.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? Yes - Go to SC 2.2 No - Go to SC 2.3 SC 2.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes = Category I No = Not WHCV SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	SC 1.1.	Is the wetland within a National Wildlife Refuge, National Park, National Estuary	
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Spartina, see page 25) At least ¾ of the landward edge of the wetland has a 100 ft buffer of shrub, forest, or ungrazed or un-mowed grassland. The wetland has at least two of the following features: tidal channels, depressions with open water, or contiguous freshwater wetlands. Yes = Category I No = Category II SC 2.0. Wetlands of High Conservation Value (WHCV) SC 2.1. Has the WA Department of Natural Resources updated their website to include the list of Wetlands of High Conservation Value? Yes - Go to SC 2.2 No - Go to SC 2.3 SC 2.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes = Category I No = Not WHCV SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	0		
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☐ Yes - Go to SC 2.2 ☐ No - Go to SC 2.3 SC 2.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? ☐ Yes = Category I ☐ No = Not WHCV SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	SC 2.1.	[- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	
SC 2.2. Is the wetland listed on the WDNR database as a Wetland of High Conservation Value? Yes = Category I No = Not WHCV SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?			
☐ Yes = Category I ☐ No = Not WHCV SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	6022		
SC 2.3. Is the wetland in a Section/Township/Range that contains a Natural Heritage wetland?	30 2.2.	일이 있는 가는 가는 가는 가게 되었다. 그리 있다고 하는 것이 되었다면 하는 것이 되었다면 하는 것이 없는 것이 없는 것이 없다면 하는데	
[[[[[[[[[[[[[[[[[[[[CC 2 2	- 1986 YANG - CONTACTOR SOLE OF STANCE OF STA	
	30 2.3.	- '(SES) 등의 경영 (1일) 전경 (전쟁 (1일) 전쟁 (1일) 전쟁 (1일) 전쟁 (1일) 전 (전쟁 (1일) 전쟁 (12) 전쟁	
☐ Yes - Contact WNHP/WDNR and to SC 2.4 ☐ No = Not WHCV			
SC 2.4. Has WDNR identified the wetland within the S/T/R as a Wetland of High Conservation	SC 2 4		
Value and listed it on their website?			
☐ Yes = Category I ☐ No = Not WHCV		☐ Yes = Category I ☐ No = Not WHCV	
SC 3.0. Bogs	SC 3.0.		
Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation		Does the wetland (or any part of the unit) meet both the criteria for soils and vegetation	
in bogs? Use the key below. If you answer YES you will still need to rate the		in bogs? Use the key below. If you answer YES you will still need to rate the	
wetland based on its functions		wetland based on its functions	
SC 3.1. Does an area within the wetland unit have organic soil horizons, either peats or mucks,	SC 3.1.	Does an area within the wetland unit have organic soil horizons, either peats or mucks,	
that compose 16 in or more of the first 32 in of the soil profile?		that compose 16 in or more of the first 32 in of the soil profile?	
☐ Yes - Go to SC 3.3 ☐ No - Go to SC 3.2		Yes - Go to SC 3.3 No - Go to SC 3.2	
SC 3.2. Does an area within the wetland unit have organic soils, either peats or mucks, that are	SC 3.2.	그러나의 병원하다 그 나이를 할 만든 것이 없는데 이번 나는 이번 이번 사람이 되었다면 하는데 하는데 하는데 하는데 하는데 되었다면 하는데	
less than 16 in deep over bedrock, or an impermeable hardpan such as clay or volcanic			
ash, or that are floating on top of a lake or pond?			
☐ Yes - Go to SC 3.3 ☐ No = Is not a bog			
SC 3.3. Does an area with peats or mucks have more than 70% cover of mosses at ground	SC 3.3.	에 가게 하는 것이 없어가 살아서 가는 사람들 보면가 많아 먹어야 하면서 생각하다면 하다면서 가게 하는 것은 나는 사람이 가게 했다. 이 이 등 하면서 가게 되었다고 하는 다른 사람이 하다.	
level, AND at least a 30% cover of plant species listed in Table 4?		- 1468 교육 [1981] 하는 150 전 150	
Yes = Is a Category I bog No - Go to SC 3.4			
NOTE: If you are uncertain about the extent of mosses in the understory, you may substitute that criterion by measuring the pH of the water that seeps into a hole dug at			
least 16 in deep. If the pH is less than 5.0 and the plant species in Table 4 are present,			
the wetland is a bog.		- [19] 가장하면 하면서 보고 있었다면 중요한 보고 있다면 경우는 이번에 가장 사람이 있다면 하는데	
SC 3.4. Is an area with peats or mucks forested (> 30% cover) with Sitka spruce, subalpine fir,	SC 3.4	경우 그 사람이 가장 하는 것이 없는 것이다.	
western red cedar, western hemlock, lodgepole pine, quaking aspen, Engelmann			
spruce, or western white pine, AND any of the species (or combination of species) listed			
in Table 4 provide more than 30% of the cover under the canopy?		- [1] 하는 이번에 따라면 가지면 있어요? [2] 이번에 가지면 보면 하는 것이다. [2] 이번에 가지면 보면 보면 하는 것이다. [2] 이번에 보면 보면 보면 보면 보면 보면 되었다. [2] 이번에 보면 보면 보면 보면 보면 보면 보면 되었다. [2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	
Wetland Rating System for W WA: 2014 (Pros Tes Tisa Sategory, 1 bog 1510 @ Wont Is not a bog March 2 2015	Notland B	ation System for W.WA: 2014 (The Yes Tala a Category I bog 1510 @ .No. Thansa a bog	- March 2, 2016

SC 4.0	. Forested Wetlands	
	Does the wetland have at least 1 contiguous acre of forest that meets one of these	
	criteria for the WA Department of Fish and Wildlife's forests as priority habitats? If you	
	answer YES you will still need to rate the wetland based on its functions.	
	forming a multi-layered canopy with occasional small openings; with at least 8 trees/ac	
	(20 trees/ha) that are at least 200 years of age OR have a diameter at breast height	
	(dbh) of 32 in (81 cm) or more.	1
D	Mature forests (west of the Cascade Crest): Stands where the largest trees are 80-	1
	200 years old OR the species that make up the canopy have an average diameter (dbh)	1
	exceeding 21 in (53 cm).	
	☐ Yes = Category I ☐ No = Not a forested wetland for this section	Ja
SC 5.0	. Wetlands in Coastal Lagoons	
	Does the wetland meet all of the following criteria of a wetland in a coastal lagoon?	
	separated from marine waters by sandbanks, gravel banks, shingle, or, less frequently,	
	rocks	
	F477.737)	
	brackish (> 0.5 ppt) during most of the year in at least a portion of the lagoon (needs to	
	be measured near the bottom)	
	☐ Yes - Go to SC 5.1 ☐ No = Not a wetland in a coastal lagoon	
90.51	Does the wetland meet all of the following three conditions?	
30 3.1.	The wetland is relatively undisturbed (has no diking, ditching, filling, cultivation, grazing),	
(total)	and has less than 20% cover of aggressive, opportunistic plant species (see list of	
	이 많은 사람들은 경영	
	species on p. 100). At least 3/ of the landward edge of the wetland has a 100 ft buffer of elevely forcet, or up.	
	25	
175	grazed or un-mowed grassland.	
	The Median Configuration (10 de (1000 ft))	
	☐ Yes = Category I ☐ No = Category II	
SC 6.0.	. Interdunal Wetlands	
	Is the wetland west of the 1889 line (also called the Western Boundary of Upland	
	Ownership or WBUO)? If you answer yes you will still need to rate the wetland	
	based on its habitat functions.	
	In practical terms that means the following geographic areas:	
0		
0	- 1987 F. F. SANAN BY SAN	
0		
	☐ Yes - Go to SC 6.1 ☐ No = Not an interdunal wetland for rating	
SC 6.1		
30	(rates H,H,H or H,H,M for the three aspects of function)?	
	Yes = Category I No - Go to SC 6.2	
SC 6 2	Is the wetland 1 ac or larger, or is it in a mosaic of wetlands that is 1 ac or larger?	
50 0.2	26 - NOT STATEMENT (CONTINUED AND CONTINUED	
2063	Yes = Category II No - Go to SC 6.3	
SC 6.3.	Is the unit between 0.1 and 1 ac, or is it in a mosaic of wetlands that is between 0.1 and	
	1 ac?	
	☐ Yes = Category III ☐ No = Category IV	

Map 1: 150-ft-radius circle; Cowardin classes, hydroperiods, and outlet.



Cowardin vegetation classes: Emergent (remainder of wetland area is forested)

Hydroperiods: Seasonally inundated (remainder is saturated only)

Map 2: 1-km radius from wetland; accessible and undisturbed habitat polygons

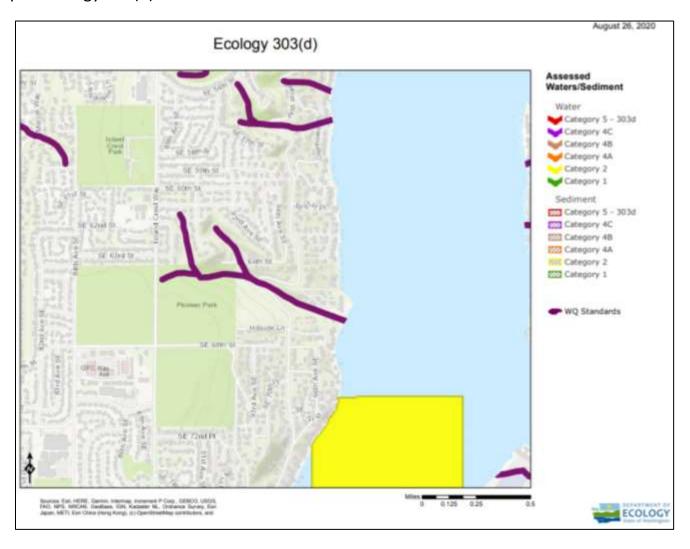


Accessible undisturbed habitat

Undisturbed habitat

Moderate and low-intensity land uses

Map 3: Ecology 303(d) Waters



TMDLs in King County

Water quality improvement projects

Select the waterbody or pollutant name to find more information about the specific project.

Waterbody Name(s)	Pollutant(s)	Status	Project Lead(s)
Bear-Evans Creek Basin	Fecal Coliform	EPA approved	<u>Ralph Svricek</u> 425-649-7165
Bear-Evans Creek Basin	Dissolved Oxygen Temperature	EPA approved	<u>Ralph Svricek</u> 425-649-7165
Cottage Lake	Total Phosphorus	EPA approved	Tricia Shobiom 425-649-7288
Duwamish and Lower Green River	Ammonia-N	EPA approved	Ralph Svricek 425-649-7165
Duwamish and Green River	Pollutant loading	Working with technical advisory group	Rachel McCrea 425-649-7033
Fauntieroy Creek	Fecal Coliform	EPA approved	Raiph Svricek 425-649-7165
Fenwick Lake	Total Phosphorus	EPA approved	<u>Tricia Shobiom</u> 425-649-7288
Green River and Newaukum Creek	Dissolved Oxygen Temperature	EPA approved	Raiph Svricek 425-649-7165
Issaquah Creek Basin	Fecal Coliform	EPA approved	Ralph Svricek 425-649-7165
<u>Lake Sawyer</u>	Total Phosphorus	EPA approved	Tricia Shoblom 425-649-7288
Little Bear Creek	Fecal Coliform	EPA approved	<u>Ralph Svrjcek</u> 425-649-7165
Newaukum Creek	Bacteria	Under development	<u>Ralph Svricek</u> 425-649-7165
North Creek	Fecal Coliform	EPA approved and Has an implementation plan	Ralph Syricek 425-649-7165
Pipers Creek	Fecal Coliform	EPA approved	<u>Ralph Svricek</u> 425-649-7165
Sammamish River	Dissolved Oxygen Temperature	Under development	Ralph Svrjeck 425-649-7165
Snoqualmie River	Ammonia-N BOD (5-day) Fecal Coliform	EPA approved	Ralph Svrjeck 425-649-7165
Snogualmie River	Temperature	EPA approved and Has an implementation plan	<u>Ralph Svrjeck</u> 425-649-7165
Soos Creek	Fecal Coliform	Under Development	Ralph Svricek 425-649-7165

Appendix C Wetland Determination Forms

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

Project/Site: Altman Mercer Islan		City/0	County: I	King	Sampling Date: 5/15/2020
Applicant/Owner: Plan to Permit LLC/Altman		- 100 Sm			te: wa Sampling Point: DP1
Investigator(s): S Tomassi, B MacWhinney		Section			
550 (0.01)		500			ivex, none): concave Slope (%): 1
Subregion (LRR): A					
Soil Map Unit Name: Kitsap silt loam, 15 to 30% slo		37100			NWI Classification:
Are climatic / hydrologic conditions on the site typica		of year?	Yes		
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐					
마이의 (전)	significantly				
Are Vegetation . Soil . , or Hydrology .					eded, explain any answers in Remarks.)
(2)	map snow	ing sam	ipiing	point ioc	ations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	O No		Is the	Sampled /	Area
Hydric Soil Present? O Yes Wetland Hydrology Present? O Yes	■ No ■ No			n a Wetland	[1947 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
7	@ NO				
Remarks:					
VEGETATION - Use scientific names of	f plants.				
	Absolute	Dom. R	Relative	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30ft x 30ft</u>) 1.	% Cover	Sp.? %	Cover	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
2.			=		Total Number of Dominant
3.					Species Across All Strata: 2 (B)
4.		100			Percent of Dominant Species
		= Total Co	ver		That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)				8	Prevalence Index worksheet:
1					anyong samulangan
2					Total % Cover of: Multiply by: OBL species 0 x 1 = 0
4					OBL species 0 x1 = 0 FACW species 0 x2 = 0
5					FAC species 85 x3 = 255
To .		= Total Co	ver		FACU species 15 x4 = 60
Herb Stratum (Plot size: 5ft x 5ft)					UPL species 0 x 5 = 0
1. Poa	65	Y	65.0	FAC	Column Totals: 100 (A) 315 (B)
2. Ranunculus repens	20	Y	20.0	FAC	Prevalence Index = B/A = 3.150
Geranium robertianum	15	N	15.0	FACU	
4.					Hydrophytic Vegetation Indicators:
5.					1 - Rapid Test for Hydrophytic Vegetation
6.		-			2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0*
<i>L</i> .					3 - Prevalence index is \$3.0" 4 - Morphological Adaptations' (Provide supporting
8.					data in Remarks or on a separate sheet)
9.		350			☐ 5 - Wetland Non-Vascular Plants¹
11		4 955	_		☐ Problematic Hydrophytic Vegetation¹ (Explain)
18	100	= Total Co	ver		'Indicators of hydric soil and wetland hydrology must be
Woody Vine Stratum (Plot size:)					present, unless disturbed or problematic.
1		17.45	_		th double dia
2		= Total Co	wor		Hydrophytic Vegetation
% Bare Ground in Herb Stratum		- Total Co	vei		Present? • Yes O No
Remarks:					

SOIL Sampling Point: DP1

Profile Description: (Describe to the d	Dade: Fast :		
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type' Loc	a Textu	re Remarks
	Color (moist) % Type Loc	Textu	Remarks
0-14 10YR 3/2 100		Loam	
			. a.
	TOTAL STATE OF THE	1-21-6	official in
	- 1.5	G 5-055	W. W.
			# %#
	M=Reduced Matrix, CS=Covered or Coated Sar		*Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to a			ndicators for Problematic Hydric Soils1:
☐ Histosol (A1)	☐ Sandy Redox (S5)] 2 cm Muck (A10)
☐ Histic Epipedon (A2)	☐ Stripped Matrix (S6)		Red Parent Material (TF2)
Black Histic (A3)	☐ Loamy Mucky Mineral (F1) (except MLRA		Very Shallow Dark Surface (TF12)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)		Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	☐ Depleted Matrix (F3)		
☐ Thick Dark Surface (A12)	☐ Redox Dark Surface (F6)		indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	☐ Depleted Dark Surface (F7)		vetland hydrology must be present,
☐ Sandy Gleyed Matrix (S4)	☐ Redox Depressions (F8)	U	nless disturbed or problematic.
Restrictive Layer (if present):			
Type:			
35 T T T T T T T T T T T T T T T T T T T		(12217627475	Soil Present? O Yes ® No
Depth (inches):Remarks:	15	Hydric	Juli Present?
Remarks:		Hydric	Juli Present?
Remarks: IYDROLOGY Wetland Hydrology Indicators:	Social short all that make		
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requ		S	econdary Indicators (2 or more required)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requirement) Surface Water (A1)	☐ Water-Stained Leaves (89) (except	S	econdary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2,
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requirement) Surface Water (A1) High Water Table (A2)	☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)		econdary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements) Surface Water (A1) High Water Table (A2) Saturation (A3)	☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ☐ Salt Crust (B11)		econdary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (810)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	☐ Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) ☐ Salt Crust (B11) ☐ Aquatic Invertebrates (B13)		econdary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2)
Primary Indicators: Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	☐ Water-Stained Leaves (89) (except MLRA 1, 2, 4A, and 4B) ☐ Salt Crust (B11) ☐ Aquatic Invertebrates (B13) ☐ Hydrogen Sulfide Odor (C1)	\$ C	econdary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requi) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	□ Water-Stained Leaves (89) (except MLRA 1, 2, 4A, and 4B) □ Salt Crust (B11) □ Aquatic Invertebrates (B13) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres along Living R	S C C C C C C C C C C C C C C C C C C C	econdary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requirement) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	□ Water-Stained Leaves (89) (except	5 C C C C C C C	iecondary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requirement of the property of the prop	□ Water-Stained Leaves (89) (except	oots (C3) C	econdary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one requirement) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	□ Water-Stained Leaves (B9) (except	oots (C3) C (C6) C (A) C	iecondary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
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Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required service) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Imagery	□ Water-Stained Leaves (B9) (except	oots (C3) C (C6) C (A) C	iecondary Indicators (2 or more required) Water-Stained Leaves (89) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (810) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Section (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Images of Section (A) Sparsely Vegetated Concave Surface (Images of Section (B) Field Observations: Surface Water Present? O Yes (Images of Yes) Water Table Present? O Yes (Images of Yes)	□ Water-Stained Leaves (B9) (except	oots (C3) C (C6) C	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required for surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Imagery (Imagery Vegetated Concave Surface (Imagery Vegetated Concave	□ Water-Stained Leaves (B9) (except	oots (C3) CC(C6) CCC(A) CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Incided Surface (Incided Surface) Sparsely Vegetated Concave Surface (Incided Surface) Water Table Present? Yes Water Table Present? Yes Saturation Present? Yes (Includes capillary fringe)		oots (C3) CC(C6) CCC(A) CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Incidence Surface (Field Observations: Surface Water Present? O Yes Water Table Present? O Yes Saturation Present? O Yes Saturation Present? O Yes Sincludes capillary fringe) Describe Recorded Data (stream gauge,		oots (C3) CC(C6) CCC(A) CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (Incided Surface (Incided Surface) Sparsely Vegetated Concave Surface (Incided Surface) Water Table Present? Yes Water Table Present? Yes Saturation Present? Yes (Includes capillary fringe)		oots (C3) CC(C6) CCC(A) CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

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

Project/Site: Altman Mercer Islan		Ci	ty/County:	King	Sampling Date: 5/15/2020
Applicant/Owner: Plan to Permit LLC/Altman			Mirrosis umo	52.7	ate: wa Sampling Point: DP2
nvestigator(s): S Tomassi, B MacWhinney		Se	action. Tow	7	
		72			nvex, none): none Slope (%): 5
항공 공항 전환 경우 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.	The second before the				-122.21622 Datum: NAD83HARN
Soil Map Unit Name: Kitsap silt loam, 15 to 30% slo					NWI Classification:
Are climatic / hydrologic conditions on the site typic			-2 @ Ye	s ON	
Are Vegetation 🖂 , Soil 🖂 , or Hydrology 🖂	significantly				
Are Vegetation . Soil . , or Hydrology .					eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map show	ing sa	ampling	point loc	cations, transects, important features, etc.
Hydrophytic Vegetation Present? O Yes	● No				
Hydric Soil Present?			15555	e Sampled in a Wetland	
Wetland Hydrology Present? O Yes	No		*****	II a rrevair	0:0
Remarks:					
/EGETATION – Use scientific names o	f plants.				·
	Absolute	Dom.	Relative	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)	% Cover	Sp.?	% Cover	Status	Number of Dominant Species
Tsuga heterophylla	20	<u>Y</u>	20.0	FACU	That Are OBL, FACW, or FAC:1(A)
Pseudotsuga menziesii Aces massrochullum	30	<u> </u>	30.0	FACU	Total Number of Dominant
Acer macrophyllum	50	_ Y_	50.0	FACU	Species Across All Strata:7(B)
4	100	= Total	Count		Percent of Dominant Species That Are OBL, FACW, or FAC: 14.3% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)	100	TUtor .	Cover		That are Obc, FACH, or FAC.
Frangula purshiana	5	Υ	50.0	FAC	Prevalence Index worksheet:
Rhododendron macrophyllum		Y		FACU	Total % Cover of: Multiply by:
3.				24	OBL species 0 x 1 = 0
4.					FACW species 0 x 2 = 0
5.					FAC species 6 x 3 = 18
	10	= Total	Cover		FACU species 225 x 4 = 900
Herb Stratum (Plot size: 5ft x 5ft)					UPL species 0 x 5 = 0
Achlys triphylla		N	1.6	FAC	Column Totals: 231 (A) 918 (B)
Polystichum munitum	60	Y	98.4	FACU	Prevalence Index = B/A = 3.974
3		_			Hydrophytic Vegetation Indicators:
4 5.			-		1 - Rapid Test for Hydrophytic Vegetation
6.	2 2 		-		2 - Dominance Test is >50%
7			-		☐ 3 - Prevalence Index is ≤3.01
9			-		☐ 4 - Morphological Adaptations' (Provide supporting
9.		-	-		data in Remarks or on a separate sheet)
10.	-61 (1)			16	☐ 5 - Wetland Non-Vascular Plants¹
11.	A46 20		.55	A	☐ Problematic Hydrophytic Vegetation¹ (Explain)
	61	= Total	Cover	F-1	*Indicators of hydric soil and wetland hydrology must b
	\$1 P			12.4259-0070	present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 5ft x 5ft)		100	100.0	FACU	e e
Woody Vine Stratum (Plot size: 5ft x 5ft	60	Y	100.0	11100	Market and the second s
- 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19	60	Y	100.0		Hydrophytic
Hedera helix		Total			Hydrophytic Vegetation Present? Yes ® No

SOIL Sampling Point: DP2

Depth (inches) 0-14	The late of the believe			x Feature	55			
-14	Color (moist)	%	Color (moist)	%	Type ¹	Loc3	Texture	Remarks
	10YR 2/2	75	10YR 5/3	20	С	M	Loam	14.F
				5	С	1886	S-MANUEL V	D i
			10YR 4/6	_ 5		M	· 	() ()
	——		——	_		_		
200	0 52 50	55			-		153	F12
200	75	- 030						W est
								0.4
- 4							-	•
			500 0					
Type: C=Con	ncentration, D=Depl	etion RM=R	educed Matrix CS	Covered	or Coate	d Sand (Grains 1 o	cation: PL=Pore Lining, M=Matrix.
	ndicators: (Applica					4		rs for Problematic Hydric Soils*
Histosol (A	1)	E	Sandy Redox (SS	Y :	34		□ 2 cm 1	Muck (A10)
Histic Epipe	201		Stripped Matrix (9					arent Material (TF2)
Black Histic			Loamy Mucky Mir	Control of the last of the las	(except N	ILRA 1)		Shallow Dark Surface (TF12)
Hydrogen 9	A STATE OF THE PARTY OF THE PAR		Loamy Gleyed Ma	THE PROPERTY OF	(Consultation)			(Explain in Remarks)
	elow Dark Surface (Depleted Matrix ((Copular in recinal in)
	Surface (A12)	51 53 -	Redox Dark Surfa				To East	
	ky Mineral (S1)		Depleted Dark Su					rs of hydrophytic vegetation and
	ved Matrix (S4)		Redox Depression		£11			hydrology must be present, sturbed or problematic.
	ayer (if present):						N. A. Santan	
	ayer (ii present).						1	
Type:	1-27							neant? • Yes O No
Depth (inc	hes):						Hydric Soil Pr	esent?
Wetland Hyd	rology Indicators:		that all that and	1.3			Secondary	To finance (2 or many proprietal)
Wetland Hyde Primary Indica	rology Indicators: ators (minimum of c				/90\ (avc	on!	Author 1977	ry Indicators (2 or more required)
Wetland Hydro Primary Indica Surface Wa	rology Indicators: ators (minimum of cater (A1)		☐ Water-Staine	d Leaves	2000	ept	☐ Water	Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydromary Indicates Surface Water High Water	ators (minimum of o ater (A1) Table (A2)		☐ Water-Staine MLRA 1,	d Leaves 2, 4A, an	2000	ept	☐ Water-	Stained Leaves (89) (MLRA 1, 2, A, and 4B)
Wetland Hydromary Indicated Surface Water Sturation (rology Indicators: ators (minimum of cater (A1) Table (A2) (A3)		☐ Water-Staine MLRA 1, ☐ Salt Crust (B:	d Leaves (2, 4A, an 11)	d 4B)	ept	☐ Water 4/	Stained Leaves (B9) (MLRA 1, 2, A, and 4B) ge Patterns (B10)
Primary Indica Surface Wa High Water Saturation (Water Mark	rology Indicators: ators (minimum of cater (A1) Table (A2) (A3) ks (B1)		☐ Water-Staine MLRA 1, ☐ Salt Crust (8: ☐ Aquatic Inver	d Leaves (2, 4A, an 11) rtebrates (d 4B) (B13)	ept	☐ Water 4/ ☐ Draina ☐ Dry-Se	Stained Leaves (B9) (MLRA 1, 2, A, and 4B) ige Patterns (B10) vason Water Table (C2)
Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D	rology Indicators: ators (minimum of cater (A1) Table (A2) (A3) ks (B1) Deposits (B2)		☐ Water-Staine MLRA 1, ☐ Salt Crust (B: ☐ Aquatic Inver ☐ Hydrogen Su	d Leaves (2, 4A, an 11) rtebrates (lfide Odor	(B13) (C1)		☐ Water 4/ ☐ Draina ☐ Dry-Se ☐ Satura	Stained Leaves (B9) (MLRA 1, 2, A, and 4B) ige Patterns (B10) vason Water Table (C2) tion Visible on Aerial Imagery (C9)
Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi	rology Indicators: ators (minimum of cater (A1) Table (A2) (A3) ks (B1) Deposits (B2) iits (B3)		☐ Water-Staine MLRA 1, ☐ Salt Crust (B: ☐ Aquatic Inver ☐ Hydrogen Su ☐ Oxidized Rhlz	d Leaves (2, 4A, an 11) rtebrates (lfide Odor rospheres	(B13) (C1) along Liv		☐ Water 4/ ☐ Draina ☐ Dry-Se ☐ Satura Is (C3) ☐ Geome	Stained Leaves (B9) (MLRA 1, 2, A, and 4B) ige Patterns (B10) sason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
Wetland Hydi Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat or	rology Indicators: ators (minimum of cater (A1) Table (A2) (A3) ks (B1) Deposits (B2) iits (B3) or Crust (B4)		☐ Water-Staine MLRA 1, ☐ Salt Crust (B: ☐ Aquatic Inver ☐ Hydrogen Su ☐ Oxidized Rhiz ☐ Presence of F	d Leaves (2, 4A, an 11) rtebrates (ifide Odor rospheres Reduced Ir	(B13) (C1) along Liv ron (C4)	ing Root	☐ Water 4/ ☐ Draina ☐ Dry-Se ☐ Satura Is (C3) ☐ Geome	Stained Leaves (B9) (MLRA 1, 2, A, and 4B) ige Patterns (B10) isason Water Table (C2) ition Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Iron Deposi	rology Indicators: ators (minimum of cater (A1) Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)		☐ Water-Staine MLRA 1, ☐ Salt Crust (B: ☐ Aquatic Inver ☐ Hydrogen Su ☐ Oxidized Rhiz ☐ Presence of B	d Leaves (2, 4A, and 11) rtebrates (ifide Odor rospheres Reduced In Reduction	(B13) (C1) along Liv ron (C4) in Tilled	ing Root Soils (C6	Water	Stained Leaves (B9) (MLRA 1, 2, A, and 4B) age Patterns (B10) bason Water Table (C2) attion Visible on Aerial Imagery (C9) brighic Position (D2) av Aquitard (D3) autral Test (D5)
Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Deposi Surface Soil	rology Indicators: ators (minimum of cater (A1) Table (A2) (A3) ks (B1) Deposits (B2) iits (B3) or Crust (B4) iits (B5) Il Cracks (B6)	one required;	☐ Water-Staine MLRA 1, ☐ Salt Crust (B: ☐ Aquatic Inver ☐ Hydrogen Su ☐ Oxidized Rhiz ☐ Presence of B ☐ Recent Iron B ☐ Stunted or St	d Leaves (2, 4A, and 11) rtebrates (lifide Odor cospheres Reduced In Reduction tressed Pla	(B13) (C1) along Liv ron (C4) in Tilled ants (D1)	ing Root Soils (C6	Water	Stained Leaves (B9) (MLRA 1, 2, A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A)
Wetland Hydi Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Surface Soi Inundation	irology Indicators: actors (minimum of conter (A1) Table (A2) (A3) (A3) (A3) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	one required;	☐ Water-Staine MLRA 1, ☐ Salt Crust (B: ☐ Aquatic Inver ☐ Hydrogen Su ☐ Oxidized Rhiz ☐ Presence of B	d Leaves (2, 4A, and 11) rtebrates (lifide Odor cospheres Reduced In Reduction tressed Pla	(B13) (C1) along Liv ron (C4) in Tilled ants (D1)	ing Root Soils (C6	Water	Stained Leaves (B9) (MLRA 1, 2, A, and 4B) age Patterns (B10) bason Water Table (C2) attion Visible on Aerial Imagery (C9) brighic Position (D2) av Aquitard (D3) autral Test (D5)
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Wetland Hydi Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat on Iron Deposi Inundation Sparsely Ve Field Observi Surface Water Water Table F Saturation Pre (includes capi	irology Indicators: ators (minimum of cater (A1) Table (A2) (A3) Is (B1) Deposits (B2) Iilts (B3) Ir Crust (B4) Iilts (B5) Il Cracks (B6) Visible on Aerial Imagetated Concave Signations: Ir Present? If Present? If Yesesent? Illary fringe)	nagery (B7) s • No s • No	☐ Water-Staine MLRA 1, ☐ Salt Crust (8: ☐ Aquatic Inver ☐ Hydrogen Su ☐ Oxidized Rhiz ☐ Presence of 8 ☐ Recent Iron 8 ☐ Stunted or St ☐ Other (Explain ☐ Depth (inched De	d Leaves (2, 4A, and 11) rtebrates (iffide Odor cospheres Reduced In Reduction tressed Pk in in Remains ss): ss):	d 4B) (B13) (C1) along Liv ron (C4) in Tilled ants (D1) arks)	Soils (CG (LRR A)	Water 4/ Draina Dry-Se Satura Geome Shallo FAC-N Raised Frost-l	Stained Leaves (B9) (MLRA I, 2, A, and 4B) age Patterns (B10) asson Water Table (C2) ation Visible on Aerial Imagery (C9) arrhic Position (D2) av Aquitard (D3) autral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland Hydi Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat on Iron Deposi Surface Soil Inundation Sparsely Ve Field Observ Water Table F Saturation Pre (includes capi Describe Reco	irology Indicators: ators (minimum of cater (A1) Table (A2) (A3) Is (B1) Deposits (B2) Iilts (B3) Ir Crust (B4) Iilts (B5) Il Cracks (B6) Visible on Aerial Imagetated Concave Signations: Ir Present? If Present? If Yesesent? Illary fringe)	nagery (B7) s • No s • No	☐ Water-Staine MLRA 1, ☐ Salt Crust (8: ☐ Aquatic Inver ☐ Hydrogen Su ☐ Oxidized Rhiz ☐ Presence of 8 ☐ Recent Iron 8 ☐ Stunted or St ☐ Other (Explain ☐ Depth (inched De	d Leaves (2, 4A, and 11) rtebrates (iffide Odor cospheres Reduced In Reduction tressed Pk in in Remains ss): ss):	d 4B) (B13) (C1) along Liv ron (C4) in Tilled ants (D1) arks)	Soils (CG (LRR A)	Water 4/ Draina Dry-Se Satura Geome Shallo FAC-N Raised Frost-l	Stained Leaves (B9) (MLRA I, 2, A, and 4B) age Patterns (B10) asson Water Table (C2) ation Visible on Aerial Imagery (C9) arrhic Position (D2) av Aquitard (D3) autral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland Hydi Primary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat on Iron Deposi Inundation Sparsely Ve Field Observi Surface Water Water Table F Saturation Pre (includes capi	irology Indicators: ators (minimum of cater (A1) Table (A2) (A3) Is (B1) Deposits (B2) Iilts (B3) Ir Crust (B4) Iilts (B5) Il Cracks (B6) Visible on Aerial Imagetated Concave Signations: Ir Present? If Present? If Yesesent? Illary fringe)	nagery (B7) s • No s • No	☐ Water-Staine MLRA 1, ☐ Salt Crust (8: ☐ Aquatic Inver ☐ Hydrogen Su ☐ Oxidized Rhiz ☐ Presence of 8 ☐ Recent Iron 8 ☐ Stunted or St ☐ Other (Explain ☐ Depth (inched De	d Leaves (2, 4A, and 11) rtebrates (iffide Odor cospheres Reduced In Reduction tressed Pk in in Remains ss): ss):	d 4B) (B13) (C1) along Liv ron (C4) in Tilled ants (D1) arks)	Soils (CG (LRR A)	Water 4/ Draina Dry-Se Satura Geome Shallo FAC-N Raised Frost-l	Stained Leaves (B9) (MLRA I, 2, A, and 4B) Ige Patterns (B10) Igeson Water Table (C2) Ition Visible on Aerial Imagery (C9) Ipophic Position (D2) Iw Aquitard (D3) I eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

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

ownship, Range: Sec 30 T2 (concave, convex, none): Long: -122 21622 NWI Cl Yes O No (If no Are *Normal Circur (If needed, explain g point locations, tra the Sampled Area thin a Wetfand? Dominance	Sampling Point: DP3 24N R05W none Slope (%): 10 Datum: NAD83HARN Classification: no, explain in Remarks.) umstances* present? Yes No n any answers in Remarks.) ansects, important features, etc. Yes No
Long: -122.21622 NWI CI Yes O No (If no Are "Normal Circur (If needed, explain g point locations, tra the Sampled Area thin a Wetland? Dominance	Datum: NAD83HARN Classification: no, explain in Remarks.) umstances* present? Yes No n any answers in Remarks.) ansects, important features, etc. Yes No
Long:122_21622 NWI Ci Yes O No (If no Are *Normal Circur (If needed, explain g point locations, tra the Sampled Area thin a Wetland? Dominance	Datum: NAD83HARN Classification: no, explain in Remarks.) umstances* present? Yes No n any answers in Remarks.) ansects, Important features, etc. Yes No
Yes O No (If no Are *Normal Circur (If needed, explain g point locations, trathe Sampled Area thin a Wetland?	Classification: no, explain in Remarks.) umstances* present? Yes No n any answers in Remarks.) ansects, important features, etc. Yes No
Yes O No (If no Are *Normal Circur (If needed, explain g point locations, trathe Sampled Area thin a Wetland?	Classification: no, explain in Remarks.) umstances* present? Yes No n any answers in Remarks.) ansects, important features, etc. Yes No
Are *Normal Circur (If needed, explain g point locations, tra the Sampled Area thin a Wetland? Dominance	io, explain in Remarks.) umstances* present? Yes No n any answers in Remarks.) ansects, important features, etc. Yes No
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g point locations, tra the Sampled Area thin a Wetland? Dominance	Yes O No
the Sampled Area thin a Wetland? e Indicator Charles Dominance	● Yes ○ No
e Indicator Dominance	
e Indicator Dominance	
e Indicator	ce Test worksheet:
e Indicator	:e Test worksheet:
e Indicator	ce Test worksheet:
e Indicator	:e Test worksheet:
e Indicator	ce Test worksheet:
e Indicator	ce Test worksheet:
e Ctates	
	f Dominant Species
	OBL, FACW, or FAC: 3 (A)
FAC Total Numb	ber of Dominant
	cross All Strata: 5 (B)
Percent of	Dominant Species
That Are O	OBL, FACW, or FAC: 60.0% (A/B)
2	- Independent -
TAG	ce Index worksheet:
	% Cover of: Multiply by:
OBL specie FACW spe	1
FAC specie	
	14 TH - 14 TH - 15 TH
UPL specie	
	7 THE STATE OF THE
- President	valence Index = B/A = 3.622
	The state of the s
	tic Vegetation Indicators:
	pid Test for Hydrophytic Vegetation
	minance Test is >50%
	evalence Index is ≤3.0°
	orphological Adaptations' (Provide supporting ta in Remarks or on a separate sheet)
□ 5. Wel	etland Non-Vascular Plants1
	ematic Hydrophytic Vegetation' (Explain)
-1657 - 555 particular reserves	s of hydric soil and wetland hydrology must be
	2000년 대한 아이들의 병자 아름지 의 전하다고 하는 이 등에 가고 있는데 아프라이를 하는 때 전혀 되었다.
	nless disturbed or problematic.
	niess disturbed or problematic.
present, un	
FACU Present, un	rtic
FACU Hydrophyt	rtic
)	FACU special UPL special Column To Previous Hydrophy 1 - Ra 2 - Do 3 - Previous 4 - Modal 5 - We Proble 'Indicators'

Profile Description: (Describe to the	depth needed to do	cument the	Indicator	OF CORF	rm the at	nsence of	ndicators	1	
		Redox Featu		Or COIII	mi uie a	userice of i	iluicators.	P.	
Depth Matrix Inches) Color (moist) %			Type	Loca	Te	exture		Pen	narks
			_					rven	Idino
0-14 10YR 4/1 80	10YR 5	6 20	_ c	_M_	Silty Cl	ay Loam			
				_					
		200							
584 St 1845		200	(d) (d)	-	-		3-5		
			-		-		-		
		79.715			-		-		
Type: C=Concentration, D=Depletion,	RM=Reduced Matrix,	CS=Covere	d or Coate	ed Sand (Grains.	Lo	cation: PL=	Pare Lini	ng, M=Matri
Hydric Soil Indicators: (Applicable to	all LRRs, unless of	therwise not	ed.)			Indicato	rs for Prob	elematic	Hydric Soil
Histosol (A1)	□ Sandy Redox	(55)				□ 2 cm	Muck (A10)	g.	
☐ Histic Epipedon (A2)	☐ Stripped Matr	rix (S6)				☐ Red P	arent Mater	rial (TF2)	
☐ Black Histic (A3)	Loamy Mucky	Mineral (F1	(except l	MLRA 1)		☐ Very S	Shallow Dar	k Surface	(TF12)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyer					☐ Other	(Explain in	Remarks	()
Depleted Below Dark Surface (A11)	 Depleted Mat 								
Thick Dark Surface (A12)	☐ Redox Dark S		20			Indicato	rs of hydro	phytic veg	getation and
Sandy Mucky Mineral (S1)	☐ Depleted Dar		7)				hydrology n		
☐ Sandy Gleyed Matrix (S4)	☐ Redox Depre	ssions (F8)				unless d	sturbed or	problema	atic.
Restrictive Layer (if present):									
Type:									
Type:					Ну	dric Soil Pr	esent?	● Ye	s O No
Depth (inches):					Ну	dric Soil Pr	esent?	● Ye	s O No
Depth (inches):					Ну	dric Soil Pr	esent?	● Ye	s O No
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators:		500.00.400			Нус	ANTONIA			3175-3775
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one remarks)					Нус	Seconda	y Indicator	s (2 or m	nore requires
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recommend): Surface Water (A1)	☐ Water-St	ained Leaves		cept	Ну	Seconda ☑ Water	ry Indicator Stained Le	s (2 or m	3175-3775
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one red Surface Water (A1) High Water Table (A2)	☐ Water-St MLR	ained Leaves A 1, 2, 4A, a		rept	Ну	Seconda ☑ Water 4.	ry Indicator Stained Le A, and 48)	s (2 or m aves (B9	nore requires
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recommend of the primary Indicators (minimum of the primary Indicators (MI) High Water Table (A2) Saturation (A3)	☐ Water-St MLR ☐ Salt Crus	tained Leaves A 1, 2, 4A, a st (B11)	nd 4B)	cept	Ну	Seconda Water 4.	ry Indicator Stained Le A, and 4B) Ige Patterns	s (2 or m aves (89) s (810)	ore required) (MLRA 1, 2
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recommend of the primary Indicators (minimum of the	☐ Water-St MLR ☐ Salt Crus ☐ Aquatic I	tained Leaves A 1, 2, 4A, a st (B11) Invertebrates	nd 4B) (B13)	cept	Ну	Seconda Water 4. Draine	ry Indicator Stained Le A, and 48) ige Patterns	s (2 or m aves (89 s (810) r Table (4	oore required) (MLRA 1, 2
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recognized Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	☐ Water-St MLR ☐ Salt Crus ☐ Aquatic I ☐ Hydroge	tained Leaves A 1, 2, 4A, a at (B11) Invertebrates in Sulfide Odd	nd 4B) (B13) or (C1)			Seconda Water 4. Draine Dry-Se	ry Indicator Stained Le A, and 48) ige Patterns eason Wate tion Visible	s (2 or m aves (89) s (810) r Table (i	ore required) (MLRA 1, 2 C2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recognition of the property of the pro	☐ Water-St MLR ☐ Salt Crus ☐ Aquatic I ☐ Hydrogei ☐ Oxidized	rained Leaves A 1, 2, 4A, a at (B11) Invertebrates in Sulfide Odo Rhizosphere	(B13) or (C1) s along Liv			Seconda Water 4. Draine Dry-Se Satura	ry Indicator Stained Le A, and 4B) ge Patterns asson Wate tion Visible orphic Posit	s (2 or m aves (B9) s (B10) r Table (i on Aeria ion (D2)	ore required) (MLRA 1, 2 C2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recognized water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	☐ Water-St MLR ☐ Salt Crus ☐ Aquatic 1 ☐ Hydroge ☐ Oxidized ☐ Presence	tained Leaves A 1, 2, 4A, a st (B11) Invertebrates in Sulfide Odo Rhizosphere e of Reduced	(B13) or (C1) s along Liv Iron (C4)	ving Root	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom	ry Indicator Stained Le A, and 4B) age Patterns eason Wate tion Visible orphic Posit w Aquitard	s (2 or m aves (B9) s (B10) r Table (i on Aeria ion (D2) (D3)	ore required) (MLRA 1, 2 C2)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recognition of the primary Indicators (Malagorian of the primary Indicators	☐ Water-St MLR ☐ Salt Crus ☐ Aquatic I ☐ Hydroge ☐ Oxidized ☐ Presence ☐ Recent Ii	tained Leaves A 1, 2, 4A, a st (B11) Invertebrates in Sulfide Odo Rhizosphere e of Reduced ron Reductio	(B13) or (C1) s along Li Iron (C4) n in Tilled	ving Root Soils (C6	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo	ry Indicator Stained Le A, and 4B) age Patterns eason Wate tion Visible orphic Posit w Aquitard eutral Test	s (2 or m aves (B9) s (B10) r Table (i on Aeria ion (D2) (D3) (D5)	ore required) (MLRA 1, 2 C2) I Imagery (C
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recognition of the primary Indicators (Malagorian of the primary Indicators	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent I	rained Leaves A 1, 2, 4A, a st (B11) Invertebrates In Sulfide Odo Rhizosphere of Reduced ron Reductio or Stressed F	(B13) or (C1) s along Liv Iron (C4) n in Tilled	ving Root Soils (C6	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo FAC-N Raisec	ry Indicator Stained Le A, and 4B) age Patterns eason Wate tion Visible orphic Posit w Aquitard eutral Test I Ant Mound	s (2 or m aves (B9) s (B10) r Table (i on Aeria ion (D2) (D3) (D5) ds (D6) (I	c2) (Imagery (C
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recognition of the primary Indicators (Malagorian of the primary Indicators	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent 1 Stunted (87) Other (E	tained Leaves A 1, 2, 4A, a st (B11) Invertebrates in Sulfide Odo Rhizosphere e of Reduced ron Reductio	(B13) or (C1) s along Liv Iron (C4) n in Tilled	ving Root Soils (C6	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo FAC-N Raisec	ry Indicator Stained Le A, and 4B) age Patterns eason Wate tion Visible orphic Posit w Aquitard eutral Test	s (2 or m aves (B9) s (B10) r Table (i on Aeria ion (D2) (D3) (D5) ds (D6) (I	c2) (Imagery (C
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recognition of the primary Indicators (Malagorian of the primary Indicators	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent 1 Stunted (87) Other (E	rained Leaves A 1, 2, 4A, a st (B11) Invertebrates In Sulfide Odo Rhizosphere of Reduced ron Reductio or Stressed F	(B13) or (C1) s along Liv Iron (C4) n in Tilled	ving Root Soils (C6	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo FAC-N Raisec	ry Indicator Stained Le A, and 4B) age Patterns eason Wate tion Visible orphic Posit w Aquitard eutral Test I Ant Mound	s (2 or m aves (B9) s (B10) r Table (i on Aeria ion (D2) (D3) (D5) ds (D6) (I	c2) (Imagery (C
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one recognized Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations:	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent II Stunted (87) Other (E	ained Leaves A 1, 2, 4A, a at (B11) Invertebrates in Sulfide Odo Rhizosphere e of Reduced ron Reductio or Stressed F explain in Ren	(B13) or (C1) s along Liv Iron (C4) n in Tilled	ving Root Soils (C6	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo FAC-N Raisec	ry Indicator Stained Le A, and 4B) age Patterns eason Wate tion Visible orphic Posit w Aquitard eutral Test I Ant Mound	s (2 or m aves (B9) s (B10) r Table (i on Aeria ion (D2) (D3) (D5) ds (D6) (I	c2) (Imagery (C
Depth (inches): Remarks: Remarks: Remarks: Primary Indicators (minimum of one recognition of the primary Indicators (Mala) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent I Stunted 6 (B7) Other (E	ained Leaves A 1, 2, 4A, a at (B11) Invertebrates in Sulfide Odo Rhizosphere e of Reduced ron Reductio or Stressed F explain in Ren inches):	(B13) or (C1) s along Liv Iron (C4) n in Tilled	ving Root Soils (C6	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo FAC-N Raisec	ry Indicator Stained Le A, and 4B) age Patterns eason Wate tion Visible orphic Posit w Aquitard eutral Test I Ant Mound	s (2 or m aves (B9) s (B10) r Table (i on Aeria ion (D2) (D3) (D5) ds (D6) (I	c2) (Imagery (C
Depth (inches): Remarks:	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent I Stunted (B7) Other (E	ained Leaves A 1, 2, 4A, a at (B11) Invertebrates in Sulfide Odo Rhizosphere e of Reduced ron Reductio or Stressed F xplain in Ren inches):	(B13) or (C1) s along Liv Iron (C4) n in Tilled	Soils (C6) (LRR A)	s (C3)	Seconda Water 4. Draine Dry-Sc Satura Geom Shallo FAC-N Raisec	ry Indicator Stained Le A, and 4B) ge Patterns asson Wate tion Visible orphic Posit w Aquitard eutral Test I Ant Mount Heave Hum	s (2 or m aves (89) s (810) r Table (1 on Aeria ion (D2) (D3) (D5) ds (D6) (1 mocks (D	iore required (MLRA 1, 2 (C2) I Imagery (C LRR A)
Depth (inches): Remarks:	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent I Stunted 6 (B7) Other (E	ained Leaves A 1, 2, 4A, a at (B11) Invertebrates in Sulfide Odo Rhizosphere e of Reduced ron Reductio or Stressed F xplain in Ren inches):	(B13) or (C1) s along Liv Iron (C4) n in Tilled	Soils (C6) (LRR A)	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo FAC-N Raisec	ry Indicator Stained Le A, and 4B) ge Patterns asson Wate tion Visible orphic Posit w Aquitard eutral Test I Ant Mount Heave Hum	s (2 or m aves (B9) s (B10) r Table (i on Aeria ion (D2) (D3) (D5) ds (D6) (I	iore required (MLRA 1, 2 (C2) I Imagery (C LRR A)
Depth (inches): Remarks: Remarks: Remarks: Primary Indicators (minimum of one recognition of the primary Indicators (Mala) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Sincludes capillary fringe	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent II Stunted (87) Other (E8) No Depth (ii No Depth (iii	ained Leaves A 1, 2, 4A, at (B11) Invertebrates In Sulfide Odo Rhizosphere In Reduced In	nd 4B) (B13) (C1) s along Li Iron (C4) n in Tilled Plants (D1) narks)	Soils (C6) (LRR A)	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo FAC-N Raisee	ry Indicator Stained Le A, and 4B) ge Patterns asson Wate tion Visible orphic Posit w Aquitard eutral Test I Ant Mount Heave Hum	s (2 or m aves (89) s (810) r Table (1 on Aeria ion (D2) (D3) (D5) ds (D6) (1 mocks (D	iore required (MLRA 1, 2 (C2) I Imagery (C LRR A)
Depth (inches): Remarks:	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent II Stunted (87) Other (E8) No Depth (ii No Depth (iii	ained Leaves A 1, 2, 4A, at (B11) Invertebrates In Sulfide Odo Rhizosphere In Reduced In	nd 4B) (B13) (C1) s along Li Iron (C4) n in Tilled Plants (D1) narks)	Soils (C6) (LRR A)	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo FAC-N Raisee	ry Indicator Stained Le A, and 4B) ge Patterns asson Wate tion Visible orphic Posit w Aquitard eutral Test I Ant Mount Heave Hum	s (2 or m aves (89) s (810) r Table (1 on Aeria ion (D2) (D3) (D5) ds (D6) (1 mocks (D	iore required (MLRA 1, 2 (C2) I Imagery (C LRR A)
Depth (inches): Remarks: Remarks: Remarks: Primary Indicators (minimum of one recognition of the primary Indicators (Mala) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Sparsely Vegetated Concave Surface Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes Sincludes capillary fringe	Water-St MLR Salt Crus Aquatic 1 Hydroge Oxidized Presence Recent II Stunted (87) Other (E) (B8) No Depth (ii No Depth (iii	ained Leaves A 1, 2, 4A, at (B11) Invertebrates In Sulfide Odo Rhizosphere In Reduced In	nd 4B) (B13) (C1) s along Li Iron (C4) n in Tilled Plants (D1) narks)	Soils (C6) (LRR A)	s (C3)	Seconda Water 4. Draine Dry-Se Satura Geom Shallo FAC-N Raisee	ry Indicator Stained Le A, and 4B) ge Patterns asson Wate tion Visible orphic Posit w Aquitard eutral Test I Ant Mount Heave Hum	s (2 or m aves (89) s (810) r Table (1 on Aeria ion (D2) (D3) (D5) ds (D6) (1 mocks (D	iore required (MLRA 1, 2 (C2) I Imagery (C LRR A)

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

Project/Site: Altman Mercer Islan		Ci	ty/County:	King	Sampling Date: 5/15/2020
Applicant/Owner: Plan to Permit LLC/Altman		153	350 335	Sta	ste: wa Sampling Point: DP4
nvestigator(s): S Tomassi, B MacWhinney		Se	1000 1000	The second second	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
andform (hillslope, terrace, etc.): slope		17.4			nvex, none): none Slope (%): 10
Subregion (LRR): A					
					NWI Classification:
Are climatic / hydrologic conditions on the site typical	Alexander and a second	77.		U 7000 4 10	lo (If no, explain in Remarks.)
Are Vegetation □ , Soil □ , or Hydrology □					Normal Circumstances* present? • Yes O No
Are Vegetation □ , Soil □ , or Hydrology □		E9.	tic?		eded, explain any answers in Remarks.)
[18] 이 아이를 되었다고 말았다면 하다. 점점 하다면 하다 하다.					eations, transects, important features, etc.
Santan santananda - maga santa - maga	SSECTION		I	point ioc	adons, transects, important reatures, etc.
Hydrophytic Vegetation Present? O Yes Hydric Soil Present? O Yes	NoNo		Is the	Sampled	Area
Hydric Soil Present? O Yes Wetland Hydrology Present? O Yes	No		withi	n a Wetlan	d? O Yes ® No
Remarks:	9 110				
VEGETATION – Use scientific names of					Dominance Test worksheet:
Tree Stratum (Plot size: 30ft x 30ft)	Absolute % Cover	Dom. Sp.?	Relative % Cover	Indicator Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Thuja plicata	20	Y	28.6	FAC	Total Number of Dominant
Acer macrophyllum	50	Y	71.4	FACU	Species Across All Strata:5 (B)
4.					Percent of Dominant Species
	70	= Total	Cover		That Are OBL, FACW, or FAC: 40.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15ft x 15ft)					
Rubus spectabilis		<u>Y</u>		FAC	Prevalence Index worksheet:
2. Rubus parviflorus		<u>Y</u>	50.0	FACU	Total % Cover of: Multiply by:
3		-	—		OBL species 0 x 1 = 0
4		—			FACW species 0 x 2 = 0 FAC species 25 x 3 = 75
	10	= Total	Cover		FACU species 155 x 4 = 620
Herb Stratum (Plot size: 5ft x 5ft)	- 15		COTO		UPL species 0 x 5 = 0
1				FAC	Column Totals: 180 (A) 695 (B)
2.		_	=		I POST TO THE POST OF THE POST
3		_			Prevalence Index = B/A = 3.861
4		-			Hydrophytic Vegetation Indicators:
5					☐ 1 - Rapid Test for Hydrophytic Vegetation
6	6		-		2 - Dominance Test is >50%
<u></u>	.—	_			3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting)
8. 9.		-			data in Remarks or on a separate sheet)
10.	(i)	\$6 - US	in	1	☐ 5 - Wetland Non-Vascular Plants¹
11					☐ Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 5ft x 5ft)	(de 15	= Total	Cover		¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Hedera helix	100	Y	100.0	FACU	estados contras.
44.00					Hydrophytic
2		= Total	Cover		Vegetation
2	100	· Total	(77777)		Present? O Yes ® No

SOIL Sampling Point: DP4

Depth (inches) (Matrix		Redox Featu	res		
(inches)	Color (moist)	% Cold	or (moist) %	Type¹ Loc²	Texture	Remarks
0-10 10	0YR 3/2	100	Collegnado de Vermeso e		Silt Loam	5 STATE OF THE STA
Describino Re	0YR 3/2	97 10YF	R 4/6 3	C M	Silt Loam	
10-14	OTK SIZ	97 1071	(4/0 3	- <u> </u>	Siii Luani	
						
		-			· · · · · · · · · · · · · · · · · · ·	
91572	50 to 100	100-0	- 10 Mar		12 1 200	
						
- 0			-10		-	
222	0.0	0000	200 5-8-1 0		(A)	
*Time: C=Concer	testion D=Depletic	- Charleston	ed Matrix, CS::Covere	Coated Sped (Cosina 3 oc	ation: PL=Pore Lining, M=Matrix.
			in ass otherwise no		·	s for Problematic Hydric Soils*:
☐ Histosol (A1)			dy Redox (SS)	76.000		luck (A10)
☐ Histic Epipedor	- (42)		oped Matrix (S6)			rent Material (TF2)
☐ Black Histic (A		and the second second	my Mucky Mineral (F1	((oweget MI RA 1)		rent Material (1F2) nallow Dark Surface (TF12)
☐ Hydrogen Sulfi			my Gleyed Matrix (F2)			Explain in Remarks)
			my Gleyed Matrix (F2) leted Matrix (F3))	LI Oute (Explain in Kernarks)
THE PROPERTY OF STREET	w Dark Surface (A1)				20 20 00	40 07 07 20 00 00 00
☐ Thick Dark Sur			ox Dark Surface (F6)			s of hydrophytic wagetation and
☐ Sandy Mucky N		The second secon	leted Dark Surface (F	2)	Agencie alecteria	ydrology must be present,
☐ Sandy Gleyed I	0.00	LI Neur	ox Depressions (F8)		Uniess un	sturbed or problematic.
Restrictive Layer	r (if present):					
Type:						2200 SQ.
Depth (inches	s);				Hydric Soil Pre	sent? O Yes @ No
HYDROLOGY						
Wetland Hydrolo	ogy Indicators:	22.00 Zz 20 Zz			2	
Wetland Hydrolo Primary Indicators	ogy Indicators: rs (minimum of one			- Inol Europh		/ Indicators (2 or more required)
Wetland Hydrolo Primary Indicators Surface Water	ogy Indicators: rs (minimum of one (A1)		Water-Stained Leave		☐ Water-	Stained Leaves (89) (MLRA 1, 2,
Wetland Hydrolo Primary Indicator ☐ Surface Water ☐ High Water Tal	ogy Indicators: rs (minimum of one (A1) ble (A2)		Water-Stained Leave MLRA 1, 2, 4A, a		☐ Water-:	Stained Leaves (B9) (MLRA 1, 2, , and 4B)
Wetland Hydrolo Primary Indicator: ☐ Surface Water ☐ High Water Tal ☐ Saturation (A3)	ogy Indicators: rs (minimum of one (A1) ble (A2)	0	Water-Stained Leave MLRA 1, 2, 4A, a Salt Crust (B11)	and 4B)	☐ Water-3 4A ☐ Drainag	Stained Leaves (89) (MLRA 1, 2, , and 4B) ge Patterns (810)
Wetland Hydrolo Primary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (E	ogy Indicators: rs (minimum of one (A1) ble (A2)) B1)	0	Water-Stained Leave MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates	and 4B) s (B13)	☐ Water-: 4A ☐ Drainag ☐ Dry-Sea	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) ason Water Table (C2)
Wetland Hydrolo Primary Indicator □ Surface Water □ High Water Tal □ Saturation (A3) □ Water Marks (E □ Sediment Depo	ogy Indicators: rs (minimum of one (A1) ble (A2)) B1) osits (B2)	000	Water-Stained Leave MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od	and 4B) s (B13) lor (C1)	☐ Water-: 4A ☐ Drainag ☐ Dry-Se: ☐ Saturat	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9)
Wetland Hydrolo Primary Indicator Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo	ogy Indicators: rs (minimum of one (A1) ble (A2)) B1) osits (B2) (B3)	0000	Water-Stained Leave MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrate Hydrogen Sulfide Od Oxidized Rhizosphere	and 4B) s (B13) for (C1) es along Living Root	☐ Water-1 4A ☐ Drainag ☐ Dry-Sei ☐ Saturat Is (C3) ☐ Geomo	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2)
Wetland Hydrolo Primary Indicator Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr	ogy Indicators: rs (minimum of one (A1) ble (A2)) B1) osits (B2) (B3) rust (B4)	00000	Water-Stained Leave MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizosphere Presence of Reduced	and 4B) s (B13) for (C1) es along Living Root i Iron (C4)	□ Water-1 4A □ Drainag □ Dry-Sei □ Saturat Is (C3) □ Geomo □ Shallow	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) Aquitard (D3)
Wetland Hydrolo Primary Indicator: Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (ogy Indicators: is (minimum of one (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5)	00000	Water-Stained Leave MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction	and 4B) s (B13) for (C1) es along Living Root f Iron (C4) on in Tilled Soils (C6	Water-1 4A	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) Aquitard (D3) utral Test (D5)
Wetland Hydrolo Primary Indicators Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cri	ogy Indicators: rs (minimum of one (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) racks (B6)	000000	Water-Stained Leave MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizosphere Presence of Reduced Recent Iron Reductio Stunted or Stressed I	and 4B) s (B13) for (C1) es along Living Root f Iron (C4) on in Tilled Soils (C6 Plants (D1) (LRR A)	Water-1 4A	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRR A)
Wetland Hydrolo Primary Indicator: Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cri Inundation Visi	ogy Indicators: rs (minimum of one (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) racks (B6) ible on Aerial Image		Water-Stained Leave MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction	and 4B) s (B13) for (C1) es along Living Root f Iron (C4) on in Tilled Soils (C6 Plants (D1) (LRR A)	Water-1 4A	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) Aquitard (D3) utral Test (D5)
Wetland Hydrolo Primary Indicator: Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cr Inundation Visi Sparsely Veget	ogy Indicators: rs (minimum of one (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) acks (B6) sible on Aerial Image		Water-Stained Leave MLRA 1, 2, 4A, a Salt Crust (B11) Aquatic Invertebrates Hydrogen Sulfide Od Oxidized Rhizosphere Presence of Reduced Recent Iron Reductio Stunted or Stressed I	and 4B) s (B13) for (C1) es along Living Root f Iron (C4) on in Tilled Soils (C6 Plants (D1) (LRR A)	Water-1 4A	Stained Leaves (B9) (MLRA 1, 2, , and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Aerial Imagery (C9) rphic Position (D2) Aquitard (D3) sutral Test (D5) Ant Mounds (D6) (LRR A)
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