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November 21, 2018

AOA-5820

Blake Hoefer 15024 – 66th Ct. NE Kenmore, WA 98028

SUBJECT: Critical Areas Designation (CADS18-0398)

Parcel 342107-9044, King County, WA

Dear Blake:

On November 6, 2018 AOA conducted a wetland and stream reconnaissance on the undeveloped and mostly forested subject property utilizing the methodology outlined in the May 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0).

One stream (Stream 1) and one wetland mosaic (Wetland A) were identified in the northeastern portion of the property during the field investigation. Wetland A consists of a Slope Hydrogeomorphic (HGM) class wetland that drains down from east to west into Stream1, which drains from south to north in a small channel located along the east side of an old logging road that provided historic access to the site. The western side of the ordinary high water (OHW) of Stream 1 was delineated during the field investigation with pink flagging labelled OHW 1-1 through OHW 1-15 (**Attachment A**).

Hydrologic support to Wetland A and Stream 1 is from groundwater seepage on the hillside. Runoff within the stream drains north under East Lake Walker Dr. SE and eventually enters Lake Walker. Vegetation within the Wetland A mosaic consisted of a forested and scrub-shrub plant community that was dominated by red alder (*Alnus rubra*) and salmonberry (*Rubus spectabilis*). Vegetation within the remainder of the site consisted primarily of a mixed upland forest that included western red cedar (*Thuja plicata*), big-leaf maple (*Acer macrophyllum*), red alder, western hemlock (*Tsuga heterophylla*), salmonberry, vine maple (*Acer circinatum*), devil's club (*Oplopanax horridus*), red elderberry (*Sambucus racemosa*), and sword fern (*Polystichum munitum*).

Blake Hoefer November 21, 2018 Page 2

Stream 1 meets the criteria for a Type N Aquatic Area and requires a standard 65-foot buffer plus 15-foot building setback from the OHW of the stream. Wetland A meets the criteria for a Category III wetland with 19 Habitat Points (**Attachment B**). Category III wetlands with 19 Habitat Points require a standard 60-foot buffer plus 15-foot building setback from the wetland edge. Since the wetland is located entirely to the east of the stream in the vicinity of the existing old access road, the stream buffer would be more restrictive in this area.

The approximate location of the delineated OHW of Stream 1 and the undelineated Wetland A mosaic is depicted on the attached sketch for the Critical Areas Designation (CAD). It is my recommendation that as part of any permit submittal to the King County Department of Permitting and Environmental Review (DPER) that the wetland boundary be delineated if necessary and the wetland and stream be surveyed.

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

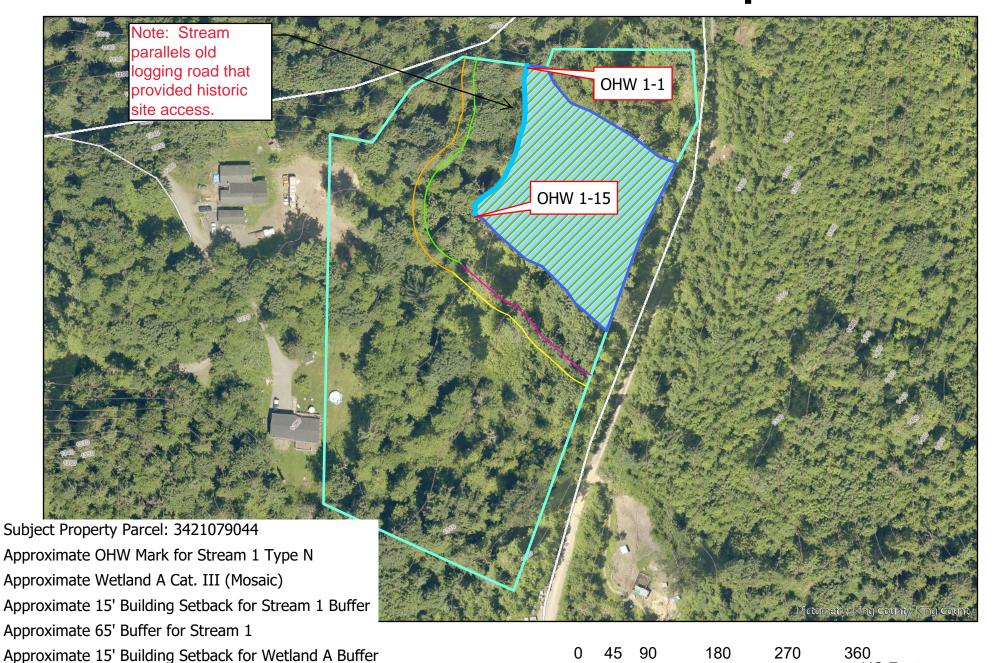
Sincerely,

ALTMANN OLIVER ASSOCIATES, LLC

John Altmann Ecologist

Attachments

Critical Areas Map



■US Feet

— Approximate 60' Buffer for Wetland A

ATTACHMENT B WETLAND RATING

WETLAND RATING FORM – WESTERN WASHINGTON

Version 2 - Updated July 2006 to increase accuracy and reproducibility among users Updated Oct 2008 with the new WDFW definitions for priority habitats

Name of wetland (if known): PARCEL 3	342107-9044 Date of site visit: 11/6/1
Rated by ALTMANN T	rained by Ecology? Yes XNo Date of training C
SEC: 34 TWNSHP: 21N RNGE: 76 Is S	7/T/R in Appendix D? Yes No_⊀_
Map of wetland unit: Figu	re Estimated size
SUMMA	Score for Hydrologic Functions ategory II = Score 30-50 ategory IV = Score < 30 TOTAL score for Functions TOTAL score for Functions TOTAL score for Functions TOTAL score for Functions TOTAL score for Functions TOTAL score for Functions TOTAL score for Functions TOTAL score for Functions TOTAL score for Functions TOTAL score for Functions TOTAL score for Functions TOTAL score for Hydrologic Functions FOURTH SCORE FOR Habitat Functions TOTAL score for Hydrologic Functions TOTAL score for Habitat Functions TOTAL score for Hab
Category based on FUNCTIONS pro	ovided by wetland
I II III_* IV	
I II Does not Apply_> Final Category (choose t	Score for Hydrologic Functions Score for Habitat Functions TOTAL score for Functions ACTERISTICS of wetland the "highest" category from above)
Characteristics	used for Rating
Natural Heritage Wetland	
Old Growth Forest	Flats
Coastal Lagoon	Freshwater Tidal
Interdunal	

None of the above

Check if unit has multiple HGM classes present

S	Slope Wetlands WATER QUALITY FUNCTIONS - Indicators that the wetland unit functions to improve water quality	Points (only 1 score per box)
S	S 1. Does the wetland unit have the <u>potential</u> to improve water quality?	(see p.64)
S	S 1.1 Characteristics of average slope of unit: Slope is 1% or less (a 1% slope has a 1 foot vertical drop in elevation for every 100 ft horizontal distance) Slope is 1% - 2% Slope is 2% - 5% Slope is greater than 5% points = 1 points = 0	0
S	S 1.2 The soil 2 inches below the surface (or duff layer) is clay or organic (use NRCS definitions) YES = 3 points NO 6 points	0
S	S 1.3 Characteristics of the vegetation in the wetland that trap sediments and pollutants: Choose the points appropriate for the description that best fits the vegetation in the wetland. Dense vegetation means you have trouble seeing the soil surface (>75% cover), and uncut means not grazed or mowed and plants are higher than 6 inches. Dense, uncut, herbaceous vegetation > 90% of the wetland area points = 6 Dense, uncut, herbaceous vegetation > 1/2 of area points = 2 Dense, woody, vegetation > 1/2 of area points = 1 Does not meet any of the criteria above for vegetation polygons	Figure
S	Total for S 1 Add the points in the boxes above	3
S	S 2. Does the wetland unit have the <u>opportunity</u> to improve water quality? Answer YES if you know or believe there are pollutants in groundwater or surface water coming into the wetland that would otherwise reduce water quality in streams, lakes or groundwater downgradient from the wetland. Note which of the following conditions provide the sources of pollutants. A unit may have pollutants coming from several sources, but any single source would qualify as opportunity.	(see p.67)
	 — Grazing in the wetland or within 150ft — Untreated stormwater discharges to wetland — Tilled fields, logging, or orchards within 150 feet of wetland — Residential, urban areas, or golf courses are within 150 ft upslope of wetland — Other	multiplier
S	TOTAL - Water Quality Functions Multiply the score from S1 by S2 Add score to table on p. 1	3

Comments

S	Slope Wetlands HYDROLOGIC FUNCTIONS - Indicators that the wetland unit functions to reduce flooding and stream erosion	Points (only 1 score per box)
	S 3. Does the wetland unit have the <u>potential</u> to reduce flooding and stream erosion?	(see p.68)
S	S 3.1 Characteristics of vegetation that reduce the velocity of surface flows during storms. Choose the points appropriate for the description that best fit conditions in the wetland. (stems of plants should be thick enough (usually > 1/8in), or dense enough, to remain erect during surface flows) Dense, uncut, rigid vegetation covers > 90% of the area of the wetland. Dense, uncut, rigid vegetation > 1/2 area of wetland Dense, uncut, rigid vegetation > 1/4 area More than 1/4 of area is grazed, mowed, tilled or vegetation is not rigid points = 0	3
S	S 3.2 Characteristics of slope wetland that holds back small amounts of flood flows: The slope wetland has small surface depressions that can retain water over at least 10% of its area. YES points 2 NO points = 0	2
S	Add the points in the boxes above	5
S	S 4. Does the wetland have the <u>opportunity</u> to reduce flooding and erosion? Is the wetland in a landscape position where the reduction in water velocity it provides helps protect downstream property and aquatic resources from flooding or excessive and/or erosive flows? <i>Note which of the following conditions apply.</i> Wetland has surface runoff that drains to a river or stream that has flooding	(see p. 70)
	problems — Other	multiplier
	(Answer NO if the major source of water is controlled by a reservoir (e.g. wetland is a seep that is on the downstream side of a dam) YES multiplier (s 2) NO multiplier is 1	2
S	TOTAL - Hydrologic Functions Multiply the score from S 3 by S 4 Add score to table on p. 1	10

Comments

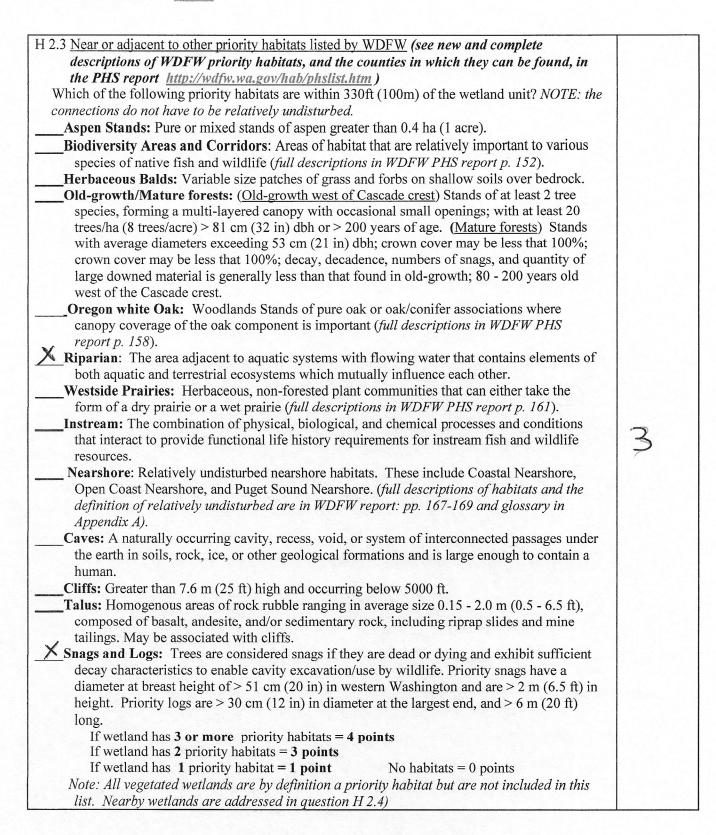
These questions apply to wetlands of all I HABITAT FUNCTIONS - Indicators that unit fu		Points (only 1 score per box)
H 1. Does the wetland unit have the potential t	to provide habitat for many species?	
H 1.1 Vegetation structure (see p. 72) Check the types of vegetation classes present (as declass is ¼ acre or more than 10% of the area if a Aquatic bed Emergent plants Scrub/shrub (areas where shrubs have > 2000)	unit is smaller than 2.5 acres. 30% cover)	Figure
Forested (areas where trees have >30% of If the unit has a forested class check if:	(canopy, sub-canopy, shrubs, herbaceous, 20% within the forested polygon fy. If you have:	2
Map of Cowardin vegetation classes	4 structures or more points = 4 3 structures points = 2 2 structures points = 1 1 structure points = 0	
H 1.2. Hydroperiods (see p. 73) Check the types of water regimes (hydroperiod. regime has to cover more than 10% of the wetland descriptions of hydroperiods) Permanently flooded or inundated Seasonally flooded or inundated Occasionally flooded or inundated X Saturated only Permanently flowing stream or river in, of Seasonally flowing stream in, or adjacent Lake-fringe wetland = 2 points	4 or more types present points = 3 3 types present points = 2 2 types present point = 0 1 type present points = 0 or adjacent to, the wetland	Figure
Freshwater tidal wetland = 2 points H 1.3. Richness of Plant Species (see p. 75) Count the number of plant species in the wetlar of the same species can be combined to meet the You do not have to name the species. Do not include Eurasian Milfoil, reed cana If you counted: List species below if you want to:	he size threshold) urygrass, purple loosestrife, Canadian Thistle	

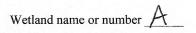
classes (described in H 1.1), or the classes and unvegetated areas (can include open water or mudflats) is high, medium, low, or none. None = 0 points Low = 1 point Moderate 2 points NOTE: If you have four or more classes or three vegetation classes and open water the rating is always "high". Use map of Cowardin vegetation classes and open water the rating is always "high". Use map of Cowardin vegetation classes H 1.5. Special Habitat Features: (see p. 77) Check the habitat features that are present in the wetland. The number of checks is the number of points you put into the next column. Large, downed, woody debris within the wetland (>4 inches) in the wetland Undercut banks are present for at least 6.6 ft (2m) and/or overhanging vegetation extends at least 3.3 ft (10m) over a stream (or ditch) in, or contiguous with the unit, for at least 33 ft (10m) Stable steep banks of fine material that might be used by beaver or muskrat for denning (>30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet turned grey/brown) At least ¼ acre of thin-stemmed persistent vegetation or woody branches are present in areas that are permanently or seasonally inundated. (structures for egg-laying by amphibians) Invasive plants cover less than 25% of the wetland area in each stratum of plants NOTE: The 20% stated in early printings of the manual on page 78 is an error.	1 1.4. <u>Interspersion of habitats (see p. 76)</u> Decide from the diagrams below whether interspersion between Cowardin vegetation	Figure
None = 0 points Low = 1 point Moderate 2 points Pligh = 3 points NOTE: If you have four or more classes or three vegetation classes and open water the rating is always "high". Use map of Cowardin vegetation classes H 1.5. Special Habitat Features: (see p. 77) Check the habitat features that are present in the wetland. The number of checks is the number of points you put into the next column. Large, downed, woody debris within the wetland (>4 in. diameter and 6 ft long). X Standing snags (diameter at the bottom > 4 inches) in the wetland Undercut banks are present for at least 6.6 ft (2m) and/or overhanging vegetation extends at least 3.3 ft (1m) over a stream (or ditch) in, or contiguous with the unit, for at least 33 ft (10m) Stable steep banks of fine material that might be used by beaver or muskrat for denning (>30 degree slope) OR signs of recent beaver activity are present (cut shrubs or trees that have not yet turned grey/brown) At least ¼ acre of thin-stemmed persistent vegetation or woody branches are present in areas that are permanently or seasonally inundated. (structures for egg-laying by amphibians) Invasive plants cover less than 25% of the wetland area in each stratum of plants NOTE: The 20% stated in early printings of the manual on page 78 is an error.	classes (described in H 1.1), or the classes and unvegetated areas (can include open water or	
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Invasive plants cover less than 25% of the wetland area in each stratum of plants NOTE: The 20% stated in early printings of the manual on page 78 is an error.		
H 1. TOTAL Score - potential for providing habitat	NOTE: The 20% stated in early printings of the manual on page 78 is an error.	
Add the scores from H1.1, H1.2, H1.3, H1.4, H1.5	하는 사람들은 사람들이 되었다면 하는 사람들이 되었다면 하는데	9

Comments

H 2. Does the wetland unit have the opportunity to provide habitat for many species?	Eiguro
Choose the description that best represents condition of buffer of wetland unit. The highest scoring criterion that applies to the wetland is to be used in the rating. See text for definition of sundisturbed." — 100 m (330ft) of relatively undisturbed vegetated areas, rocky areas, or open water >95% of circumference. No structures are within the undisturbed part of buffer. (relatively undisturbed also means no-grazing, no landscaping, no daily human use) Points = 5 — 100 m (330 ft) of relatively undisturbed vegetated areas, rocky areas, or open water > 50% circumference. Points = 4 — 50 m (170ft) of relatively undisturbed vegetated areas, rocky areas, or open water >95% circumference. Points = 4 — 100 m (330ft) of relatively undisturbed vegetated areas, rocky areas, or open water >25% circumference, Points = 3 — 50 m (170ft) of relatively undisturbed vegetated areas, rocky areas, or open water for > 50% circumference. Points = 3 If buffer does not meet any of the criteria above — No paved areas (except paved trails) or buildings within 25 m (80ft) of wetland > 95% circumference. Light to moderate grazing, or lawns are OK. Points = 1 — Vegetated buffers are <2m wide (6.6ft) for more than 95% of the circumference (e.g. tilled fields, paving, basalt bedrock extend to edge of wetland Points = 0 Points = 1 Aerial photo showing buffers	Figure _
H 2.2 Corridors and Connections (see p. 81) H 2.2.1 Is the wetland part of a relatively undisturbed and unbroken vegetated corridor (either riparian or upland) that is at least 150 ft wide, has at least 30% cover of shrubs, forest or native undisturbed prairie, that connects to estuaries, other wetlands or undisturbed uplands that are at least 250 acres in size? (dams in riparian corridors, heavily used gravel roads, paved roads, are considered breaks in the corridor) YES = 4 points (go to H 2.3) H 2.2.2 Is the wetland part of a relatively undisturbed and unbroken vegetated corridor (either riparian or upland) that is at least 50ft wide, has at least 30% cover of shrubs or forest, and connects to estuaries, other wetlands or undisturbed uplands that are at least 25 acres in size? OR a Lake-fringe wetland, if it does not have an undisturbed corridor as in the question above? YES = 2 points (go to H 2.3) NO = H 2.2.3 H 2.2.3 Is the wetland: within 5 mi (8km) of a brackish or salt water estuary OR within 3 mi of a large field or pasture (>40 acres) OR within 1 mi of a lake greater than 20 acres? YES = 1 point NO = 0 points	2

Total for page 4





There are at least 3 other wetlands within ½ mile, and the connections between them are relatively undisturbed (light grazing between wetlands OK, as is lake shore with some boating, but connections should NOT be bisected by paved roads, fill, fields, or other development. The wetland is Lake-fringe on a lake with little disturbance and there are 3 other lake-fringe wetlands within ½ mile There are at least 3 other wetlands within ½ mile, BUT the connections between them are disturbed The wetland is Lake-fringe on a lake with disturbance and there are 3 other lake-fringe wetland within ½ mile There is at least 1 wetland within ½ mile. There are no wetlands within ½ mile. There are no wetlands within ½ mile.	3
H 2. TOTAL Score - opportunity for providing habitat Add the scores from H2.1,H2.2, H2.3, H2.4	10
TOTAL for H 1 from page 14	9
Fotal Score for Habitat Functions – add the points for H 1, H 2 and record the result on p. 1	19