

July 12, 2021

H3D LLC Hoa Hoang 7929 E Mercer Way Mercer Island, WA 98040

RE: Wetland and Stream Determination Report for King County Parcel 3024059176, Located at 7929 East Mercer Way

Wetland Resources, Inc. (WRI) performed a site investigation of the property located at 7929 East Mercer Way, Mercer Island, Washington on June 30, 2021. The site investigation included detailed physical inspection within the subject property, and visual inspection from the edge of legal access (rights-of-way and subject property). The purpose of the visit was to identify regulated wetlands, FWHCAs, and watercourses, both on and near the subject property. All other critical areas are outside the scope of this work.

SITE DESCRIPTION

The 0.7-acre subject site is in a residential area, located in the southeast area of Mercer Island. A single-family residence and driveway are present on the property. The north and west areas of the site are forested and maintained landscaping is present adjacent to the house. Typical vegetation in the forested areas includes Douglas fir (*Pseudotsuga menziesii*), big leaf maple (*Acer macrophyllum*), beaked hazelnut (*Corylus comuta*), Himalayan blackberry (*Rubus armeniacus*), dull Oregon grape (*Mahonia nervosa*), and sword fern (*Polystichum munitum*). Topography of the property slopes steeply to the southeast, toward Lake Washington.

REVIEW OF EXISTING RESOURCES

Prior to conducting the site reconnaissance, public resource information was reviewed to gather background information on the subject property and the surrounding area in regards to wetlands, streams, and other critical areas. These sources included the included the following:

- <u>United States Fish and Wildlife Service (USFWS) National Wetlands Inventory</u>
 The National Wetlands Inventory shows Lake Washington to the southeast of the property.
 No wetlands or streams are shown on the property.
- <u>USDA/Natural Resources Conservation Service (NRCS) Web Soil Survey</u>
 <u>USDA/NRCS Web Soil Survey maps the soils underlying the site Kitsap silt loam 15 to 30 percent slopes.</u>

• WDFW Priority Habitat and Species (PHS) Interactive Map

WDFW PHS Mapper does not identify any priority habitats or species on the parcel. The closest documented habitat/species is Lake Washington, approximately 700 feet to the southeast. The lake is documented as habitat for multiple species of salmonids.

• WDNR Forest Practices Application Mapping Tool (FPAMT)

WA DNR FPAMT shows Lake Washington as a "Shoreline of the State" and does not show any streams within the vicinity of the site.

• City of Mercer Island GIS Portal

This resource does not show any watercourses on the property. The closest watercourse is a Type Np stream located to the northeast of the site and the 60-foot buffer shown does not extend onto the subject parcel. The property is mapped as a Landslide Area and a Protected Slope Area.

WETLAND AND STREAM DETERMINATION METHODOLOGY

The ordinary high water marks (OHWM) of streams and waterbodies, if present, were identified using the methodology described in: *Determining the Ordinary High Water Mark for Shoreline Management Act Compliance in Washington State* (Anderson et al 2016).

Wetland areas, if present, were determined using the routine determination approach described in the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0) (U.S. Army Corps of Engineers 2010). Under the routine methodology, the process for making a wetland determination is based on three steps:

- 1.) Examination of the site for hydrophytic vegetation (species present and percent cover);
- 2.) Examination of the site for hydric soils;
- 3.) Determining the presence of wetland hydrology

BOUNDARY DETERMINATION FINDINGS

Vegetation on the site consists of installed ornamental plants within the landscaped areas near the house. The forested areas consist of: Douglas fir (*Pseudotsuga menziesii*), big leaf maple (*Acer macrophyllum*), beaked hazelnut (*Corylus cornuta*), Himalayan blackberry (*Rubus armeniacus*), dull Oregon grape (*Mahonia nervosa*), and sword fern (*Polystichum munitum*). Soils on the site are generally black (10YR 2/1) in the upper layer and dark brown (10YR 4/1) in the sublayer. Soils are typically a sandy loam throughout the profile and no redoximorphic features were observed in sampled soils. Soils were dry during the June 2021 site visit and no indications of prolonged inundation, saturation, or high water table were observed. Dominant vegetation communities were distinctly upland, soils do not meet hydric indicators, and evidence of wetland hydrology was not observed within 20 inches of the ground surface. The site conditions do not meet the criteria for wetlands as described above. No wetlands are present on the site.

During the site investigation, no surface water or flow paths were observed. No evidence of any scoured soils, sorted material, defined bed or bank, debris wracking, or other indications of regularly occurring surface flow were observed. No watercourses are present on the site.

USE OF THIS REPORT

This Wetland and Stream Determination Report has been prepared for H3D, LLC to assist with identifying on-site and nearby critical areas. This report is based largely on readily observable conditions and, to a lesser extent, on readily ascertainable conditions. No attempt has been made to determine hidden or concealed conditions.

The laws applicable to critical areas are subject to varying interpretations and may be changed at any time by the courts or legislative bodies. This report is intended to provide information deemed relevant in the applicant's attempt to comply with the laws now in effect.

This report conforms to the standard of care employed by ecologists. No other representation or warranty is made concerning the work or this report, and any implied representation or warranty is disclaimed.

Wetland Resources, Inc.

Meryl Kamowski, PWS

Senior Ecologist

Enclosures: Wetland Determination Data Form

Mengl A. Kamonyni

Existing Conditions Map (Sheet 1/1)

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

Project/Site: 7929 E Mercer Way	City/County: Mercer Island/King Sampling Date: 6/30/21										
Applicant/Owner: H3D, LLC				State: WA	Sampling Point: S1						
Investigator(s): MK			_ Section, To	ownship, Range: S30, T24	, R05E						
	Local relief (concave, convex, none): Slope (%): ~30%										
Subregion (LRR): LRR A	Lat: _47°	31'53.5	7"N	Long: 122°13'15.56"W	Datum:						
Soil Map Unit Name: Kitsap silt loam 15 to 30 percent sle	opes			NWI classificat	ion: none						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)											
Are Vegetation, Soil, or Hydrology significantly disturbed?											
Are Vegetation , Soil , or Hydrology natura	•			d, explain any answers in R							
SUMMARY OF FINDINGS – Attach site map											
			mg pomit i								
Hydrophytic Vegetation Present? Yes No	I IS LITE SAITINIEU ALEA										
Hydric Soil Present? Western de Hydrology Present?		wi	ithin a Wetlar	nd? Yes No							
Wetland Hydrology Present? Yes No	No V										
Near toe of steep slope, above driveway.											
Near toe or steep slope, above univeway.											
VEGETATION – Use scientific names of plan	ts.										
	Absolute		nt Indicator	Dominance Test works	heet:						
Tree Stratum (Plot size:			s? Status	Number of Dominant Spo							
1. Pseudotsuga menziesii	70 30	- Y Y	FACU	That Are OBL, FACW, or	r FAC: <u>0</u> (A)						
2. Acer macrophyllum		-	FACU	Total Number of Domina	_						
3				Species Across All Strata	a: <u>5</u> (B)						
4	100	- Total	Cover	Percent of Dominant Spe							
Sapling/Shrub Stratum (Plot size:	100	= Total	Cover	That Are OBL, FACW, or	r FAC: <u>0</u> (A/B)						
1. Corylus cornuta	35	Υ	FACU	Prevalence Index work	sheet:						
2. Mahonia nervosa	15	Y	FACU	Total % Cover of:	Multiply by:						
3. Rubus armeniacus	10	N	FAC	OBL species	x 1 = <u>0</u>						
4					x 2 = 0						
5					x 3 = 0						
Harb Chrahum (Diet sine)	60 = Total Cover			FACU species							
Herb Stratum (Plot size: 1. Polystichum munitum	25	V	FACU	UPL species							
				Column Totals: 0	(A) <u>0</u> (B)						
2				Prevalence Index	= B/A =						
4				Hydrophytic Vegetation							
5				Rapid Test for Hydro	phytic Vegetation						
6.				Dominance Test is >	50%						
7.				Prevalence Index is :	≤3.0 ¹						
8					ations ¹ (Provide supporting						
9					or on a separate sheet)						
10				Wetland Non-Vascul	ar Plants nytic Vegetation ¹ (Explain)						
11.				1 .	, , ,						
Woody Vine Stratum (Plot size:	25	= Total	Cover	be present, unless distur	and wetland hydrology must bed or problematic.						
1											
2				Hydrophytic							
		= Total	Cover	Vegetation Present? Yes	□ No ✓						
% Bare Ground in Herb Stratum											
Remarks:											

Sampling Point: S1

Depth	Matrix			x Features		_		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4	10YR 2/1	100					SL	
4-18	10YR 3/3	100					SL	
				-				
	-			-				-
				=				
				_				
Type: C=C	oncentration, D=De	pletion. RM	=Reduced Matrix, CS	S=Covered	d or Coate	ed Sand Gr	rains. ² Loc	cation: PL=Pore Lining, M=Matrix.
•			LRRs, unless other			ou ound on		ors for Problematic Hydric Soils ³ :
Histosol			Sandy Redox (S		·		2 cm	Muck (A10)
_	pipedon (A2)		Stripped Matrix				_	Parent Material (TF2)
Black Hi	` '		Loamy Mucky M			MLRA 1)	☐ Very	Shallow Dark Surface (TF12)
= ' '	n Sulfide (A4)		Loamy Gleyed N)		Othe	er (Explain in Remarks)
	Below Dark Surface	ce (A11)	Depleted Matrix	. ,			3,	an affection but
_	ark Surface (A12)		Redox Dark Sur	` '	7\			ors of hydrophytic vegetation and
_	lucky Mineral (S1) sleyed Matrix (S4)		Depleted Dark S Redox Depressi	•	/)			nd hydrology must be present, s disturbed or problematic.
	Layer (if present):		☐ Redox Deplessi	ions (Fo)			unies	is disturbed of problematic.
Type:	_u, c. (p. ccc).							
	ches):						Hydric Soil	Present? Yes No
Remarks:	,						Tiyano con	11050Ht. 105 H0
VDDOLO	-OV							
YDROLO								
-	drology Indicators		di alaadi alliklast asad	\			0	adam : Indiantam (2 an mana na minad)
		one require	d; check all that appl		(5.6) (ndary Indicators (2 or more required)
	Water (A1)					xcept MLR	KA LL W	ater-Stained Leaves (B9) (MLRA 1, 2,
= -	ter Table (A2)			A, and 4B))			4A, and 4B)
Saturation	` '		Salt Crust	,	(D40)			rainage Patterns (B10)
	arks (B1)		Aquatic Inv				_	ry-Season Water Table (C2)
	nt Deposits (B2)		Hydrogen S		` '	Livina Doot		aturation Visible on Aerial Imagery (C9)
= '	oosits (B3)		Presence of		-	Living Root		eomorphic Position (D2)
_	et or Crust (B4) Hosits (B5)		_		•	+) d Soils (C6)		nallow Aquitard (D3) AC-Neutral Test (D5)
= :	Soil Cracks (B6)		_			1) (LRR A)		aised Ant Mounds (D6) (LRR A)
=	on Visible on Aerial	Imagery (R	_		•	· / (LIXIX A)	_	rost-Heave Hummocks (D7)
_	Vegetated Concav			iaiii iii ittoi	nanco)		ш	ost-ricave riuminocks (Br)
ield Obser		- Carrage (20)					
		Yes No	Depth (inches	:).				
Water Table			Depth (inches					
						Moto	and Hudralaa	y Present? Yes No
Saturation P (includes ca	resent? pillary fringe)	Yes No	Depth (inches	o)		wella	and Hydrolog	y Present? Yes∐ No[✔]
		m gauge, m	onitoring well, aerial	photos, pre	evious ins	spections),	if available:	
D								
Remarks:								

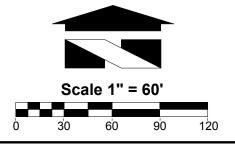
EXISTING CONDITIONS MAP H3D LLC - E MERCER WAY

PORTION OF SECTION, TOWNSHIP N, RANGE E, W.M.



PLEASE NOTE: THIS MAP IS APPROXIMATE FOR PLANNING AND DISCUSSION PURPOSES ONLY. THIS DOES NOT REPRESENT A SURVEY. THE DATA SITE AND PROPERTY LINE LOCATIONS ARE APPROXIMATE. THE LOCATIONS SHOWN ON THIS MAP SHOULD NOT BE USED TO CREATE A FORMAL SITE LAYOUT.

PROPERTY BOUNDARY S1 DATA SITE



Wetland Resources, Inc.

9505 19th Avenue S.E. Suite 106 Everett, Washington 98208 Phone: (425) 337-3174

Fax: (425) 337-3045

Email: mailbox@wetlandresources .com

EXISTING CONDITIONS MAP H3D. LLC - E MERCER WAY CITY OF MERCER ISLAND

H3D, LLC Hoa Hoang 7929 E Mercer Way Mercer Island, WA 98040

Sheet 1/1 WRI #: 21190 Drawn by: MK Date: 07/12/2021