WETLAND DETERMINATION DATA FORM - Alaska Region

roject	t/Site: Susitna-Watana Hydi	oelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Aug-15
Applica	ant/Owner: Alaska Energy A	uthority				Sampling Point: SW15_T316_02
nvesti	gator(s): WAD, SCB			Landform (hills	side, terrac	e, hummocks etc.): Hillside
ocal r	relief (concave, convex, none):	convex		Slope: 99.9	% / 45.0	D° Elevation:
ubreg	gion: Cook Inlet Mountains		Lat.:			Long.: Datum: WGS84
oil Ma	ap Unit Name:		_			NWI classification: Upland
	matic/hydrologic conditions on	the site typical for this t	ime of vear	? Yes	No ○	(If no, explain in Remarks.)
	/egetation , Soil		-	disturbed?		ormal Circumstances" present? Yes No
	/egetation , Soil	. , ., .	naturally pr			ded, explain any answers in Remarks.)
UMI	MARY OF FINDINGS - A	•		ipling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Prese					
	Hydric Soil Present?	Yes O No 🤄				pled Area etland? Yes ○ No ◉
	Wetland Hydrology Present?	Yes O No 🤄		Wi	thin a W	etland? Yes UNO 🖲
Rema	arks: Moose scat, carnivore (co	yote?) scat, sighted pai	ir of warble	rs on plot		
EGE	ETATION - Use scientific	names of plants. L	ist all spe	ecies in the	plot.	Dominance Test worksheet:
Tre	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1.	Betula neoalaskana		10	✓	FACU	That are OBL, FACW, or FAC: 4 (A)
2.	Picea glauca		1		FACU	Total Number of Dominant Species Across All Strata: 5 (B)
3.			0			Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: 80.0% (A/B)
5.			0			Prevalence Index worksheet:
		Total Cover	r: <u>11</u>			Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum	50% of Total Cover:	5.5 20%	of Total Cover:	2.2	OBL Species x 1 =
1.	Betula glandulosa		40	✓	FAC	FACW Species <u>20</u> x 2 = <u>40</u>
2.	Rhododendron tomentosum		20	✓	FACW	FAC Species 90 x 3 = 270
3.	Vaccinium uliginosum		15		FAC	FACU Species 12 x 4 = 48
4.	Vaccinium vitis-idaea		10		FAC	UPL Species 0 x 5 = 0
5.	Alnus viridis ssp. crispa		5		FAC	Column Totals: <u>122</u> (A) <u>358</u> (B)
6.	Empetrum nigrum		5		FAC	Prevalence Index = B/A =
7.	Spiraea stevenii		1		FACU	
8.						Hydrophytic Vegetation Indicators:
						✓ Dominance Test is > 50%
10.						✓ Prevalence Index is ≤3.0
Her	b Stratum	Total Cover 50% of Total Cover:		6 of Total Cover	:19.2	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Calamagrostis canadensis		10	✓	FAC	Problematic Hydrophytic Vegetation (Explain)
2.	Cornus suecica		5	✓	FAC	¹ Indicators of hydric soil and wetland hydrology must
3.			0			be present, unless disturbed or problematic.
4.						Plot size (radius, or length x width)
			_			% Cover of Wetland Bryophytes
						(Where applicable)
						% Bare Ground
8.						Total Cover of Bryophytes
			- 0			
9.			U			Hydrophytic
9.			- 1-			
9.		Total Cover 50% of Total Cover:	-	of Total Cover:	3	Vegetation Present? Yes No No

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SOIL Sampling Point: SW15_T316_02

(inches)	Color (m	oist)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-2			100	•					Fibric Organics	
2-7	7.5YR	3/2	90	7.5YR	3/1	10		М	Loamy Sand	
7-10	5YR	3/3	100						Sand	
10-12	10YR	2/1	100						Sandy Loam	angular small cobbles
	10110									ungular small cobbles
									-	_
										_
										_
Type: C=Conce	entration. D	=Depletior	ı. RM=Reduc	ed Matrix	² Location	: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
lydric Soil Indi	icators:			Indicat	ors for Pro	blematic	Hydric So	oils: ³		
Histosol or Hi	istel (A1)				ka Color Ch				Alaska Gleyed Without I	Hue 5Y or Redder
Histic Epiped	on (A2)				ka Alpine sv				Underlying Layer	
Hydrogen Su	. ,			Alasl	ka Redox W	ith 2.5Y H	ue		Other (Explain in Rema	rks)
∐ Thick Dark Sւ	`	2)		3 One ir	ndicator of	hvdrophytic	c vegetatio	n. one prin	nary indicator of wetland	hydrology.
☐ Alaska Gleyed				and an	appropriate	e landscape	e position n	nust be pre	esent	nyarology,
☐ Alaska Redox	` '	F \		4 Give o	letails of co	lor change	in Remark	S		
☐ Alaska Gleyed	a Pores (A)	5)								
estrictive Layer ((if present)									
Type:									Hydric Soil Presen	t? Yes O No 💿
* *	·)·									
Depth (inches										
7.7										
Depth (inches	cators									
Depth (inches emarks: o hydric soil indic	cators	ators:							_Secondary Inc	licators (two or more are required)
Depth (inches emarks: b hydric soil indic	cators Y logy Indic		(t)							licators (two or more are required) nined Leaves (B9)
Depth (inches) emarks: b hydric soil indic	Y logy Indicates (any one		.t)		undation Vi	sible on Ae	rial Imager	ry (B7)	Water Sta	nined Leaves (B9) Patterns (B10)
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Depth (inches) emarks: D hydric soil indice YDROLOG /etland Hydrol rimary Indicator Surface Wate High Water	Y Ogy Indicates (any one er (A1) Table (A2) A3)		nt)	☐ Sp ☐ Ma	arsely Vege Irl Deposits	etated Cond (B15)	cave Surfac		Water Sta Drainage Oxidized Presence	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4)
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