WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Denali Borough	Sa	ampling Date:	06-Aug-13
Applicant/Owner: Alaska Energy Authority			Sampling I	Point: SV	V13_T174_07
Investigator(s): WAD, RWM	Landform (hill	side, terrace, humm	iocks etc.): G	ulch or Gully	
Local relief (concave, convex, none): concave	Slope:	% / _2.9 ° Ele	evation: 102		
Subregion : Interior Alaska Mountains Lat.	63.365905284	8 Long.:	-148.560902118	8 D	atum: NAD83
Soil Map Unit Name:			NWI classifica	ation: PSS1/E	M1E
	ear? Yes ntly disturbed? problematic?	Are "Normal Ci	no, explain in Re rcumstances" pre lain any answers	esent? Yes	● No ○
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point	locations, trans	ects, importar	nt features,	etc.
Hydrophytic Vegetation Present? Yes No	Is	the Sampled A	rea		

Hydric Soil Present? Wetland Hydrology Present?	Yes () Yes ()		Is the Sampled Area within a Wetland?	Yes \odot No \bigcirc	
Remarks: surface water connection alon	g gully to th	ne lake is discontinuo	IS.		

VEGETATION - Use scientific names of plants. List all species in the plot.

			۸hc	olute	Dominant	Indicator	Dominance Test worksheet:
Tre	e Stratum			over	Species?	Status	Number of Dominant Species
1.				0			That are OBL, FACW, or FAC: (A)
2.				0			Total Number of Dominant Species Across All Strata: 4 (B)
3.				0			
4.				0			Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				0			
		Total Cover		0			Prevalence Index worksheet:
San	ling/Shrub Stratum				of Total Cover:	0	Total % Cover of: Multiply by:
Jap	ing/Shiub Stratum		0	2070			OBL Species <u>2</u> x 1 = <u>2</u>
1.	Salix reticulata			35	\checkmark	FAC	FACW Species x 2 =76
2.	Salix pulchra			25	\checkmark	FACW	FAC Species <u>63</u> x 3 = <u>189</u>
3.				0			FACU Species <u>0</u> x 4 = <u>0</u>
4.				0			UPL Species <u>1</u> x 5 = <u>5</u>
5.				0			Column Totals: <u>104</u> (A) <u>272</u> (B)
				0			
				0			Prevalence Index = B/A = 2.615
				0			Hydrophytic Vegetation Indicators:
				0			✓ Dominance Test is > 50%
				0			✓ Prevalence Index is ≤3.0
		Total Cover		60			 Morphological Adaptations¹ (Provide supporting data in
Her	b Stratum	50% of Total Cover:			of Total Cover:	12	Remarks or on a separate sheet)
1.	Rumex arcticus			15	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Arctagrostis latifolia			10		FACW	¹ Indicators of hydric soil and wetland hydrology must
3	Chamaenerion latifolium			5		FAC	be present, unless disturbed or problematic.
4.	Festuca altaica			4		FAC	
5	Caray nadaaarna			3		FAC	Plot size (radius, or length x width) <u>10m</u>
6	Carex membranacea			3		FACW	% Cover of Wetland Bryophytes (Where applicable)
7.	Eriophorum angustifolium			2		OBL	% Bare Ground
8.	Equisetum arvense			1		FAC	Total Cover of Bryophytes 5
9	Antennaria monocephala			1		UPL	
10.				0			Hydrophytic
		Total Cover		44			Hydrophytic Vegetation
			22		of Total Cover:	8.8	Present? Yes • No
Rem	arks:						1

SOIL

Matrix	o document the indicator or co Re	nfirm the absence of inc dox Features	icators)		
Depth Color (moist) %	Color (moist)	% Type ¹	Loc ²	Texture	Remarks
		<u> 70 Type</u>	LUC		
······			·		
· · · · · · · · · · · · · · · · · · ·					
¹ Type: C=Concentration. D=Depletion. RM=	Reduced Matrix ² Location	n: PL=Pore Lining. F	C=Root Char	nnel. M=Matrix	
Hydric Soil Indicators:	Indicators for P	oblematic Hydric	Soils: ³		
Histosol or Histel (A1)	Alaska Color C	hange (TA4)		Alaska Gleyed Without Hu	ue 5Y or Redder
Histic Epipedon (A2)	Alaska Alpine s	swales (TA5)		Underlying Layer	
Hydrogen Sulfide (A4)	Alaska Redox V	With 2.5Y Hue	\checkmark	Other (Explain in Remark	s)
Thick Dark Surface (A12)					
Alaska Gleyed (A13)				ary indicator of wetland h	ydrology,
Alaska Redox (A14)	and an appropria	te landscape positior	must be pre	sent	
	⁴ Give details of c	olor change in Rema	rks		
Alaska Gleyed Pores (A15)		-			
Restrictive Layer (if present):					
Туре:				Hydric Soil Present	? Yes $ullet$ No $igodom$
Depth (inches):				-	
Remarks:					
assume hydric soil due to hydrophytic vegetat	ion and inundation.				
assume nyaric soil due to nyarophytic vegetat	ion and inundation.				
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	ion and inundation.				
HYDROLOGY	ion and inundation.				
HYDROLOGY Wetland Hydrology Indicators:	ion and inundation.				cators (two or more are required)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient)				Water Stain	ned Leaves (B9)
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient) Surface Water (A1)	Inundation V	'isible on Aerial Imaç		─────────────────────────────────────	ned Leaves (B9) atterns (B10)
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