WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling	Date: 10-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T127_02
Investigator(s): SLI, SCB	Landform (hill	side, terrace, hummocks etc.): Knob	
Local relief (concave, convex, none): flat	Slope: 20.0	% / 11.3 ° Elevation: 1220	
Subregion : Southcentral Alaska Lat	62.941891909	Long.: -149.006006241	Datum: WGS84
Soil Map Unit Name:		NWI classification:	Upland
	ear? Yes antly disturbed? y problematic?	 No (If no, explain in Remarks. Are "Normal Circumstances" present? (If needed, explain any answers in Rem 	ÝYes 🔍 No 🔾
SUMMARY OF FINDINGS - Attach site map showing s	ampling point	locations, transects, important feat	ures, etc.
Hydrophytic Vegetation Present? Yes O No 🖲			

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes ⊖ Yes ⊖ Yes ⊖	_	Is the Sampled Area within a Wetland?	Yes 🔿 No 🖲	

Remarks: sdel on crest of small knob. photo time 1245, #s 1533-39, photos 1540-41 of owl mound at crest.

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

		Abso	Absolute Dominan		Indicator	Dominance Test worksheet:			
Tre	e Stratum	% C		Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)			
1.			0						
2.			0			Total Number of Dominant Species Across All Strata: 4 (B)			
3.			0			Percent of dominant Species			
4.			0			That Are OBL, FACW, or FAC: 0.0% (A/B)			
5.			0			Prevalence Index worksheet:			
	Total Cover	: _	0			Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =			
1.	Dryas octopetala		10	\checkmark	UPL	FACW Species 0 x 2 = 0			
2.	Diapensia lapponica		10	\checkmark	UPL	FAC Species <u>7</u> x 3 = <u>21</u>			
3.	Salix rotundifolia		5		FAC	FACU Species <u>1.3</u> x 4 = <u>5.200</u>			
4.	Vaccinium uliginosum		2		FAC	UPL Species x 5 =105.5			
5.	Cassiope tetragona		0.1		FACU	Column Totals: <u>29.4</u> (A) <u>131.7</u> (B)			
6.	Salix arctica		0.1		FACU				
7.			0			Prevalence Index = B/A =4.480			
			0			Hydrophytic Vegetation Indicators:			
			0			Dominance Test is > 50%			
10.			0			Prevalence Index is ≤ 3.0			
	Total Cover	: _2	7.2			Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum 50% of Total Cover: 13.6 20% of Total Cover: 5.44						Remarks or on a separate sheet)			
1.	Oxytropis huddlesonii		1	\checkmark	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Anthoxanthum monticola ssp. alpinum		1		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Campanula lasiocarpa		0.1		UPL	be present, unless disturbed or problematic.			
4.	Anemone narcissiflora		0.1		FACU	Plot size (radius, or length x width) 10m			
5.			0			% Cover of Wetland Bryophytes			
6.			0			(Where applicable)			
7.			0			% Bare Ground			
8.			0			Total Cover of Bryophytes _5			
9.			0						
10.			0			Hydrophytic			
Total Cover: <u>2.2</u> Vegetation						Vegetation			
	50% of Total Cover:	1.1	20%	of Total Cover:	0.44	Present? Yes No 💿			
Rem	Remarks: Abundant lichen including flacuc, thaver, stereocaulon. Trace of unidentified carex								

		the depth no Matrix	eeded to doc	ument the indicator or con Rec	nfirm the ab		ators)				
Depth (inches)	Color (m	oist)	%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
0-4	10YR	2/2	100					Hemic Organics			
4-11	10YR	3/2	20					Loam	80% ang-subang gravels-co	bblec	
		5/2							50 % ang-subang gravels-co	obles	
					-		-				
		,					<u>.</u>				
¹ Type: C=Cor	ncentration. D	=Depletion	. RM=Redu	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators			Indicators for Pr	oblemati	c Hydric Se	oils ³				
_	r Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without H	ue 5V or Pedder		
Histosof of Histosof of	. ,			Alaska Alpine s	• •	,		Underlying Layer			
_	Sulfide (A4)			Alaska Redox V	•	,		Other (Explain in Remark	s)		
	Surface (A12	')									
Alaska Gle	•	-)		³ One indicator of	hydrophy	tic vegetatio	n, one prir	mary indicator of wetland h	ydrology,		
Alaska Rec				and an appropriat	e landsca	pe position i	nust be pr	esent			
	yed Pores (A1	.5)		⁴ Give details of co	olor chang	e in Remark	S				
Restrictive Laye		-									
Type:								Hydric Soil Present	? Yes 🔾 No 🖲)	
Depth (inch	nes).							nyunc son Present			
HYDROLO	GY										
Wetland Hyd	rology Indica	ators:						_Secondary Indi	cators (two or more are re	equired)	
Primary Indica	tors (any one	is sufficien	t)					_	ned Leaves (B9)		
Surface W				Inundation V		-			Patterns (B10)		
	er Table (A2)			Sparsely Veg		ncave Surfa	ce (B8)		hizospheres along Living F	Roots (C3)	
Saturation	. ,			Marl Deposits	. ,	(=.)		Presence of Reduced Iron (C4)			
Water Ma				Hydrogen Su				Salt Deposits (C5)			
	Deposits (B2)			Dry-Season V		. ,		Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
	or Crust (B4)				n in Rema	irks)			juitard (D3)		
								_	graphic Relief (D4)		
	oil Cracks (B6))							Il Test (D5)		
Field Observa	• •	,									
Surface Water		Yes C) No 🖲	Depth (inche	s):						
Water Table P			No 🖲	Depth (inche			Wetla	nd Hydrology Presen	t? Yes 🔿 No 🤄		
Saturation Pre		_	No 🖲	Depth (inche							
(includes capi											
Describe Recon	ded Data (stre	eam gauge,	, monitor w	ell, aerial photos, prev	/Ious inspe	ection) if ava	ailable:				
Remarks:											

no wetland hydrology indicators