WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough Sampling D	Date: 11-Jul-13
Applicant/Owner: Alaska Energy Authority		Sampling Point:	SW13_T126_13
Investigator(s): SLI, SCB	Landform (hill	side, terrace, hummocks etc.): Flat	
Local relief (concave, convex, none): none	Slope: 0.0	% / 0.0 ° Elevation: 780	
Subregion : Southcentral Alaska Lat	t.: 62.886361614	1Long.: _149.388024306	Datum: WGS84
Soil Map Unit Name:		NWI classification: P	EM1F
Are Vegetation , Soil , or Hydrology natural	antly disturbed? ly problematic?	Are "Normal Circumstances" present? (If needed, explain any answers in Rema	,
SUMMARY OF FINDINGS - Attach site map showing s	sampling point	locations, transects, important featu	res, etc.
Hydrophytic Vegetation Present? Yes No	ls	the Sampled Area	

 Hydric Soil Present?
 Yes
 No
 Is the Sampled Area within a Wetland?

 Wetland Hydrology Present?
 Yes
 No
 within a Wetland?

 Remarks:
 characterizing semi-perm flooded wetland
 Ves

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

		Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tre	e Stratum	% Cover	Species?	Status	Number of Dominant Species	
1.		0			That are OBL, FACW, or FAC: <u>2</u> (A)	
2.		0			Total Number of Dominant Species Across All Strata: 2 (B)	
3.		0			Percent of dominant Species	
4.					That Are OBL, FACW, or FAC:100.0% (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 =27.2	
1		0			FACW Species 5 $x 2 = 10$	
2.		0			FAC Species 0 x 3 = 0	
3.					FACU Species 0 x 4 = 0	
4.		0			UPL Species $0 \times 5 = 0$	
5.					Column Totals: 32.2 (A) 37.20 (B)	
					Prevalence Index = B/A = <u>1.155</u>	
					Hydrophytic Vegetation Indicators:	
					✓ Dominance Test is > 50%	
		0			✓ Prevalence Index is \leq 3.0	
	Total Cover: 0 Image: Control of the control of th					
Her	b Stratum 50% of Total Cover:		of Total Cover:	0	Remarks or on a separate sheet)	
1.	Eriophorum angustifolium	15	\checkmark	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)	
2.	Carex magellanica	10	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must	
3.	Trichophorum caespitosum	1		OBL	be present, unless disturbed or problematic.	
4.	Carex rariflora	0.1		OBL	Plot size (radius, or length x width) 10m	
5.	Eriophorum russeolum	5		FACW	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes	
6.	Menyanthes trifoliata	1		OBL	(Where applicable)	
7.	Comarum palustre	0.1		OBL	% Bare Ground80	
8.		0			Total Cover of Bryophytes10	
9.		0				
		0			Hydrophytic	
	Total Cover:	32.2			Vegetation	
	50% of Total Cover: <u>1</u>		of Total Cover:	6.44	Present? Yes \bullet No \bigcirc	
Rem	arks: bare ground including open water					

SOIL

atrix	ument the indicator or con Red	firm the absence of ox Features	indicators)		
+) %	Color (moist)	% Type	$1 \log^2$	Texture	Remarks
<u>-70</u>		<u>-70</u> Type			
				·	
				- <u>.</u>	
				·	
Pepletion. RM=Redu	ced Matrix ² Location	: PL=Pore Lining	g. RC=Root Cha	annel. M=Matrix	
	Indicators for Pro	blematic Hydr	ic Soils: ³		
	🗌 Alaska Color Ch	ange (TA4)		Alaska Gleyed Without H	ue 5Y or Redder
	Alaska Alpine sv	vales (TA5)		Underlying Layer	
			\checkmark	Other (Explain in Remark	s)
					ydrology,
	and an appropriate	e landscape posit	ion must be pr	esent	
	⁴ Give details of co	lor change in Re	marks		
				Hydric Soil Present	? Yes 🖲 No 🔿
phytic vegetation a	nd standing water. pro	bing indicates fro	ozen soils at 16	in.	
Drs:					ators (two or more are required)
ors: sufficient)				Water Stain	ned Leaves (B9)
	_	sible on Aerial In		Water Stain	
	_	sible on Aerial In		Water Stain	ned Leaves (B9)
	Sparsely Vege	tated Concave S (B15)		Water Stain Urainage P Oxidized R Presence o	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)
	Sparsely Vege	tated Concave S (B15)		Water Stain Water Stain Drainage P Oxidized Ri	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)
	Sparsely Vege	tated Concave S (B15)		Water Stair Drainage P Oxidized RI Presence o Salt Depos	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4)
	Sparsely Vege	tated Concave S (B15) fide Odor (C1) /ater Table (C2)		Water Stain Water Stain Drainage P Oxidized R Presence o Salt Depos Stunted or Geomorphi	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2)
	Sparsely Vege Marl Deposits Hydrogen Sul Dry-Season W	tated Concave S (B15) fide Odor (C1) /ater Table (C2)		Water Stair Drainage P Oxidized RI Presence o Salt Depos Stunted or	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2)
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	Sparsely Vege Marl Deposits Hydrogen Sul Dry-Season W	tated Concave S (B15) fide Odor (C1) /ater Table (C2) n in Remarks)		Water Stain Drainage P Oxidized Ri Presence o Salt Depos Stunted or Geomorphi ✓ Shallow Aq Microtopog	ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
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