WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Jun-12								
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12 T33 08								
Investigator(s): SLI, EKJ Landform (hillside, terrace, hummocks etc.): Flat													
Local relief (concave, convex, none): hummocky Slope: % / 1.4 ° Elevation: 697													
	ion : Interior Alaska Mountains	Lat ·	- 62.783546457		Long.: -148.408617409 Datum: NAD83								
-		Lat	02.783340437	1									
	p Unit Name:				NWI classification: PSS1E								
Are V Are V	egetation , Soil , or Hydrology , MARY OF FINDINGS - Attach site map show	significantl naturally p wing sar	ly disturbed? roblematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes No												
	Hydric Soil Present? Yes 🖲 No 🖯)			-								
	Wetland Hydrology Present? Yes No)	WI	thin a W	etland? fes e No e								
Remarks: high areas w shrubby vegetation, organic soils, shallow active layer, and saturation. low-lying areas w shallow water and emergent vegetation.													
		Absolute		•	Dominance Test worksheet:								
Tree	e Stratum	% Cover		Indicator Status	Number of Dominant Species								
1.		0			That are OBL, FACW, or FAC: (A)								
2.					Total Number of Dominant Species Across All Strata: 6 (B)								
3.		0	· _										
4.		0	·		Percent of dominant Species That Are OBL, FACW, or FAC: 83.3% (A/B)								
5.		0											
	Total Cover	0			Prevalence Index worksheet: Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	- 6 of Total Cover:	0									
				-									
	Rhododendron tomentosum	5		FACW									
	Betula nana	7		FAC	FAC Species $29 \times 3 = 87$								
	Vaccinium vitis-idaea	5		FAC	FACU Species 7 $x 4 = 28$ UPL Species 0 $x 5 = 0$								
	Vaccinium uliginosum	7		FAC	UPL Species $0 \times 5 = 0$								
	Picea glauca	7		FACU	Column Totals: <u>56</u> (A) <u>154</u> (B	;)							
	Andromeda polifolia (IAM)		. Ц	OBL	Prevalence Index = B/A = 2.750								
7.		0	. 📙										
8.		0	. 📙		Hydrophytic Vegetation Indicators:								
		0	. Ц		Dominance Test is > 50%								
10.		0	. 🗆		✓ Prevalence Index is ≤3.0								
Herl	Total Cover <u>50% of Total Cover</u>		% of Total Cover	6.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)								
1.	Rubus chamaemorus	7		FACW	Problematic Hydrophytic Vegetation ¹ (Explain)								
2.	Carex bigelowii	10		FAC	¹ Indicators of hydric soil and wetland hydrology must								
3.	Eriophorum russeolum	7		FACW	be present, unless disturbed or problematic.								
4.	-	0			Plot size (radius, or length x width) 10m								
					Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes								
					(Where applicable)								
7.		0			% Bare Ground _3								
					Total Cover of Bryophytes								
		0			Hydrophytic								
	Total Cover:	24			Vegetation								
	50% of Total Cover:	12 20%	6 of Total Cover:	4.8	Present? Yes $ullet$ No $igodoldsymbol{O}$								
Rem	arks: erirus in low-lying areas with 4in standing wate	er.											

Profile Descripti		ne depth nee atrix	ded to docı	document the indicator or confirm the absence of indicators) Redox Features								
Depth (inches)	Color (mois		0/-		wox reall	Type ¹	Loc 2	Texture	Remarks			
0-3		it)	<u> </u>	Color (moist)	-70	Type	LUC	Fibric Organics	None			
3-10			100					Hemic Organics				
10-15	·		100					Sapric Organics				
					_							
								·				
	·		,					·				
17	D [2			C. Deet Che					
- Type: C=Cor	ncentration. D=L	Jepletion. I	<m=redu< td=""><td>ced Matrix ² Location</td><td></td><td>-</td><td></td><td>annel. M=Matrix</td><td></td></m=redu<>	ced Matrix ² Location		-		annel. M=Matrix				
	Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³											
Histosol or Histel (A1)			Alaska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder Underlying Layer					
Histic Epipedon (A2)				Alaska Alpine swales (TA5)			Other (Explain in Remarks)					
	Sulfide (A4) k Surface (A12)				///// 2.31 1	nue			<i></i>			
Alaska Gle	()							mary indicator of wetland h	ydrology,			
Alaska Red				and an appropriat	te landscap	pe position i	must be pre	esent				
	eyed Pores (A15))		⁴ Give details of c	olor chang	je in Remark	s					
Restrictive Laye	er (if present):											
Type: active layer (frozen)							Hydric Soil Present? Yes $ullet$ No $igodot$					
Depth (inches): 15												
Remarks: soil pit characte	erizing shrubby l	nigher area	IS.									
HYDROLO	GY											
	rology Indicat	ors:						Secondary Indi	cators (two or more are required)			
	ators (any one is	sufficient)						Water Stain	ned Leaves (B9)			
Surface W	. ,			Inundation V		5	, , ,		atterns (B10)			
	er Table (A2)			Sparsely Veg	-	ncave Surfa	ce (B8)		nizospheres along Living Roots (C3)			
Saturation				Marl Deposit	. ,			_	f Reduced Iron (C4)			
Water Ma				Hydrogen Su				Salt Depos				
	Deposits (B2)			Dry-Season		• •		_	Stressed Plants (D1) c Position (D2)			
Drift Depo	osits (B3) or Crust (B4)			Other (Expla	in in Rema	irks)		Shallow Aq				
									raphic Relief (D4)			
	oil Cracks (B6)							FAC-neutra				
Field Observa								<u> </u>				
Surface Water		$_{\rm Yes} \odot $	No \bigcirc	Depth (inche	es): 4							
Water Table P	Present?	$_{\rm Yes} \odot $	No \bigcirc	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾			
Saturation Pre (includes capi		Yes 🖲	No \bigcirc	Depth (inche	es):							

Remarks:

low-lying areas with shallow standing water, higher areas with saturation and shallow active layer.

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: