WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	ct/Site: Susitna-Watana Hyd	roelectric Project	Вс	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-12		
Applica	ant/Owner: Alaska Energy A	uthority				Sampling Point: SW12_T53_10		
nvesti	igator(s): CTS, EKJ		L	Landform (hillside, terrace, hummocks etc.): Flat Slope: 0.0 % / _0.0 ° Elevation: 649				
_ocal	relief (concave, convex, none)	flat						
Subre	gion: Southcentral Alaska		Lat.: 6	32.811589908	89	Long.: -149.070169968 Datum: WGS84		
Soil Ma	ap Unit Name:					NWI classification: PEM1E		
Are \		, or Hydrology	significantly naturally pro wing sam	disturbed?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) s, transects, important features, etc.		
Rem	Hydrophytic Vegetation Preset Hydric Soil Present? Wetland Hydrology Present? narks: HgwsIm = wet sedge-w	Yes No Yes No	\supset		the Sam thin a W	pled Area /etland? Yes ● No ○		
/EGI	ETATION - Use scientific	names of plants. L	ist all spec	cies in the		Dominance Test worksheet:		
Tre	ee Stratum_		% Cover	Species?	Status	Number of Dominant Species		
1.			0			That are OBL, FACW, or FAC: 4 (A)		
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: 100.0% (A/B)		
5.		Total Cove	r:			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sap	pling/Shrub Stratum	50% of Total Cover:	0 20% (of Total Cover:	0	OBL Species47.2 x 1 =47.2		
1.	Dasiphora fruticosa		1		FAC	FACW Species 11.2 x 2 = 22.40		
2.			10	✓	FACW	FAC Species x 3 =3		
3.	Andromeda polifolia				FACW	FACU Species0 x 4 =0		
4.	Manager and the second second		0.1		OBL	UPL Species <u>0</u> x 5 = <u>0</u>		
5.						Column Totals:59.4 (A)72.6 (B)		
6.			0					
7.			_			Prevalence Index = B/A = 1.222		
8.			0			Hydrophytic Vegetation Indicators:		
9.			0			✓ Dominance Test is > 50%		
10.			0			Prevalence Index is ≤3.0		
Hei	rb Stratum_	Total Cove 50% of Total Cover:			:2.42	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.			15	V	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
2.				✓	OBL	¹ Indicators of hydric soil and wetland hydrology must		
3.	Carex magellanica				OBL	be present, unless disturbed or problematic.		
4.			-		OBL	Plot size (radius, or length x width)		
5.					FACW	% Cover of Wetland Bryophytes 60		
6.	Viola opinaila		$-\frac{0.1}{0.1}$		OBL FACW	(Where applicable)		
7.					TACVV	% Bare Ground5		
						Total Cover of Bryophytes 60		
8. o								
9.			0			Undenhatie		
9.						Hydrophytic Vegetation		
9.			- <u>0</u> r: <u>47.3</u>	of Total Cover:	9.46	Hydrophytic Vegetation Present? Yes No		

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SOIL Sampling Point: SW12_T53_10 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** Depth <u>Loc</u> 2 (inches) Color (moist) Color (moist) % Type ¹ ¹Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix Indicators for Problematic Hydric Soils:³ **Hydric Soil Indicators:** Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder **Underlying Layer** Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue **✓** Other (Explain in Remarks) Hydrogen Sulfide (A4) Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleyed (A13) and an appropriate landscape position must be present Alaska Redox (A14) ⁴ Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: Assume histic epipedon, water at surface HYDROLOGY

HIDROLOGI								
Wetland Hydrology Indicat	tors:	Secondary Indicators (two or more are required)						
Primary Indicators (any one is	sufficient)	Water Stained Leaves (B9)						
✓ Surface Water (A1)			☐ Inundation Visible on Aerial Imager	ery (B7) Drainage Patterns (B10)				
✓ High Water Table (A2)			Sparsely Vegetated Concave Surface	ace (B8) Oxidized Rhizospheres along Living Roots (C3)				
✓ Saturation (A3)			Marl Deposits (B15)	Presence of Reduced Iron (C4)				
☐ Water Marks (B1)			Hydrogen Sulfide Odor (C1)	Salt Deposits (C5)				
Sediment Deposits (B2)			Dry-Season Water Table (C2)	Stunted or Stressed Plants (D1)				
☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)				Geomorphic Position (D2)				
Algal Mat or Crust (B4)				Shallow Aquitard (D3)				
☐ Iron Deposits (B5)				☐ Microtopographic Relief (D4)				
Surface Soil Cracks (B6)				✓ FAC-neutral Test (D5)				
Field Observations:								
Surface Water Present?	Yes 💿	No O	Depth (inches): 1					
Water Table Present? Yes • No •		Depth (inches):	Wetland Hydrology Present? Yes ● No ○					
Saturation Present? (includes capillary fringe) Yes • No •		Depth (inches):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:								
Damanta								
Remarks:								
semi-floating bog								

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