WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 04-Sep-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T130_05
Investigator(s): JGK		Landform (hil	lside, terrac	e, hummocks etc.): depression
Local relief (concave, convex, none): none				° Elevation: 1080
Subregion : Interior Alaska Mountains	Lat.:	63.04053199		Long.: -148.130715013 Datum: WGS84
Soil Map Unit Name:		00.01000100		NWI classification: PUBH
Are climatic/hydrologic conditions on the site typical for this till Are Vegetation , Soil , or Hydrology , Soil . , or Hydrology , soil . , or Hydrology , soil . , or Hydrology . , Soil . , or Hydrology . , Soil .	significantly naturally pr wing san	y disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes No No		le	the Sam	pled Area
Hydric Soil Present? Yes No C			ithin a W	-
Wetland Hydrology Present? Yes ● No C)	VV	itiiiii a vv	etiana: 100 s no s
Remarks: 2 beaver lodges. DUNN 1462 VEGETATION -Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: (A)
1.				Total Number of Dominant
3.				Species Across All Strata: 0 (B)
				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5.				
Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:		of Total Cover	: 0	
				OBL Species 0 x 1 = 0 FACW Species 0 x 2 = 0
1				FAC Species 0 x3 = 0
				FACU Species 0 x 4 = 0
3. 4.				UPL Species 0 x 5 = 0
5.	0			Column Totals: 0 (A) 0 (B)
6.				
7.	•			Prevalence Index = B/A = 0.000
8.	0			Hydrophytic Vegetation Indicators:
9.	0			☐ Dominance Test is > 50%
10	0			☐ Prevalence Index is ≤3.0
Total Cover: 50% of Total Cover:		% of Total Cove	r: <u>0</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1	0			Problematic Hydrophytic Vegetation ¹ (Explain)
2	0			¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Plot size (radius, or length x width)
5				% Cover of Wetland Bryophytes
6				(Where applicable)
7				% Bare Ground
8.				Total Cover of Bryophytes
9. 10.	0			Undrankstia
Total Cover:	. 0	_		Hydrophytic Vegetation
		of Total Cover	:0	Present? Yes No
Remarks: Unvegetated pond.				
remains. Univergetated pond.				

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SOIL Sampling Point: SW13_T130_05 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: **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 Gleved (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: unvegetated pond, assume hydric soil **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) ✓ Surface Water (A1) Drainage Patterns (B10) ✓ Inundation Visible on Aerial Imagery (B7) High Water Table (A2) Oxidized Rhizospheres along Living Roots (C3) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Presence of Reduced Iron (C4) Marl Deposits (B15) Water Marks (B1) Salt Deposits (C5) ☐ Hydrogen Sulfide Odor (C1) 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: Yes ● No ○ Surface Water Present? Depth (inches): Yes ○ No ● Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches):

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Depth (inches):

Saturation Present?

Remarks: pond.

(includes capillary fringe)

Yes ○ No ●

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