WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:

Susitna-Watana Hydroelectric Project

Borough/City: Denali Borough

Sampling Date: 05-Aug-13

plicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T201_06
estigator(s): SLI, EAC	L	andform (hills	side, terrac	e, hummocks etc.): Channel (active)
cal relief (concave, convex, none): concave		Slope: 0.0	% /0.0	° Elevation: 686
oregion: Interior Alaska Mountains	Lat.: 6	3.363256335		Long.: -148.94477129 Datum: WGS84
Map Unit Name:				NWI classification: R2UBH
climatic/hydrologic conditions on the site typical for this ti	ime of vear?	Yes	No ○	(If no, explain in Remarks.)
	significantly			lormal Circumstances" present? Yes No
re Vegetation 🗹 , Soil 🗹 , or Hydrology 🗌				eded, explain any answers in Remarks.)
MMARY OF FINDINGS - Attach site map sho		pling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		le ·	tha Sam	pled Area
Hydric Soil Present? Yes No C			thin a W	
Wetland Hydrology Present? Yes No		WI	uiiii a vv	etiand? 165 o No o
Remarks: incised r2ubh running through community char (visible), ohv (calcan). sloughed banks below o				
GETATION -Use scientific names of plants. L	ist all spec	cies in the p	olot.	
<u> </u>	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum1.	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC:
				Total Number of Dominant
	_	Ä		Species Across All Strata: 0 (B)
	0			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
5.	0			
Total Cover	:			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20% (of Total Cover:	0	OBL Species 0 x 1 = 0
1	0			FACW Species 0 x 2 = 0
1 2.			-	FAC Species 0 x 3 = 0
		П		FACU Species 0 x 4 = 0
4	•			UPL Species 0 x 5 = 0
5.	•			Column Totals: 0 (A) 0 (B
6.				
7.				Prevalence Index = B/A =
8	0			Hydrophytic Vegetation Indicators:
9	0			☐ Dominance Test is > 50%
0	0			Prevalence Index is ≤3.0
Total Cover Herb Stratum 50% of Total Cover:		of Total Cover:	0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1	0			✓ Problematic Hydrophytic Vegetation ¹ (Explain)
2				¹ Indicators of hydric soil and wetland hydrology must
3	0			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				
	U			Hydrophytic
10Total Cover				Vegetation

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SOIL Sampling Point: SW13_T201_06 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: assume hydric soil due to flowing water and channel morphology **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): 30 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches):

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Depth (inches):

Saturation Present?

Remarks:

(includes capillary fringe)

Yes ○ No ●

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