WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City	: Denali Bo	rough Sampling Date: 08-Aug-13
Applicant/Owner: Alaska Energy Authority	_		Sampling Point: SW13_T146_09
nvestigator(s): SLI, EAC	Landform (h	nillside, terrac	e, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave			° Elevation: 683
	 : 63.3824537	_	Long.: -148.758454323 Datum: WGS84
Soil Map Unit Name:	03.3024337	33	
·	0 Vo	No (No (NWI classification: R2UBH
Are climatic/hydrologic conditions on the site typical for this time of your Are Vegetation \square , Soil \square , or Hydrology \square significa	ear? re intly disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
Are Vegetation ✓ , Soil ✓ , or Hydrology □ naturally	-		eded, explain any answers in Remarks.)
	•	,	
SUMMARY OF FINDINGS - Attach site map showing s	ampling poil	nt locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No ○		a tha Cam	wlad Auso
Hydric Soil Present? Yes ● No ○		s the Sam	-
Wetland Hydrology Present? Yes ● No ○	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	within a W	etiand? Tes © NO ©
Remarks: R2UBH stream, recreational fishermen observed here n point. Cover includes ohv (salix), ucb. point taken on si rinarian willows w nearly continuus cover by overhandii	mall gravel bar no salix 2 sma	where there a	are several small (ca 3ft wide) channels extending into
/EGETATION -Use scientific names of plants. List all s	species in th	e piot.	1
Absolu		t Indicator	Dominance Test worksheet: Number of Dominant Species
Tree Stratum % Cov		Status	That are OBL, FACW, or FAC:0(A)
	0		Total Number of Dominant
	0		Species Across All Strata: (B)
			Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
Total Cover:0			Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover: 0 2	.0% of Total Cov	er:0	OBL Species 0 x 1 = 0
	<u> </u>		FACW Species 0 x 2 = 0
1		-	FAC Species 0 x 3 = 0
3			FACU Species 0 x 4 = 0
4	0		UPL Species 0 x 5 = 0
5.	0		Column Totals: 0 (A) 0 (B)
6.	0		
	0		Prevalence Index = B/A =
8	0		Hydrophytic Vegetation Indicators:
9	<u> </u>		Dominance Test is > 50%
	0		Prevalence Index is ≤3.0
	 20% of Total Cov	ver: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	<u> </u>		Problematic Hydrophytic Vegetation ¹ (Explain)
2			¹ Indicators of hydric soil and wetland hydrology must
3			be present, unless disturbed or problematic.
	<u> </u>		Plot size (radius, or length x width) 10m
0.			% Cover of Wetland Bryophytes
0.			(Where applicable)
7			% Bare Ground
9			Total Cover of Bryophytes
10			Hydrophytic
			Vegetation
50% of Total Cover:02		er: 0	Present? Yes ● No ○
30% of Total Cover			l l

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SOIL Sampling Point: SW13_T146_09 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: active channel, 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): 24 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches):

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(includes capillary fringe)

active channel of creek, 6-36in deep in vicinity of point.

Remarks:

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