## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	prough Sampling Date: 03-Aug-13
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T194_01
nvestigator(s): SLI. EAC	I	Landform (hills	side, terrac	ee, hummocks etc.): Channel (active)
Local relief (concave, convex, none): concave		Slope:		B ° Elevation: 810
Subregion : Interior Alaska Mountains	Lat · 6	63.3562603		Long.: -148.335570335 Datum: NAD83
Soil Map Unit Name: -1		30.0002000		NWI classification: R3UBH
Are climatic/hydrologic conditions on the site typical for this	time of year?	) Yes	O No 💿	
Are Vegetation . , Soil . , or Hydrology .	significantly			Iormal Circumstances" present? Yes  No
Are Vegetation ✓ , Soil ✓ , or Hydrology □	naturally pro			eded, explain any answers in Remarks.)
	owing com	nlina noint	•	
SUMMARY OF FINDINGS - Attach site map sh		ipiirig poirit	locations	s, transects, important leatures, etc.
Hydrophytic Vegetation Present? Yes  No		Is	the Sam	pled Area
Hydric Soil Present? Yes  No	_		thin a W	-
Wetland Hydrology Present? Yes No		ļ.		de at ohw. sand-gravel substrates, cover includes ohv, ucb.
Themans. Characterizing Small 15ubit flowing through curv	ert iii tiaii (it	au: ). 12111 uc	cp, iziii wii	de at onw. Sand-graver substrates, cover includes onv, deb.
/COSTATION				
<b>/EGETATION -</b> Use scientific names of plants.	List all spe	cies in the j	olot.	Dominance Test worksheet:
Tree Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species
1	0		Julus	That are OBL, FACW, or FAC:0(A)
2.	0			Total Number of Dominant Species Across All Strata: 0 (B)
3.				Percent of dominant Species
4.				That Are OBL, FACW, or FAC: 0.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cov	er: <u>0</u>			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species0 x 1 =0
1	0			FACW Species 0 x 2 = 0
2.				FAC Species <u>0</u> x 3 = <u>0</u>
3.	_			FACU Species0 x 4 =0
4	0			UPL Species <u>0</u> x 5 = <u>0</u>
5				Column Totals: 0 (A) 0 (B)
6.				Prevalence Index = B/A =0.000_
7.				
8.				Hydrophytic Vegetation Indicators:  Dominance Test is > 50%
9. 10.				Prevalence Index is ≤3.0
Total Cov				Morphological Adaptations 1 (Provide supporting data in
Herb Stratum 50% of Total Cover:		of Total Cover	0	Remarks or on a separate sheet)
1	0			✓ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	_			be present, unless disturbed or problematic.
4				Plot size (radius, or length x width) 2x10m
5	_			% Cover of Wetland Bryophytes
6	0			(Where applicable)
	•			
7.	0			% Bare Ground
8	0			% Bare Ground  Total Cover of Bryophytes
8 9	0		_	Total Cover of Bryophytes
8	0 0 0			Total Cover of Bryophytes  Hydrophytic
8 9	0 0 0 0	of Total Cover:		Total Cover of Bryophytes

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SOIL Sampling Point: SW13\_T194\_01 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 <sup>1</sup> <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix <sup>2</sup> 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) <sup>3</sup> 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) <sup>4</sup> 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): 12 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

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Remarks: