## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date:19-Aug-15
Applic:	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T316_03
	igator(s): WAD, SCB		Landform (hill	side, terrac	ee, hummocks etc.): Drainage way
Local	relief (concave, convex, none): flat		Slope: 0.0	% / 0.0	
Subred	gion : Cook Inlet Mountains	Lat.:			Long.: Datum: WGS84
		Lut			NWI classification: PEM1E
	ap Unit Name:			<u> </u>	<del></del>
	matic/hydrologic conditions on the site typical for this	•		● No ○	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○
	/egetation ☐ , Soil ☐ , or Hydrology ☐	J	tly disturbed?		ionnal oli cametanoco procont.
Are V	/egetation ☐ , Soil ✔ , or Hydrology ☐	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map sh	owing sar	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   No	0			
	Hydric Soil Present? Yes ● No		Is	the Sam	pled Area
	Wetland Hydrology Present? Yes  No		w	ithin a W	/etland? Yes ● No ○
Rema	, ,		<u> </u>		
Kein	ains.				
/FGI	ETATION -Use scientific names of plants.	Lict all cn	ocios in tho	nlot	
LOI	ETATION - Use scientific flames of plants.	List all sp	ecies iii tiie	ριστ.	
_		Absolute			Dominance Test worksheet:  Number of Dominant Species
1.	ee Stratum	% Cove	r Species?	Status	That are OBL, FACW, or FAC: 4 (A)
					Total Number of Dominant
2.					Species Across All Strata: 4 (B)
3.					Percent of dominant Species
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	Tabel Co.	_ —			Prevalence Index worksheet:
	Total Cov		_	_	Total % Cover of: Multiply by:
Sap	bling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species <u>42</u> x 1 = <u>42</u>
1.	Salix reticulata	5	✓	FAC	FACW Species 45.3 x 2 = 90.6
2.	Salix pulchra		$\checkmark$	FACW	FAC Species 8 x 3 = 24
3.	Dasiphora fruticosa	2		FAC	FACU Species 0 x 4 = 0
4.	Vaccinium uliginosum	1		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Salix myrtillifolia	0.1		FACW	Column Totals: <u>95.3</u> (A) <u>156.6</u> (B)
6.	Andromeda polifolia	0.1		FACW	Prevalence Index = B/A = 1.643
7.		0			1 Tevalence index – D/A –
8.		0			Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.		0			Prevalence Index is ≤3.0
<b>U</b> o.	Total Cov rb Stratum_ 50% of Total Cover:			: 2.64	Morphological Adaptations (P <sup>1</sup> ovide supporting data in Remarks or on a separate sheet)
_	Carex aquatilis	40	✓	OBL	Problematic Hydrophytic Vegetation (Explain)
	Caray sayatilia		. 🗸	FACW	Indicators of hydric soil and wetland hydrology must
	Comarum naluetro			OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3. 4.	Dormania nalvatria			FACW	
					Plot size (radius, or length x width)
					% Cover of Wetland Bryophytes (Where applicable)
- A					% Bare Ground
			·		
7.		0			
7. 8.					Total Cover of Bryophytes
7. 8. 9.					
7. 8. 9.		0			Hydrophytic
7. 8. 9.		0 0 er: 82.1	_	16.42	

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SOIL Sampling Point: SW15\_T316\_03 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:** Alaska Color Change (TA4) Histosol or Histel (A1) ☐ 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: surface water, no pit **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): 2 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): 0 Saturation Present? Yes ○ No ● Depth (inches): 0 (includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

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Remarks: