## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 06-Aug-13					
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T174_06					
	gator(s): WAD, RWM	l	_andform (hill	idform (hillside, terrace, hummocks etc.): Toeslope						
	elief (concave, convex, none): concave		Slope: 3.5 % / 2.0 ° Elevation: 1040							
	jion : Interior Alaska Mountains		33.363766432	Long.: -148.558189631 Datum: WGS84						
_		Lat <u>(</u>	03.303700432	<u>-</u>						
	p Unit Name:		. V	■ N= ○	NWI classification: PSS1B					
Are V Are V	regetation . , Soil . , or Hydrology . r	significantly naturally pro ving sam	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)					
	Hydrophytic Vegetation Present? Yes  No  No		Is	Is the Sampled Area						
	Hydric Soil Present? Yes  No O		within a Wetland? Yes ● No ○							
	Wetland Hydrology Present? Yes   No	)		Within a Wetland:						
VEGE	erks:  ETATION - Use scientific names of plants. Listers	Absolute	Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species					
1.	e Stratum	<b>% Cover</b> 0	Species?	Status	That are OBL, FACW, or FAC: 4 (A)					
2.					Total Number of Dominant					
3.					Species Across All Strata: 4 (B)					
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100,0% (A/B)					
5.		0			P. J.					
	Total Cover:		_		Prevalence Index worksheet:  Total % Cover of: Multiply by:					
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species 0 x1 = 0					
			<b>✓</b>		FACW Species 55 x 2 = 110					
	Salix pulchra		<b>V</b>	FACW	FAC Species 64 x 3 = 192					
	Salix reticulata Salix barclayi	<u>20</u> 5		FAC	FACU Species 0 x 4 = 0					
4.	·			TAC	UPL Species 0 x 5 = 0					
5.										
6.			$\Box$		Column Totals: <u>119</u> (A) <u>302</u> (B)					
7.		0			Prevalence Index = B/A = 2.538					
8.		0			Hydrophytic Vegetation Indicators:					
9.		0			Dominance Test is > 50%					
10.		0			✓ Prevalence Index is ≤3.0					
Total Cover: 75 Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)										
1.	Carex bigelowii	15	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)					
2.	Rumex arcticus	10	<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must					
3.	Petasites frigidus	5		FACW	be present, unless disturbed or problematic.					
4.	Festuca altaica			FAC	Plot size (radius, or length x width) 10m					
5.	Valeriana capitata	2		FAC	Plot size (radius, or length x width) 10m  Cover of Wetland Bryophytes					
6.	Sedum rosea	3		FAC	(Where applicable)					
7.	Polemonium acutiflorum	1		FAC	% Bare Ground					
8.	Poa arctica	1		FAC	Total Cover of Bryophytes5					
	Saxifraga hieraciifolia			FAC						
10.	T-t-I C	0	Ш		Hydrophytic					
	<b>Total Cover:</b> 50% of Total Cover:		of Total Cover:	8.8	Vegetation Present? Yes ● No ○					
Rem	arks:									

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SOIL Sampling Point: SW13 T174 06

JUIL									Samping	Point: 3W13_1174_00		
Profile Descript	ion: (Describe to t		eded to docu	ment the inc				ators)				
Depth (inches)		1atrix		-			x Features		<b>T-</b>			
(inches) 0-3	Color (moi	st)	<u>%</u> _	Color (moist)		<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<b>Texture</b> Fibric Organics	Remarks		
									Hemic Organics			
3-6			100			-						
6-7			100						Sapric Organics			
7-10	10YR	3/2	100						Silt Loam			
10-19	2.5Y	3/2	80	7.5YR	4/6	20	C	PL	Silt Loam	organic staining throughout		
¹Type: C=Cor	ncentration. D=	Depletion.	RM=Reduc	ed Matrix	<sup>2</sup> Location:	PL=Pore	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicat	ors for Pro	blematio	: Hydric So	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alas	ka Color Cha	ange (TA4	<b>4</b>		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	pedon (A2)			Alas	ka Alpine sw	ales (TA5	5)		Underlying Layer			
<b>✓</b> Hydrogen	Sulfide (A4)			<b>✓</b> Alas	ka Redox Wi	ith 2.5Y H	lue	Ш	Other (Explain in Remark	s)		
	k Surface (A12)			3 Ono ii	ndicator of h	v dronh vt	ic vogotatio	n one prim	nary indicator of wetland h	wdralogy		
Alaska Gle					appropriate					iydi ology,		
Alaska Red	. ,			4 Give	details of col	or change	e in Remark	.s				
☐ Alaska Gle	eyed Pores (A15	)				o. a.ay.						
Restrictive Laye	er (if present):											
Type:									Hydric Soil Present	? Yes ● No O		
Depth (inch	nes):											
Remarks:												
HYDROLO												
-	rology Indicat									cators (two or more are required)		
	ntors (any one is	sufficient	)					(07)	Water Stained Leaves (B9)  ✓ Drainage Petterns (B10)			
	☐ Surface Water (A1) ☐ Inundation Visible on Aerial Imagery (F							· ·				
	<ul> <li>✓ High Water Table (A2)</li> <li>✓ Sparsely Vegetated Concave Surface (E</li> <li>✓ Saturation (A3)</li> <li>✓ Marl Deposits (B15)</li> </ul>						æ (B8)	Presence of Reduced Iron (C4)				
Water Marks (B1)				Hydrogen Sulfide Odor (C1)					Salt Deposits (C5)			
Sediment Deposits (B2)				Dry-Season Water Table (C2)					Stunted or Stressed Plants (D1)			
	Drift Deposits (B3)  Other (Explain in Remarks)							Geomorphic Position (D2)				
	or Crust (B4)				- (     -		-,			quitard (D3)		
☐ Iron Deposits (B5)								✓ Microtopographic Relief (D4)				
Surface S	oil Cracks (B6)								<b>✓</b> FAC-neutra	al Test (D5)		
Field Observa	ations:											
Surface Water	r Present?	Yes 🕑	No O	De	epth (inches	): 1						
Water Table F	Present?	Yes 💿	No $\bigcirc$	De	epth (inches	): 15		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾		
Saturation Pre		Yes 💿	No O	De	epth (inches	)· 3						
(includes capi					• ` `	,						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Damada												
Remarks:												

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