## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 31-Jul-13
Applica	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T205_10
	gator(s): SLI, EAC		Landform (hill	side, terrac	ce, hummocks etc.): Valley bottom
	relief (concave, convex, none): flat				O ° Elevation: 724
	gion : Interior Alaska Mountains	l at ·	63.368480206		Long.: -148.780872822 Datum: WGS84
	ap Unit Name:	Lat	03.300400200	,	NWI classification: PSS1B
	·		0 Vaa	No ○	<del></del>
Are \		significantly	y disturbed? oblematic?	Are "N (If nee	(If no, explain in Remarks.)  Normal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)  s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes   No C	)			
	Hydric Soil Present? Yes ● No C	)			ipled Area
	Wetland Hydrology Present? Yes ● No □	)	wi	thin a W	/etland? Yes ● No ○
Por	narks: area previously burned - burn poles,				
	ETATION -Use scientific names of plants. Li	Absolute	Dominant	Indicator	Dominance Test worksheet:  Number of Dominant Species
<u>Tre</u>	e Stratum	% Cover	Species?	Status	That are OBL, FACW, or FAC:4 (A)
					Total Number of Dominant
2. 3.					Species Across All Strata: 4 (B)
4.					Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
5.			П		
	Total Cover				Prevalence Index worksheet:  Total % Cover of: Multiply by:
Sar	oling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0	001.0
			_		
1.	Vaccinium uliginosum			FAC	
2.	Vaccinium vitis-idaea			FAC	FAC Species <u>49.1</u> x 3 = <u>147.3</u> FACU Species 5 x 4 = <u>20</u>
3. 4.	Salix reticulata  Ledum decumbens	- 3 10	<u> </u>	FAC FACW	UPL Species 0 x 5 = 0
5.	Francisco nicercon	10	<b>V</b>	FAC	
6.	Dioce alouse	5	Ä	FACU	Column Totals: <u>64.2</u> (A) <u>187.5</u> (B)
7.	Betula nana	5	Ī	FAC	Prevalence Index = B/A = 2.921
	Arctostaphylos rubra	2		FAC	Hydrophytic Vegetation Indicators:
9.					Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
Hei	Total Cover: 50% of Total Cover:		6 of Total Cover	: 11.4	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.	Carex bigelowii	7	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	Rubus chamaemorus			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Festuca altaica	0.1		FAC	be present, unless disturbed or problematic.
4.					Plot size (radius, or length x width)
					% Cover of Wetland Bryophytes
					(Where applicable)
					% Bare Ground5
					Total Cover of Bryophytes60
10.	Total Cover	0			Hydrophytic
	Total Covers		of Total Cover	1.44	Vegetation Present? Yes ● No ○
	50% of Total Cover:	76 711%			

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SOIL Sampling Point: SW13\_T205\_10

(inches)	Color (m	oist)	%	Color (moist)	%	Type 1 L	<u>oc</u> 2	Texture	Remarks
0-4	5YR	3/2	100				F	Fibric Organics	
4-10	5YR	2.5/1	100				-	Hemic Organics	At 8 in. gravels and cobbles 60%
10-12	7.5YR	3/2	100					Sandy Loam	-
								<u> </u>	
									-
	-								-
Type: C=Cor	ncentration. D	=Depletior		d Matrix <sup>2</sup> Locatio		_		nel. M=Matrix	
ydric Soil I	ndicators:			Indicators for P	4	Hydric Soils:			
Histosol o	r Histel (A1)			Alaska Color C				Alaska Gleyed Without H	lue 5Y or Redder
Histic Epip	pedon (A2)			Alaska Alpine				Jnderlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox	With 2.5Y Hue	е	∐ C	Other (Explain in Remarl	ks)
_	k Surface (A1	2)		3 One indicator of	f hydronhytic	vegetation of	na nrimar	ry indicator of wetland h	avdrology
∐ Alaska Gle				and an appropria	ite landscape	position must	be prese	ent	ryurology,
☐ Alaska Red ☐	` ,			4 Give details of o	olor change i	n Remarks			
」 Alaska Gle	eyed Pores (A	15)			color change ii	Tr Remarks			
strictive Laye	er (if present)	:							
Type: activ	ve layer						H	Hydric Soil Present	:? Yes 💿 No 🔾
	nas). 26							•	
	nes): 26							<u> </u>	
Depth (incr	nes): 26								
emarks:	,								
emarks:	,	ators:							icators (two or more are required
emarks:  YDROLO  Tetland Hyd	GY		ıt)					Secondary Indi	icators (two or more are required ined Leaves (B9)
YDROLO YEtland Hyd rimary Indica Surface W	GY rology Indic stors (any one Vater (A1)		ıt)	Inundation \	/isible on Aeri	ial Imagery (B	57)	Secondary Indi  Secondary Indi  Data Drainage R	ined Leaves (B9) Patterns (B10)
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YDROLO etland Hyd rimary Indica Surface W High Wate Saturation	rology Indicators (any one Vater (A1) er Table (A2)		ıt)	Sparsely Veg Marl Deposit	getated Conca ts (B15)	ave Surface (B		Secondary Indi Water Stai Drainage F Oxidized R	ined Leaves (B9) Patterns (B10) khizospheres along Living Roots ( of Reduced Iron (C4)
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