## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydro	electric Project	Е	Borough/City:	Denali Bo	orough Sampling Date: 07-Aug-13
Applica	ant/Owner: Alaska Energy Au	thority			-	Sampling Point: SW13_T165_06
	gator(s): CTS, AMD	,		Landform (hill	lside, terrac	e, hummocks etc.): Hillside
	relief (concave, convex, none):	flat		Slope:	% / 4.2	,
	·		L ot :	· —		
	gion : Interior Alaska Mountains	3	Lal	63.389738917	/3	
	ap Unit Name:				<u> </u>	NWI classification: Upland
Are \		, or Hydrology	significantl	y disturbed?		(If no, explain in Remarks.)  Iormal Circumstances" present? Yes ● No ○
Are \	/egetation ☐ , Soil ☐	, or Hydrology $\square$	naturally pi	roblematic?	(If nee	eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Att	tach site map sho	wing san	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Presen	t? Yes • No				
	Hydric Soil Present?	Yes O No		Is	the Sam	pled Area
	Wetland Hydrology Present?	Yes O No		w	ithin a W	etland? Yes ○ No •
Rem		100 0 140 0		<u> </u>		
/EGI	<b>ETATION -</b> Use scientific r	names of plants. L	ist all spe	ecies in the		Dominance Test worksheet:
Tre	e Stratum		% Cover		Status	Number of Dominant Species
1.	Picea glauca		5	<b>✓</b>	FACU	That are OBL, FACW, or FAC:5(A)
2.			0			Total Number of Dominant Species Across All Strata: 6 (B)
3.						Percent of dominant Species
4.			0			That Are OBL, FACW, or FAC: 83.3% (A/B)
5.			0			Prevalence Index worksheet:
		Total Cover	r: <u>5</u>			Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum	50% of Total Cover:	2.5 20%	of Total Cover	: <u> </u>	OBL Species 0 x 1 = 0
1.	Betula nana		45	<b>✓</b>	FAC	FACW Species 51 x 2 = 102
2.	Vaccinium uliginosum		35	<b>✓</b>	FAC	FAC Species 140 x 3 = 420
3.	Rhododendron tomentosum		25	<b>~</b>	FACW	FACU Species 9 x 4 = 36
4.	Salix glauca		20		FAC	UPL Species 0.1 x 5 = 0.500
5.	Empetrum nigrum		20		FAC	Column Totals: 200.1 (A) 558.5 (B)
6.	Salix pulchra		15		FACW	
7.	Vaccinium vitis-idaea		5		FAC	Prevalence Index = B/A = 2.791
8.	Salix richardsonii		2		FACW	Hydrophytic Vegetation Indicators:
9.	Picea glauca		2		FACU	✓ Dominance Test is > 50%
10.			0			✓ Prevalence Index is ≤3.0
Hei	b Stratum	<b>Total Cover</b> 50% of Total Cover:		% of Total Cove	r: 33.8	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 (Explain)
2.	Petasites frigidus			<b>~</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Bistorta plumosa				FACU	be present, unless disturbed or problematic.
4.	Pedicularis labradorica		1		FACW	Plot size (radius, or length x width)
5.					UPL	% Cover of Wetland Bryophytes
			_			(Where applicable)
						% Bare Ground
						Total Cover of Bryophytes
			0			
10.						Hydrophytic
		Total Cover				Vegetation Present? Yes  No
	1	50% of Total Cover:	13 05 20%	of Total Cover	5.22	Present? Yes   No

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SOIL Sampling Point: SW13\_T165\_06

Depth (inches)  0-2  2-7  7-20  5Y  Type: C=Concentration  Hydric Soil Indicators  Histosol or Histel (AI  Histic Epipedon (A2)  Hydrogen Sulfide (AI  Thick Dark Surface (AI  Alaska Gleyed (A13)  Alaska Gleyed Pores  Restrictive Layer (if preservice)  Type: Depth (inches):  Remarks: Type: Depth (inches): Type: Dept	) ) ) (A15)	100 100 100	Indicators for P  Alaska Color C  Alaska Alpine  Alaska Redox	on: PL=Pore Lir Problematic Hy Change (TA4) swales (TA5) With 2.5Y Hue of hydrophytic ve ate landscape po	regetation, one osition must be	Hemic Organics Fibric Organics Sandy Clay Loam  Channel. M=Matrix  Alaska Gleyed V Underlying Laye Other (Explain  primary indicator of	wery gravelly with dense glacial  Without Hue 5Y or Redder er in Remarks)  wetland hydrology,	till
2-7 7-20 5Y  1 Type: C=Concentration  Hydric Soil Indicators  Histosol or Histel (A1  Histic Epipedon (A2)  Hydrogen Sulfide (A1  Alaska Gleyed (A13)  Alaska Redox (A14)  Alaska Gleyed Pores  Restrictive Layer (if preservity pre: Depth (inches):  Remarks: Type: Depth (inches): Type: Depth (inches): Type: Depth (inches): Type: Type: Depth (inches): Type: Ty	D=Depletion ) ) (A12)	100 100	Indicators for P  Alaska Color C  Alaska Alpine  Alaska Redox  One indicator of and an appropria	Croblematic Hy  A Change (TA4)  swales (TA5)  With 2.5Y Hue of hydrophytic ve ate landscape po	regetation, one osition must be	Fibric Organics  Sandy Clay Loam  Channel. M=Matrix  Alaska Gleyed Vunderlying Layu Underlying Layu Other (Explain primary indicator of e present	Without Hue 5Y or Redder er in Remarks)	till
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Restrictive Layer (if preser Type: Depth (inches): Remarks: O hydric soil indicators  IYDROLOGY  Wetland Hydrology In Primary Indicators (any of Surface Water (A1) High Water Table (A) Saturation (A3)			4 Give details of o	color change in	Remarks	Hydric Soil I	Present? Yes No •	
Type: Depth (inches): emarks: o hydric soil indicators  YDROLOGY Vetland Hydrology In Primary Indicators (any of the source of t	nt):					Hydric Soil I	Present? Yes O No •	
Depth (inches): emarks: o hydric soil indicators  YDROLOGY Vetland Hydrology In Primary Indicators (any of the source) Surface Water (A1) High Water Table (A) Saturation (A3)						Hydric Soil I	Present? Yes No •	
YDROLOGY Vetland Hydrology In  Primary Indicators (any of Surface Water (A1)  High Water Table (A)  Saturation (A3)								
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Primary Indicators (any of Surface Water (A1) High Water Table (A								
Surface Water (A1) High Water Table (A Saturation (A3)		n+\					ndary Indicators (two or more are req Vater Stained Leaves (B9)	ıired)
High Water Table (A	ile is sufficien	it)	Inundation !	Visible on Aerial	l Imagony (P7)		Orainage Patterns (B10)	
Saturation (A3)	2)			getated Concave	. , , ,		Oxidized Rhizospheres along Living Ro	ots (C3)
` '	-/		Marl Deposi	-	e Surface (Bo)		Presence of Reduced Iron (C4)	765 (CO)
				ulfide Odor (C1)	)		Salt Deposits (C5)	
Sediment Deposits (	32)			Water Table (C	-		Stunted or Stressed Plants (D1)	
Drift Deposits (B3)				ain in Remarks)			Geomorphic Position (D2)	
Algal Mat or Crust (	4)			,			Shallow Aquitard (D3)	
☐ Iron Deposits (B5)						N	licrotopographic Relief (D4)	
Surface Soil Cracks	36)					<b>✓</b> F	AC-neutral Test (D5)	
ield Observations:								
Surface Water Present?		⊃ <sub>No</sub> ⊙	Depth (inch	nes):				
Water Table Present?	Yes	⊃ No ⊙	Depth (inch	nes): 0	We	tland Hydrology	Present? Yes O No 💿	
Saturation Present? (includes capillary fringe	Yes	○ No ●	Depth (inch	nes):				
escribe Recorded Data (		e, monitor well,	, aerial photos, pre	evious inspection	n) if available:			
lemarks:								
nly one secondary hydro								

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