WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Denali Bo	orough Sampling Date: 03-Aug-13						
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T159_01						
	gator(s): CTS, AMD	ee, hummocks etc.): Hillside									
	elief (concave, convex, none): flat		Slope: 6.0		4 ° Elevation: 729						
-	ion : Interior Alaska Mountains	Lat (63.374643564								
	p Unit Name:			<u> </u>	NWI classification: PSS1B						
Are V Are V	egetation , Soil , or Hydrology r	ignificantly naturally pro ving sam	disturbed?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.						
Hydrophytic Vegetation Present? Yes No State Sampled Area											
	Hydric Soil Present? Yes ● No ○		within a Wetland? Yes No								
	Wetland Hydrology Present? Yes ● No ○		WI	WILLIIII a VVGLIATIU!							
	arks: TATION -Use scientific names of plants. Lis	st all spe	cies in the	plot.	Dominance Test worksheet:						
Tro	2 Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species						
1.	e Stratum	0		Status	That are OBL, FACW, or FAC:6(A)						
2.		0			Total Number of Dominant						
3.		0			Species Across All Strata: 7 (B)						
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)						
5.		0									
	Total Cover:		_		Prevalence Index worksheet: Total % Cover of: Multiply by:						
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	001.0						
-					OBL Species 0 x1 = 0 FACW Species 54 x2 = 108						
1.	Betula nana	35	✓	FAC	FAC Species 101 x 3 = 303						
2. 3.	Empetrum nigrum	30	▼	FACW	FACU Species 8 x 4 = 32						
	Ledum decumbens Salix pulchra	<u>25</u> 20		FACW	UPL Species $0 \times 5 = 0$						
5.	Coliv alougo	15		FAC							
6.	Vaccinium uliainacum	10		FAC	Column Totals: <u>163</u> (A) <u>443</u> (B)						
7.	Vaccinium vitis-idaea	4		FAC	Prevalence Index = B/A = 2.718						
	Picea glauca	4		FACU	Hydrophytic Vegetation Indicators:						
	Salix reticulata	1		FAC	Dominance Test is > 50%						
	Arctostaphylos rubra	1		FAC	✓ Prevalence Index is ≤3.0						
	Total Cover: 50% of Total Cover:		of Total Cover	: 29	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)						
1.	Caray at daga	 5	✓	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)						
2.	Carex stylosa Carex bigelowii		~	FAC	Indicators of hydric soil and wetland hydrology must						
3.	Bistorta plumosa		<u></u>	FACU	be present, unless disturbed or problematic.						
4.	Petasites frigidus	4	✓	FACW	District Code on the State Code						
5.	Tephroseris atropurpurea	0.4		FAC	Plot size (radius, or length x width)						
6.	Eriophorum vaginatum	0.1		FACW	% Cover of Wetland Bryophytes (Where applicable)						
7.		0			% Bare Ground _5						
					Total Cover of Bryophytes55						
		0			Hydrophytic						
	Total Cover:		-47-4 10		Vegetation Present? Ves No						
	50% of Total Cover:	9.1 20%	ot Total Cover:	3.64	LIESCHE IES O MO O						
8. 9. 10.	Total Cover:	0 0 0 18.2	of Total Cover:	3.64	Total Cover of Bryophytes55						

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SOIL Sampling Point: SW13_T159_01

Profile Descripti	cion: (Describe to the	he depth ne 1atrix	eded to docur	nent the inc		nfirm the abs		ators)				
(inches)	Color (moi	st)	%	Color (m	noist)	%	Type ¹	Loc ²	Texture	Remarks		
0-4			100			_			Hemic Organics			
4-8			100						Fibric Organics			
8-16		4/1	80	10YR	5/4	20		PL	Clay Loam			
 -												
	ncentration. D=	Depletion.	RM=Reduc				_		nnel. M=Matrix			
Hydric Soil I							c Hydric So		1 <u>-</u>			
	r Histel (A1)				ka Color Ch			✓	Alaska Gleyed Without Hu Underlying Layer	ue 5Y or Redder		
✓ Histic Epip				☐ Alaska Alpine swales (TA5) ☐ Alaska Redox With 2.5Y Hue					Other (Explain in Remark	c)		
_ ′ ′	Sulfide (A4)			L ⊢ Ala∋i	Ka Keuox vv	/NH Z.SEE	lue		Other (Explain res	3)		
_	k Surface (A12) eyed (A13)								nary indicator of wetland h	ydrology,		
_				and an	appropriate	e landscap	e position r	nust be pre	esent			
	✓ Alaska Redox (A14) Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks											
Restrictive Laye	,	_							Undein Chil Bunganti	? Yes ● No ○		
Depth (inch	/ loam, active la hes): 8, 16	yer							Hydric Soil Present	? Yes ♥ NO ∪		
HYDROLO												
	rology Indicat		_	_	_	_	_	_		cators (two or more are required)		
	ators (any one is	sufficient)						Water Stained Leaves (B9)			
Surface Water (A1)					Inundation Visible on Aerial Imagery (B7)				☐ Drainage Patterns (B10)			
	er Table (A2)			Sparsely Vegetated Concave Surface (B8)				ce (B8)		hizospheres along Living Roots (C3)		
Saturation Water Ma	. ,			Marl Deposits (B15)						f Reduced Iron (C4)		
	The control (B2)			☐ Hydrogen Sulfide Odor (C1)☐ Dry-Season Water Table (C2)					Salt Deposi	Stressed Plants (D1)		
Drift Depo	,			Other (Explain in Remarks)						c Position (D2)		
l —	osits (B3) or Crust (B4)			0.	IIEI (Expiaii	I III Kema	(KS)		✓ Shallow Aq	` '		
Iron Depo	• •									raphic Relief (D4)		
	Soil Cracks (B6)								✓ FAC-neutra	, ,		
Field Observa												
Surface Water	r Present?	Yes \bigcirc	No 💿	De	epth (inches	s):						
Water Table F	Present?	Yes O	No 💿	D€	epth (inches	s):		Wetlar	nd Hydrology Presen	t? Yes • No O		
Saturation Pre		Yes •	No O		epth (inches	•			•			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												

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