WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Jul-13								
Applica	int/Owner: Alaska Energy Authority	Sampling Point: SW13_T111_04											
Investigator(s): JER Landform (hillside, terrace, hummocks etc.): Hillside													
-	elief (concave, convex, none): concave		Slope:	% / 2.8	-								
	ion : Interior Alaska Mountains	l at	· : 62.77002549		Long.: -148.14399147 Datum: NAD83								
_			02.77002549	22									
	Soil Map Unit Name: NWI classification: Upland Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)												
		_	ear? Yes intly disturbed?		(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○								
		¬ •	•		p								
Ale v	egetation 🔲 , Soil 📙 , or Hydrology L	⊐ naturan	y problematic?	(it nee	eded, explain any answers in Remarks.)								
SUMN	MARY OF FINDINGS - Attach site map s	showing s	ampling poin	t locations	s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes N	0 0	_										
	Hydric Soil Present? Yes ○ N	o		the Sam	-								
		o	W	ithin a W	/etland? Yes ∪ No ♥								
	arks: multiple caribou trails												
VEGE	TATION - Use scientific names of plant	s. List all s	species in the	plot.	_								
		Absolu			Dominance Test worksheet:								
Tree	e Stratum_	% Cov		Status	Number of Dominant Species								
1.			0		That are OBL, FACW, or FAC: 6 (A)								
2.			0		Total Number of Dominant Species Across All Strata: 8 (B)								
3.			0		Percent of dominant Species								
4.			0		That Are OBL, FACW, or FAC: 75.0% (A/B)								
5.			o		Prevalence Index worksheet:								
	Total Co		_		Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	02	0% of Total Cove	r: <u>0</u>	OBL Species <u>8</u> x 1 = <u>8</u>								
1.	Betula nana		5	FAC	FACW Species <u>6</u> x 2 = <u>12</u>								
2.	Empetrum nigrum		3 0	FAC	FAC Species <u>73.1</u> x 3 = <u>219.3</u>								
3.	Andromeda polifolia (IAM)		8	OBL	FACU Species 9 x 4 = 36								
4.	Vaccinium vitis-idaea		5	FAC	UPL Species <u>0</u> x 5 = <u>0</u>								
5.	Vaccinium uliginosum		20	FAC	Column Totals: <u>96.1</u> (A) <u>275.3</u> (B)								
6.	Loiseleuria procumbens		3	FACU	Prevalence Index = B/A =2.865_								
7.	Salix rotundifolia		2	FAC									
8.	Rhododendron tomentosum		<u>1</u>	FACW	Hydrophytic Vegetation Indicators:								
9.	Salix fuscescens		2 🗆	FACW	✓ Dominance Test is > 50%								
10.	Cassiope tetragona		<u>1</u>	FACU	✓ Prevalence Index is ≤3.0								
Her	Total Co b Stratum 50% of Total Cover:		<u>/</u> 20% of Total Cove	er: 15.4	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)								
1.	Pedicularis capitata		1	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)								
2.	Festuca altaica		5	FAC	¹ Indicators of hydric soil and wetland hydrology must								
3.	Gentiana glauca		<u> </u>	FAC	be present, unless disturbed or problematic.								
4.	Dodecatheon frigidum		~	FACW									
5.	Artemisia norvegica		2	FACU	Plot size (radius, or length x width) 10m								
6.	Anthoxanthum monticola ssp. alpinum		2	UPL	% Cover of Wetland Bryophytes (Where applicable)								
7.	Bistorta vivipara	0	.1	FAC	% Bare Ground 2								
8.	Carex bigelowii		<u> </u>	FAC	Total Cover of Bryophytes 25								
9.	Carex podocarpa		2 🗸	FAC									
10.	Tofieldia pusilla		2	FAC	Hydrophytic								
	Total Co				Vegetation Procent? Ves No No No No No No No N								
	50% of Total Cover:	9.55 2	10% of Total Cove	r: <u>3.82</u>	rresent? res 🙂 NO 🔾								
Rem		9.55 2	0% of Total Cover		Present? Yes No								

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SOIL Sampling Point: SW13_T111_04

Profile Descripti		the depth n	eeded to docu	ment the indicator or co	nfirm the ab		cators)				
Depth (inches)					%	Type ¹	Loc ²		Remarks		
0-1	Color (mo	oist)	<u>%</u> _	Color (moist)		Туре	LOC	Fibric Organics	Remarks		
	7. FVD	2.5/2						Silt Loam			
1-3	7.5YR	2.5/2	100					-	high organic content		
3-9	7.5YR	2.5/2	100					Sandy Loam	gravel		
9-18	2.5Y	4/3	100					Fine Sand	w gravel		
-					-		-	-			
Type: C=Concentration. D=Depletion. RM=Reduced Matrix Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³				
Histosol or	Histel (A1)			Alaska Color Cl	nange (TA	4 1)		Alaska Gleyed Without H	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y I	lue		Other (Explain in Remark	rs)		
☐ Thick Dark	Surface (A12))		2							
Alaska Gle	yed (A13)			One indicator of and an appropriat	hydrophyl e landscar	ic vegetation in	on, one prin must be pre	mary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					•	•				
	yed Pores (A1	-		⁴ Give details of co	olor chang	e in Remark	(S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
HYDROLO											
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one i	is sufficien	t)					ned Leaves (B9)			
Surface Water (A1)			Inundation V	isible on A	erial Image	ry (B7)	Drainage Patterns (B10)				
High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)			
Saturation (A3)			Marl Deposits (B15)					f Reduced Iron (C4)			
Water Marks (B1)				☐ Hydrogen Sulfide Odor (C1)				Salt Depos			
Sediment Deposits (B2)				☐ Dry-Season \					Stressed Plants (D1)		
☐ Drift Depo				U Other (Explai	n in Rema	rks)			ic Position (D2)		
☐ Algai Mat	or Crust (B4)								uitard (D3)		
	oil Cracks (B6)								raphic Relief (D4) Il Test (D5)		
Field Observa								☐ FAC-fieutia	ii Test (D3)		
Surface Water		Yes (No •	Depth (inche	c).						
			No •	, ,	•		14/ atla	u d Hardwala ar Para a a a	t? Yes ○ No ●		
Water Table P		_	_	Depth (inche	s):		wetia	nd Hydrology Presen	t? Yes O No S		
Saturation Present? (includes capillary fringe) Yes No •			Depth (inche	s):							
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
No wetland hyd	drology indicate	ors.									
		- =-									

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