WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ca-Susitna Borough Sampling Date: 08-Jul-13			
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T131_06			
Investi	gator(s): SLI. SCB		Landform (hillside, terrace, hummocks etc.): Terrace					
	elief (concave, convex, none): none		Slope: 17.6 % / 10.0 ° Elevation: 1062					
Subrec	jion : Interior Alaska Mountains	Lat.:	62.97649645	 8	Long.: -148.268949628 Datum: WGS84			
	p Unit Name:		02.07 040040	<u> </u>	NWI classification: Upland			
	natic/hydrologic conditions on the site typical for this ti	mo of voo	r2 Vac	● No ○	(If no, explain in Remarks.)			
		-	ly disturbed?		Iormal Circumstances" present? Yes No			
		-	roblematic?		eded, explain any answers in Remarks.)			
		• •						
SUMI	MARY OF FINDINGS - Attach site map show		npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes O No •			41 0	unland Ausa			
	Hydric Soil Present? Yes O No •)		Is the Sampled Area within a Wetland? Yes ○ No ●				
	Wetland Hydrology Present? Yes O No •)	W	within a Wetland? Yes ○ No ●				
Rem	arks: photo time 1300, #s 1453-55. cassiope nivation	hollow						
	prioto dine 1500/ #5 1 155 551 cassiope invador							
VEGE	ETATION -Use scientific names of plants. Li	st all sp	ecies in the	plot.				
		Absolute	Dominant	Indicator	Dominance Test worksheet:			
	e Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1.		0	. 🔲		Total Number of Dominant			
2.		0	. 📙		Species Across All Strata: 4 (B)			
3.		0	. 📙		Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 50.0% (A/B)			
5.		0	. \square		Prevalence Index worksheet:			
	Total Covers				Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species x 1 =			
1.	Cassiope tetragona	_ 25		FACU	FACW Species 0 x 2 = 0			
2.	Spiraea stevenii	2	. 📙	FACU	FAC Species 27.2 x 3 = 81.60			
3.	Empetrum nigrum	25	. 💆	FAC	FACU Species 38 x 4 = 152			
4.	Vaccinium vitis-idaea	0.1	. 📙	FAC	UPL Species <u>0</u> x 5 = <u>0</u>			
5.	Vaccinium uliginosum	0.1		FAC	Column Totals: <u>65.2</u> (A) <u>233.6</u> (B)			
6.	Betula nana	1	. 📙	FAC	Prevalence Index = B/A = 3.583_			
	Salix arctica Salix rotundifolia	0.1		FACU FAC	II. dan abadia Vanatakian Tudia tama			
8. 9.	Loiseleuria procumbens	10	. 📙	FACU	Hydrophytic Vegetation Indicators: Dominance Test is > 50%			
10.	Loisciculia procumberis	0		1700	Prevalence Index is ≤ 3.0			
10.	Total Cover				Morphological Adaptations ¹ (Provide supporting data in			
Her	b Stratum 50% of Total Cover:			r: <u>12.68</u>	Remarks or on a separate sheet)			
1.	Festuca altaica	1	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Anemone narcissiflora	-	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.					be present, unless disturbed or problematic.			
			. 🔲		Plot size (radius, or length x width) 10m			
			. 📙		% Cover of Wetland Bryophytes			
					(Where applicable)			
					% Bare Ground			
					Total Cover of Bryophytes			
9.								
		0			Hydrophytic			
	Total Cover: 50% of Total Cover:			: 0.4	Vegetation Present? Yes ○ No ●			

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SOIL Sampling Point: SW13_T131_06

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		the depth nee Matrix	:ded to docur	ment the indicator or cor Rec	nfirm the ab		ators)				
Depth (inches)	Color (moi		%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-1			_					Hemic Organics			
1-5	2.5Y	3/3	100					Sandy Loam			
5-10	2.5Y	4/3	100					Sandy Loam			
10-12	2.5Y	4/3	100					Sandy Loam			
12-18	2.5Y	4/3	100					Sandy Loam	wavy boundary		
¹Type: C=Cor	centration. D=	Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:	_	_	Indicators for Pr	oblemati	c Hydric S	oils:				
Histosol or	Histel (A1)			Alaska Color Ch		-		Alaska Gleyed Without Hu	ue 5Y or Redder		
Histic Epip	edon (A2)			Alaska Alpine s	-	-		Underlying Layer			
	Sulfide (A4)			☐ Alaska Redox V	Nith 2.5Y I	Hue		Other (Explain in Remark	5)		
	Surface (A12)			³ One indicator of	hydrophy	tic vegetatic	n, one prim	nary indicator of wetland h	ydrology,		
Alaska Gle				and an appropriat					,		
	yed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	(S				
Restrictive Laye	er (if present):								<u> </u>		
Type:								Hydric Soil Present?	? Yes ○ No •		
Depth (inch	es):										
Remarks:											
no hydric soil in	dicators										
HYDROLO											
Wetland Hydi Primary Indica									cators (two or more are required)		
		5 Sufficiency		Inundation V	/isible on /	torial Image		Water Stained Leaves (B9) (B7) Drainage Patterns (B10)			
Surface Water (A1) High Water Table (A2)				☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)					hizospheres along Living Roots (C3)		
Saturation				Marl Deposits		icure carra	JC (DC)		f Reduced Iron (C4)		
☐ Water Mai	-			Hydrogen Su	. ,	(C1)		Salt Deposi	its (C5)		
Sediment	Deposits (B2)			Dry-Season V				Stunted or	Stressed Plants (D1)		
Drift Depo	sits (B3)			Other (Explai	in in Rema	arks)		Geomorphi	c Position (D2)		
	or Crust (B4)							Shallow Aq			
Iron Depo									raphic Relief (D4)		
	oil Cracks (B6)							☐ FAC-neutra	l Test (D5)		
Field Observa Surface Water		Voc ()	No ●	Danth (inche	\.						
			No •	Depth (inche	•		14/otlos	Drocon	t? Yes O No 💿		
Water Table P Saturation Pre				Depth (inche	:s):		Wetiai	nd Hydrology Present	t? yes ∨ No ⊕		
(includes capil		Yes ∪	No 💿	Depth (inche	:s):						
Describe Record	ded Data (strea	am gauge,	monitor we	ell, aerial photos, prev	vious inspe	ection) if ava	ailable:				
Damarko											
Remarks: no wetland hyd	rology indicato	ore									
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