WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 10-Jul-13		
Applic	ant/Owner: Alaska Energy Authority		Sampling Point: SW13_T132_02				
nvest	gator(s): WAD, BAB		Landform (hill	side, terrac	e, hummocks etc.): Bench		
Local	elief (concave, convex, none): convex		Slope: 14.0	%/ 8.0	° Elevation: 934		
	ion : Interior Alaska Mountains		62.95568478 ²		Long.: -148.392501354 Datum: WGS84		
		Lat	02.90000470	1	-		
	p Unit Name:			<u> </u>	NWI classification: Upland		
Are \ Are \		significantly	disturbed? oblematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes Ves						
	, , , , , , , , , , , , , , , , , , ,		ls	the Sam	npled Area		
	· · j · · · · · · · · · · · · · · · · · · ·		wi	ithin a W	/etland? Yes 🔾 No 🖲		
	Wetland Hydrology Present? Yes O No O	9					
	arks: convex knob closed betnan. photo num 1261, 1262 nhoto time 1031 TATION - Use scientific names of plants. Li	st all spe	cies in the	plot.			
		•		•	Dominance Test worksheet:		
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	- Stratum	0		Julus	That are OBL, FACW, or FAC: (A)		
2.		0			Total Number of Dominant		
3.		0			Species Across All Strata: <u>8</u> (B)		
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 62.5% (A/B)		
5.		0					
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sau	ling/Shrub Stratum 50% of Total Cover:	0					
		-	of Total Cover:	-	OBL Species $0 \times 1 = 0$		
1.	Betula nana	75		FAC	FACW Species $0 \times 2 = 0$		
2.	Empetrum nigrum	15		FAC	FAC Species <u>128</u> x 3 = <u>384</u> FACU Species 5 x 4 = 20		
3.	Vaccinium uliginosum			FAC			
4.	Ledum groenlandicum			FAC	UPL Species x 5 =		
5.	Cornus suecica			FAC	Column Totals: <u>133</u> (A) <u>404</u> (B)		
6.	Vaccinium vitis-idaea			FAC	Prevalence Index = B/A =3.038_		
7.	Spiraea stevenii	2		FACU			
8.					Hydrophytic Vegetation Indicators:		
		0			Dominance Test is > 50%		
10.					Prevalence Index is ≤ 3.0		
He	Total Cover b Stratum 50% of Total Cover:		of Total Cover	: 24.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Calamagrostis canadensis	5		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
	Carex bigelowii	1		FAC	¹ Indicators of hydric soil and wetland hydrology must		
	Spinulum annotinum			FACU	be present, unless disturbed or problematic.		
4.	Rubus pedatus			FAC	Plot size (radius, or length x width) <u>10m</u>		
5.	Chamerion angustifolium	1		FACU	% Cover of Wetland Bryophytes		
6.	Festuca altaica			FAC	(Where applicable)		
7.	Anemone parviflora	•		FACU	% Bare Ground		
8.					Total Cover of Bryophytes		
9.							
		0			Hydrophytic		
10.							
10.	Total Cover: 50% of Total Cover:		of Total Covor	2.2	Vegetation Present? Yes • No O		

Profile Descripti Depth	-	the depth r Matrix	eeded to docur	nent the indicator or con Rec	nfirm the al		cators)	_				
(inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	 2	Texture	Remarks			
0-3			100					Fibric Organics				
3-4			100					Hemic Organics				
4-5			100					Sapric Organics				
5-6	10YR	5/4	100					Loamy Sand	tephra or e layer			
6-9	2.5YR	2.5/1	100					Sand				
9-15	5YR	3/3	100					Sand				
						u						
¹ Type: C=Cor	ncentration. D=	Depletior	n. RM=Reduce	ed Matrix ² Location	n: PL=Po	re Lining. R	C=Root Cha	nnel. M=Matrix				
Hydric Soil I	ndicators			Indicators for Pr	oblemati	ic Hydric S	oils ³					
	Histel (A1)			Alaska Color Ch		4		Alaska Gleyed Without Hue 5Y or Redder				
Histic Epip	. ,			Alaska Alpine swales (TA5)				Underlying Layer				
_	Sulfide (A4)			Alaska Redox V	-	-		Other (Explain in Remarks)				
	Surface (A12))										
Alaska Gle		,						nary indicator of wetland h	ydrology,			
🗌 Alaska Red				and an appropriat	e lanusca	pe position	must be pre	esent				
🗌 Alaska Gle	yed Pores (A1	5)		⁴ Give details of co	olor chang	ge in Remar	ks					
Restrictive Laye	er (if present):											
Type:								Hydric Soil Present	? Yes 🔿 No 🖲			
Depth (incl	nes):							•				
Remarks:												
no hydric soil indicators												
-												
l												
HYDROLO	GY											
Wetland Hyd		tors:						Secondary Indi	cators (two or more are required)			
Primary Indica	tors (any one	is sufficier	it)					Water Stai	ned Leaves (B9)			
Surface Water (A1)				Inundation Visible on Aerial Imagery (B7)				Drainage Patterns (B10) Oxidized Rhizospheres along Living Roots (C3)				
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)								
Saturation	. ,			Marl Deposits	. ,				f Reduced Iron (C4)			
Water Ma				Hydrogen Su				Salt Deposits (C5) Stunted or Stressed Plants (D1)				
	Deposits (B2)			Dry-Season \		. ,						
Drift Depo				Other (Explai	in in Rema	arks)		Geomorphic Position (D2)				
	Algal Mat or Crust (B4) Shallow Aquitard (D3)											
☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6)								Microtopographic Relief (D4)				
Field Observa												
Surface Water		Yes) No 🖲	Depth (inche	c).							
Water Table P							Wetler	Wetland Hydrology Present? Yes \bigcirc No $ullet$				
Saturation Pre				Depth (inche	,		cual	ina riyarology Fiesen				
(includes capi		Yes) No 🖲	Depth (inche	s):							
Describe Recor	ded Data (stre	am gauge	, monitor we	ll, aerial photos, prev	vious insp	ection) if av	ailable:					
		-		·								
Remarks:												
no hydrology indicators observed												