## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13		
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T190_01		
nvesti	gator(s): JGK	side, terrac	e, hummocks etc.): Footslope				
_ocal r	elief (concave, convex, none): hummocky		Slope: 10.0	%/ 5.7	·		
Subrec	ion : Interior Alaska Mountains	Lat ·	62.949343085		Long.: -148.215893149 Datum: WGS84		
-	p Unit Name:		02.343343000				
	• 		• \/	• No ()	NWI classification: Upland		
Are V Are V		significantly naturally pr	v disturbed? oblematic?	Are "N (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 O No 🖲	)					
	Hydric Soil Present? Yes O No 🖲	)	ls	pled Area			
	Wetland Hydrology Present? Yes O No 🖲	)	within a Wetland? Yes $\bigcirc$ No $oldsymbol{igstar}$				
	, ,,						
Rem	arks: DUNN SITE 1507 SOIL 1509						
	GPS 1506						
/EGE	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.		0			That are OBL, FACW, or FAC: <u>2</u> (A)		
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)		
3.		0					
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)		
5.		0					
	Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0			
					$\begin{array}{c c} \text{OBL Species} & \underline{0} & x \ 1 = & \underline{0} \\ \text{FACW Species} & \underline{2.1} & x \ 2 = & \underline{4.2} \end{array}$		
	Dryas octopetala			UPL			
2.	Vaccinium uliginosum			FAC			
3.	Salix reticulata			FAC			
4.	Betula nana	5		FAC	UPL Species $21$ x 5 = $105$		
5.	Dasiphora fruticosa	3		FAC	Column Totals: <u>136.3</u> (A) <u>488</u> (B)		
6.	Arctostaphylos rubra	3		FAC	Prevalence Index = $B/A = 3.580$		
7.	Cassiope tetragona	5		FACU			
8.	Empetrum nigrum			FAC	Hydrophytic Vegetation Indicators:		
	Picea glauca	0.1		FACU	Dominance Test is > 50%		
10.	Ledum decumbens	0.1		FACW	$\square Prevalence Index is \leq 3.0$		
Her	Total Cover: <u>b Stratum</u> 50% of Total Cover:		of Total Cover	: 13.44	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)		
1.	Carex bigelowii	10		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
2.	Carex scirpoidea	35	$\checkmark$	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must		
3.	Saussurea angustifolia	3		FAC	be present, unless disturbed or problematic.		
4.	Bistorta plumosa	3		FACU	Dist size (radius, or length y width)		
5.	Poa glauca	1		UPL	Plot size (radius, or length x width) <u>10m</u>		
6.	Festuca altaica	15	$\checkmark$	FAC	% Cover of Wetland Bryophytes (Where applicable)		
7.	Dodecatheon frigidum	2		FACW	% Bare Ground		
8.	Anthoxanthum monticola ssp. alpinum	0.1		FACU	Total Cover of Bryophytes60		
9.		0					
10.		0			Hydrophytic		
	Total Cover:	69.1			Vegetation Present? Yes No •		
	50% of Total Cover:3				Present? Yes U No 🔍		

	n: (Describe to	the depth ne Matrix	eded to docu	ument the inc		lox Featu		ators)			
Depth - (inches)	Color (moist)		%	Color (n	Color (moist)		Type <sup>1</sup>	_Loc_2	Texture	Remarks	
0-1			100			%			Fibric Organics		
1-3			100						Hemic Organics		
3-12	10R	3/4	90	10YR	3/1	10	·		Gravelly Sand	Some silt with angular cobbles 3 in diameter	
12-16	2.5Y	3/1							Silty Gravel	Large angular cobbles 3-5 in diameter at pii	
·	······································		·				·				
<sup>1</sup> Type: C=Conc	centration. D	=Depletion.	. RM=Redu	ced Matrix	<sup>2</sup> Location	: PL=Por	e Lining. R(	C=Root Cha	annel. M=Matrix		
Hydric Soil Ind	dicators:			Indicat	tors for Pro	oblemati	- Hvdric S	nils: <sup>3</sup>			
Histosol or H							4	Jii3.	] Alaska Gleyed Without H	lue 5V or Redder	
Histosof of P	• •				Alaska Color Change (TA4)				Underlying Layer		
Hydrogen S					ska Redox W	-	-		Other (Explain in Remar	ks)	
	Surface (A12	')									
Alaska Gleye	``								mary indicator of wetland h	ıydrology,	
Alaska Redo				and an	appropriate	: landscap	e position r	must be pre	esent		
	ed Pores (A1	5)		<sup>4</sup> Give o	details of co	lor change	e in Remark	s			
Restrictive Layer	(if present)										
Type:									Hydric Soil Present	:? Yes 🔿 No 🖲	
Depth (inche	es):								-		
Remarks:											
no hydric soil ind	dicators										
HYDROLOG	θY										
Wetland Hydro	ology Indica	ators:			1					icators (two or more are required)	
Primary Indicato		is sufficient	t)							ined Leaves (B9)	
Surface Wa					Inundation Visible on Aerial Imagery (B7)					Patterns (B10)	
High Water	. ,			L Sp	Sparsely Vegetated Concave Surface (B8)					Rhizospheres along Living Roots (C3)	
Saturation (A3)										of Reduced Iron (C4)	
Water Marks (B1) Hydrogen Sulfide Odor (C1)								Salt Depos			
Sediment Deposits (B2)									r Stressed Plants (D1)		
Drift Deposits (B3) Other (Explain in Remarks)										nic Position (D2)	
Algal Mat or Crust (B4)									quitard (D3) graphic Relief (D4)		
	il Cracks (B6)	١								al Test (D5)	
Field Observat								1			
Surface Water F		Yes C	) <sub>No</sub> (•	Df	epth (inches	s):					
Water Table Pre	esent?	Yes $\mathbb C$	) No 🖲	Df	epth (inches	5):		Wetla	nd Hydrology Presen	nt? Yes 🔿 No 🖲	
Saturation Prese (includes capilla		Yes $\bigcirc$	) No 🖲	De	epth (inches						

Remarks:

no wetland hydrology indicators