WETLAND DETERMINATION DATA FORM - Alaska Region

Project	Site: Susitna-Watana Hydroelectric Project	Bo	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 11-Jul-13							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW13_T126_11							
Investigator(s): SLI, SCB Landform (hillside, terrace, hummocks etc.): Hillside												
Local relief (concave, convex, none): none Slope: % / 12.3 ° Elevation: 732												
Subrea	ion : Southcentral Alaska	lat 6	62.885780497	7	Long.: -149.382929609 Datum: NAD83							
-			12.003700437									
	p Unit Name:				NWI classification: Upland							
Are V Are V	egetation, Soil, or Hydrologyr	significantly naturally pro ving sam	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 \bigcirc No $old eta$	nlad Area										
	Hydric Soil Present? Yes 🔿 No 🖲)			npled Area Vetland? Yes \bigcirc No \textcircled{ullet}							
	Wetland Hydrology Present? Yes 🔿 No 🖲	WI	within a Wetland? Yes \cup No $ullet$									
	rks: sparrows chirping, wilson's warbler seen. TATION - Use scientific names of plants. Li	st all sne	cies in the	nlot								
	Use selentine numes of plants. El				Dominance Test worksheet:							
Tree	Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species							
1.		0			That are OBL, FACW, or FAC: (A)							
2.		0			Total Number of Dominant Species Across All Strata: 2 (B)							
3.		0										
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)							
5.		0			· · · · · · · · · · · · · · · · · · ·							
	Total Cover:				Prevalence Index worksheet: Total % Cover of: Multiply by:							
San	ing/Shrub Stratum 50% of Total Cover:		of Total Cover:	0								
-		-										
	Alnus viridis	80		FAC								
2.					FAC Species 80.1 x 3 = 240.3							
3.		0			FACU Species 82.1 x 4 = 328.4							
4.		0			UPL Species x 5 =							
5.		0			Column Totals: <u>162.2</u> (A) <u>568.7</u> (B)							
6.		0			Prevalence Index = B/A =3.506_							
7.												
8.					Hydrophytic Vegetation Indicators:							
		0			Dominance Test is > 50%							
10.		0			Prevalence Index is ≤3.0							
Her	Total Cover:		of Total Cover	: 16	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
1.	Dryopteris expansa	70	\checkmark	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)							
	Streptopus amplexifolius	10		FACU	¹ Indicators of hydric soil and wetland hydrology must							
3.	Gymnocarpium dryopteris	2		FACU	be present, unless disturbed or problematic.							
4.	Trientalis europaea	0.1		FACU	Plot size (radius, or length x width)							
5.	Rubus arcticus	0.1		FAC	% Cover of Wetland Bryophytes							
6.		0			(Where applicable)							
7.		0			% Bare Ground80							
8.					Total Cover of Bryophytes _5							
9.												
10.		0			Hydrophytic							
	Total Cover:				Vegetation Present? Yes O No •							
	50% of Total Cover:	1.1 20%	of Total Cover:	16.44	Present?YesNo							
Rem	arks: ground cover mostly alder leaf litter											

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Depth Matrix Redox Features											
(inches)	Color (moist)		%	Color (n	Color (moist)		Type ¹	Loc 2	Texture	Remarks	
0-6			100						Sapric Organics		
6-9	7.5YR	3/3	100						Silt Loam		
9-16		5/1		10YR	3/4	10	C	PL	Silt Loam		
		5/1		10110					,		
¹ Type: C=Con	centration. D=	Depletior	n. RM=Redu	ced Matrix	² Location	: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil Ir	dicators			Indicat	ors for Pro	hlemati	c Hydric So	ails: ³			
Histosol or					ka Color Ch		4		Alaska Gleyed Without H	le 5Y or Redder	
Histic Epip	. ,				ka Alpine sv				Underlying Layer		
	Sulfide (A4)				ka Redox W	•	,		Other (Explain in Remark	s)	
	Surface (A12))									
Alaska Gle		·					tic vegetatic pe position r		mary indicator of wetland h	ydrology,	
🗌 Alaska Red					арргорпаю	e lanusca	pe position i	nust be pr	esent		
🗌 Alaska Gle	yed Pores (A1	5)		⁴ Give of	letails of co	lor chang	e in Remark	S			
Restrictive Laye	r (if present):										
Туре:	χ. μ γ								Hydric Soil Present	? Yes 🔿 No 🖲	
Depth (inch	es):								.,		
Remarks:											
subrnd boulders throughout soil profile. no hydric soil indicators											
HYDROLO	GY										
Wetland Hydr	ology Indica	tors:							Secondary India	cators (two or more are required)	
Primary Indicat	ors (any one i	is sufficier	nt)						Water Stain	ned Leaves (B9)	
Surface W	. ,						erial Image		Drainage Patterns (B10)		
	r Table (A2)						ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)	
Saturation	. ,				arl Deposits		(61)			f Reduced Iron (C4)	
Water Mai	Deposits (B2)				drogen Sul y-Season W				Salt Deposits (C5) Stunted or Stressed Plants (D1)		
	,			_	her (Explain		. ,		_	c Position (D2)	
							11K5)		Shallow Aq	()	
Algal Mat or Crust (B4) Iron Deposits (B5)									Microtopographic Relief (D4)		
Surface Soil Cracks (B6)									FAC-neutral Test (D5)		
Field Observa	tions:										
Surface Water	Present?	Yes() No 🖲	De	epth (inches	5):					
Water Table P	resent?	Yes) No 🖲	De	epth (inches	5):		Wetla	nd Hydrology Presen	t? Yes 🔿 No 🖲	
Saturation Pre (includes capil		Yes 🤇) No 🖲		epth (inches						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											