WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: N	latanuska-Susitna Borough S	Sampling Date: 06-Aug-13				
Applicant/Owner: Alaska Energy Authority		Sampling	Point: SW13_T161_04				
Investigator(s): BAB	Landform (hillsid	e, terrace, hummocks etc.):	Toeslope				
Local relief (concave, convex, none): concave	Slope:17.6 %	/ 10.0 ° Elevation: 1342					
Subregion : Interior Alaska Mountains Lat.:	63.3293561731	Long.: -148.5133298	58 Datum: WGS84				
Soil Map Unit Name:		NWI classifi	cation: PSS1B				
Are climatic/hydrologic conditions on the site typical for this time of year? Yes ● No ○ (If no, explain in Remarks.) Are Vegetation □ , Soil □ , or Hydrology □ significantly disturbed? Are "Normal Circumstances" present? Yes ● No ○ Are Vegetation □ , Soil ☑ , or Hydrology □ naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS - Attach site map showing sa	impling point lo	cations, transects, importa	ant features, etc.				

Hydrophytic Vegetation Present?	Yes 🖲	Νο 〇	la tha Carrowlad Area	
Hydric Soil Present?	Yes 🖲	No 🔿	Is the Sampled Area	Yes 🖲 No 🔾
Wetland Hydrology Present?	Yes 🖲	No 🔿	within a Wetland?	

Remarks: Toeslope in a bowl shape, several springs throughout plot. talus field above.

VEGETATION - Use scientific names of plants. List all species in the plot.

^		Absolute	Absolute Dominant		Dominance Test worksheet:			
Tre	e Stratum	% Cover		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: 3 (B)			
3.		0						
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)			
5.		0						
	Total Cover:	0			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0				
	Salix polaris			FACW				
2.								
3.								
4.					UPL Species <u>5</u> x 5 = <u>25</u>			
5.		0			Column Totals: <u>54.3</u> (A) <u>136</u> (B)			
6.		0			Prevalence Index = B/A = 2.505			
7.		0						
8.		0			Hydrophytic Vegetation Indicators:			
					Dominance Test is > 50%			
		0			✓ Prevalence Index is ≤3.0			
	Total Cover:	40			Morphological Adaptations ¹ (Provide supporting data in			
Herb Stratum 50% of Total Cover: 20 20% of Total Cover: 8					Remarks or on a separate sheet)			
1.	Saxifraga nivalis	4	\checkmark	UPL	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Trisetum spicatum	1		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Poa alpina	0.1		FACU	be present, unless disturbed or problematic.			
4.	Oxyria digyna	6	\checkmark	FACU				
5.	Carex media	- 1		FACW	Plot size (radius, or length x width) <u>10m</u>			
6.	Geum rossii	0.1		FACU	% Cover of Wetland Bryophytes (Where applicable)			
7.	Ranunculus hyperboreus			OBL	% Bare Ground <u>10</u>			
8.	Parnassia kotzebuei	0.1		FACW	Total Cover of Bryophytes 15			
9.	Saxifraga punctata ssp. charlottae	1		UPL				
10.	Arctophila fulva	1		OBL	Hydrophytic			
-	Total Cover:	14.4			Vegetation			
	50% of Total Cover:		of Total Cover:	2.88	Present? Yes No O			
Rem	Remarks: trace sedros, clasar, artarc, equarv, bisoff, polviv, saxexi, poarc, poa alpigena, petfri, luzarc, tarala, and carmem							

Profile Descriptio		: (Describe to the depth needed to doc Matrix		cument the indicator or confirm the absence of indicators) Redox Features				_		
(inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-3			100					Fibric Organics		
3-18	5Y	3/2	100					Loamy Sand	lots of ang gravel	
	· ·							-		
				,						
								-		
¹ Type: C=Con	centration. D=	Depletion	RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix		
Hydric Soil In	dicators:			Indicators for Pro	oblemati	c Hydric So	oils: ³			
Histosol or				🗌 Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipe	. ,			Alaska Alpine swales (TA5)				Underlying Layer		
Hydrogen S				☐ Alaska Redox With 2.5Y Hue					(S)	
	Surface (A12)									
Alaska Gley	, ,			³ One indicator of	hydrophyt	tic vegetatio	n, one prin	nary indicator of wetland h	nydrology,	
Alaska Red				and an appropriat	e landscap	be position r	nust be pre	esent		
	ed Pores (A15	5)		⁴ Give details of co	olor chang	e in Remark	s			
Restrictive Layer	(ii present).							Undrie Ceil Drocomt	? Yes 🖲 No 🔾	
Type: Depth (inche);							Hydric Soil Present	r tes \odot no \bigcirc	
Remarks:										
HYDROLOG	GY									
Wetland Hydro	ology Indica	tors:						Secondary Indi	cators (two or more are required)	
Primary Indicat	ors (any one i	s sufficient	:)					Water Stai	ned Leaves (B9)	
✓ Surface Water	ater (A1)			Inundation Vi	isible on A	erial Imager	ту (В7)	🗌 Drainage F	Patterns (B10)	
High Wate	. ,	ble (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3						hizospheres along Living Roots (C3)		
Saturation	(A3)			Marl Deposits	s (B15)			Presence o	of Reduced Iron (C4)	
Water Mar	ks (B1)			Hydrogen Sul	lfide Odor	(C1)		Salt Depos	sits (C5)	
Sediment [Deposits (B2)			Dry-Season V	Vater Tabl	e (C2)		Stunted or	Stressed Plants (D1)	
Drift Depos	sits (B3)			Other (Explai	n in Rema	rks)		🖌 Geomorph	ic Position (D2)	
Algal Mat o	or Crust (B4)							Shallow Ad	quitard (D3)	
Iron Depos	sits (B5)							Microtopog	graphic Relief (D4)	
Surface So	il Cracks (B6)							FAC-neutra	al Test (D5)	
Field Observat	tions:	C								
Surface Water	Present?) No 🔿	Depth (inche	s): 2					
Water Table Pr	esent?	Yes 🖲) No 🔿	Depth (inche	s): 5		Wetla	nd Hydrology Presen	it? Yes 🖲 No 🔾	
Saturation Pres (includes capill		Yes 🖲	No	Depth (inche	s): 4					
		am gauge,	monitor we	ell, aerial photos, prev	vious inspe	ection) if ava	ilable:			
Remarks:										
small spring con	ning from mou	untainside.								