## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Jun-12									
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T07_01									
	gator(s): JGK		Landform (hills	side, terrac	ee, hummocks etc.): Floodplain									
	relief (concave, convex, none): undulating		Slope:		3 ° Elevation: 474									
	gion: Interior Alaska Mountains	l at ·	62.830228100		Long.: -148.257745705 Datum: NAD83									
		Lat	02.030220100											
	ap Unit Name:		2	<b>○</b> N: ○	NWI classification: PSS1C									
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  No  No  No  No  No  No  No  No  No														
	, , , , , , , , , , , , , , , , , , , ,													
Are V	egetation ☑ , Soil ☑ , or Hydrology ☐	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)									
SUMI	MARY OF FINDINGS - Attach site map show	wing sa	mpling point	locations	s, transects, important features, etc.									
	Hydrophytic Vegetation Present? Yes   No C													
	Hydric Soil Present? Yes ● No C			Is the Sampled Area										
	Wetland Hydrology Present? Yes ● No C		wit	thin a W	etland? Yes ◉ No ○									
Rema														
VEGI	<b>ETATION</b> -Use scientific names of plants. Li	ist all sn	ecies in the r	nlot										
	- 17 17 OSC Scientific flames of plants. El				Dominance Test worksheet:									
Tre	e Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species									
1.		0			That are OBL, FACW, or FAC:1(A)									
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)									
3.		_			Percent of dominant Species									
4.		0	_		That Are OBL, FACW, or FAC: 33.3% (A/B)									
5.		0			Prevalence Index worksheet:									
	Total Cover	: 0	_		Total % Cover of: Multiply by:									
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species 0 x 1 = 0									
1.	Populus balsamifera	30	<b>✓</b>	FACU	FACW Species 0.1 x 2 = 0.200									
2.	Saliv alayansis	15		FAC	FAC Species 33.1 x 3 = 99.3									
	Saliv commutata			FAC	FACU Species 49.2 x 4 = 196.8									
4.	Shepherdia canadensis			FACU	UPL Species 0 x 5 = 0									
5.	Alnus viridis	2		FAC	Column Totals: <u>82.4</u> (A) <u>296.3</u> (B)									
6.														
7.					Prevalence Index = B/A = 3.596									
8.		0			Hydrophytic Vegetation Indicators:									
9.		0			☐ Dominance Test is > 50%									
10.		0			Prevalence Index is ≤3.0									
	Total Cover				☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in									
Her	<b>b Stratum</b> 50% of Total Cover:	27 20	% of Total Cover:	10.8	Remarks or on a separate sheet)									
1.	Hedysarum alpinum		_	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)									
2.	Castilleja pallida		-	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must									
3.	Astragalus alpinus		_	FAC	be present, unless disturbed or problematic.									
4.	Lupinus arcticus	2	- 📙	FACU	Plot size (radius, or length x width)									
5.	Eurybia sibirica		-	FAC	% Cover of Wetland Bryophytes									
6.	Chamaenerion latifolium	1	-	FAC	(Where applicable)									
7.	Rosa acicularis	0.1	-	FACU FAC	% Bare Ground									
8.	Astragalus alpinus	$-\frac{0.1}{0.1}$	-	FACU	Total Cover of Bryophytes									
9.	Artemisia tilesii Potentilla anserina	0.1	-	FACW										
пушорнуш														
	Total Cover				The state of the s									
	<b>Total Cover</b> 50% of Total Cover:		- % of Total Cover:	5.68	Present? Yes • No •									

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SOIL Sampling Point: SW12\_T07\_01

Profile Description	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of						ators)			
Depth (inches)							. 2	Texture	Remarks	
	Color (moi			Color (moist)	<u>%</u>	Type <sup>1</sup>	<u>Loc</u> 2			
0-14	2.5Y	4/2	50					Sand	rounded-semiangular gravel & rounded co	
			— —							
¹Type: C=Con	centration. D=	Depletion. I		Matrix <sup>2</sup> Location				nnel. M=Matrix		
Hydric Soil Ir	ndicators:		J	Indicators for Pr	oblematio	Hydric So	oils: <sup>3</sup>			
☐ Histosol or Histel (A1)				Alaska Color C	hange (TA4	1)4		Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipe	edon (A2)			Alaska Alpine swales (TA5)  Underlying Layer						
Hydrogen :	Sulfide (A4)			Alaska Redox \	With 2.5Y H	lue	<b>✓</b>	Other (Explain in Remark	rs)	
☐ Thick Dark	Surface (A12)			_						
Alaska Gle	yed (A13)			One indicator of and an appropria				nary indicator of wetland h	ydrology,	
Alaska Red	ox (A14)			ана ан арргорна	ie iaiiuscap	e position i	nust be pre	SCIIC		
Alaska Gley	yed Pores (A15	)		4 Give details of o	olor change	e in Remark	S			
Restrictive Laye	r (if present):									
Type:								Hydric Soil Present	? Yes 💿 No 🔾	
Depth (inch	es):									
Remarks:							•			
HYDROLO	GY									
Wetland Hydr		ors:						Secondary Indi	cators (two or more are required)	
Primary Indicat	ors (any one is	sufficient)							ned Leaves (B9)	
Surface W	ater (A1)			☐ Inundation V	isible on A	erial Imager	y (B7)	☐ Drainage P	atterns (B10)	
High Water Table (A2)				☐ Sparsely Veg	etated Cor	cave Surfac	e (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation (A3)				Marl Deposit	s (B15)			Presence o	f Reduced Iron (C4)	
☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (						(C1)		☐ Salt Depos	its (C5)	
Sediment	Deposits (B2)			Dry-Season \	Water Tabl	e (C2)		Stunted or	Stressed Plants (D1)	
✓ Drift Depo	sits (B3)			Other (Expla	in in Rema	rks)		<b>✓</b> Geomorphi	ic Position (D2)	
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)	
☐ Iron Depo	sits (B5)							Microtopog	raphic Relief (D4)	
Surface So	oil Cracks (B6)							FAC-neutra	l Test (D5)	
Field Observa	tions:									
Surface Water	Present?	Yes 🔾	No 🕑	Depth (inche	es):					
Water Table P	resent?	Yes $\bigcirc$	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes 💿 No 🔾	
Saturation Pre	sent?	Yes 〇	No (		•					
(includes capil				Depth (inche						
Describe Record	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ction) if ava	ilable:			
Domarko										
Remarks:										
I										

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