## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 04-Aug-12							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T91_03							
nvesti	gator(s): CTS, EKJ		Landform (hill	side, terrac	e, hummocks etc.): Knob							
_ocal r	elief (concave, convex, none): convex		Slope:	% / 3.2	2 ° Elevation: 571							
Subrec	ion : Southcentral Alaska	Lat ·	62.689008204		Long.: -148.922655818 Datum: NAD83							
-	p Unit Name:		02.00000020	<u>'</u>	NWI classification: Upland							
				● No ○								
	natic/hydrologic conditions on the site typical for this egetation . Soil . or Hydrology .	-	tly disturbed?		(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○							
	egetation , Soil , or Hydrology	•	oroblematic?		eded, explain any answers in Remarks.)							
				·								
SUMI	MARY OF FINDINGS - Attach site map sho	owing sa	mpling point	locations	s, transects, important features, etc.							
	Hydrophytic Vegetation Present? Yes   No	$\supset$		41	1.14							
	Hydric Soil Present? Yes ○ No	•	Is the Sampled Area within a Wetland? Yes ○ No ●									
	Wetland Hydrology Present? Yes O No	•	Wi	thin a W	etland? Yes UND S							
Remarks: Stob b/c the Betgla is definitely tall, but Slobe is better veg description												
/EGE	TATION - Use scientific names of plants.	List all sp	ecies in the	plot.								
		Absolute	e Dominant	Indicator	Dominance Test worksheet:							
Tre	e Stratum	% Cove		Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)							
1.		0			Total Number of Dominant							
2.		0			Species Across All Strata: 4 (B)							
3.		0	_ 📙		Percent of dominant Species							
4.		_ 0	_		That Are OBL, FACW, or FAC: 75.0% (A/B)							
5.		0	_		Prevalence Index worksheet:							
	Total Cove		_		Total % Cover of: Multiply by:							
Sap	ling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover:	0	OBL Species <u>0</u> x 1 = <u>0</u>							
1.	Betula glandulosa	50	<b>✓</b>	FAC	FACW Species <u>67</u> x 2 = <u>134</u>							
2.	Betula neoalaskana	3	_	FACU	FAC Species <u>126</u> x 3 = <u>378</u>							
3.	Vaccinium uliginosum	40	_	FAC	FACU Species <u>18</u> x 4 = <u>72</u>							
4.	Vaccinium vitis-idaea	35	- 📙	FAC	UPL Species <u>0</u> x 5 = <u>0</u>							
5.	Rhododendron tomentosum	65	_	FACW	Column Totals: <u>211</u> (A) <u>584</u> (B)							
6.	Spiraea stevenii	1	-	FACU	Prevalence Index = B/A =2.768_							
7.	Empetrum nigrum		-	FAC								
	Picea glauca	4	-	FACU	Hydrophytic Vegetation Indicators:							
9.		$- \frac{0}{0}$	-		✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0							
10.	Total Cove		_ 🗀									
Her	b Stratum 50% of Total Cover:			: 39.8	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)							
	Cornus canadensis	10	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)							
	Rubus chamaemorus			FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must							
3.					be present, unless disturbed or problematic.							
					District (and its and installed and its and it							
					Plot size (radius, or length x width) 10m   % Cover of Wetland Bryophytes 70							
_		0			% Cover of Wetland Bryophytes(Where applicable)							
7.		0			% Bare Ground							
8.		0	_ 📙		Total Cover of Bryophytes							
9.			- 📙									
10 Hydrophytic												
10.		er: 12			Vegetation							
10.	<b>Total Cove</b> 50% of Total Cover:		_ % of Total Cover:	2.4	Present? Yes   No							

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SOIL Sampling Point: SW12\_T91\_03

	on: (Describe to	o the depth n	eeded to docu	ment the indicator or c	onfirm the ab		cators)		
Depth (inches)	Color (m	noist)		Color (moist)	%	Type <sup>1</sup>	Loc 2	Texture	Remarks
0-2			85					Fibric Organics	15% roots
2-7			80					Hemic Organics	20% roots
7-9	10YR	6/2	100	-				Loamy Sand	Charcoal on top, few roots
9-11	5YR	2.5/2	100					Loamy Sand	-
									few semirounded gravel
11-13	7.5YR	3/3						Loamy Sand	few semirounded gravel
13-14	10YR	4/2	100					Loamy Sand	few semirounded gravel
14-17	7.5YR	2.5/3	100					Loamy Sand	few semirounded gravel
17-21	10YR	3/6	100					Loamy Sand	
¹Type: C=Con	centration. D	D=Depletion	n. RM=Reduc	ced Matrix <sup>2</sup> Location	on: PL=Por	e Lining. RO	=Root Cha	nnel. M=Matrix	
Hydric Soil In	ndicators:			Indicators for P	roblemati	c Hydric S	oils: <sup>3</sup>		
Histosol or	Histel (A1)			Alaska Color (	Change (TA	4 4)		Alaska Gleyed Without H	lue 5Y or Redder
Histic Epipe	. ,			Alaska Alpine	swales (TA	5)		Underlying Layer	
Hydrogen S	Sulfide (A4)			Alaska Redox	With 2.5Y H	Hue		Other (Explain in Remar	ks)
☐ Thick Dark	Surface (A1	2)							
Alaska Gley	yed (A13)			One indicator of and an appropria				nary indicator of wetland I	nydrology,
Alaska Red	lox (A14)					•	•		
Alaska Gley	yed Pores (A	15)		<sup>4</sup> Give details of	color chang	e in Kemari	(S		
Restrictive Laye	r (if present)	):							0 0
Type:	00):							Hydric Soil Present	? Yes ○ No •
Depth (inch	es).								
HYDROLO	GY								
Wetland Hydr	ology Indic	cators:						Secondary Ind	icators (two or more are required)
Primary Indicat	tors (any one	e is sufficier	nt)					Water Sta	ined Leaves (B9)
Surface Water (A1)				Inundation	Visible on A	erial Image	ry (B7)	☐ Drainage I	Patterns (B10)
High Water Table (A2)				Sparsely Ve	getated Cor	ncave Surfa	ce (B8)		Rhizospheres along Living Roots (C3)
Saturation (A3)				Marl Deposi	ts (B15)				of Reduced Iron (C4)
Water Mar				☐ Hydrogen S				Salt Depos	
☐ Sediment Deposits (B2) ☐ Drift Deposits (B3)				☐ Dry-Season					r Stressed Plants (D1)
l — ·	isits (B3) or Crust (B4)			Uther (Expl	ain in Rema	rks)			ic Position (D2) quitard (D3)
☐ Iron Depo	, ,	)					graphic Relief (D4)		
l — ·	oil Cracks (B6	5)							al Test (D5)
Field Observa	,	,,						TAC ficult	ii (23)
Surface Water		Yes	No ●	Depth (inch	es):				
Water Table P			No ●		•		Wetla	nd Hydrology Preser	nt? Yes O No 💿
Saturation Pre				Depth (inch	,		TT CCIA	na nyarology i reser	ic. ics o no o
(includes capill		Yes	No 💿	Depth (inch	ies):				
Describe Record	ded Data (str	ream gauge	, monitor we	ell, aerial photos, pr	evious inspe	ection) if ava	ailable:		
Remarks:									
no wetland hyd	rology indica	itors							
	3,								

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