## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 19-Aug-15			
Applicant/Owner: Alaska Energy Authority				Sampling Point: SW15_T327_06			
nvestigator(s): GVF		Landform (hil	lside, terrac	e, hummocks etc.): Hillside			
Local relief (concave, convex, none): flat		Slope: 21.2		,			
· · · · · · · · · · · · · · · · · · ·	l ot :						
Subregion : Cook Inlet Mountains	Lat.:						
Soil Map Unit Name:				NWI classification: PSS1B			
Are climatic/hydrologic conditions on the site typical for this  Are Vegetation , Soil , or Hydrology	significant	ly disturbed?	No O     Are "N	(If no, explain in Remarks.) lormal Circumstances" present? Yes  ● No ○			
Are Vegetation . , Soil . , or Hydrology .	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)			
SUMMARY OF FINDINGS - Attach site map sho	owing sar	mplina point	locations	s transects important features etc			
	_	Is the Sampled Area					
,			ithin a W	-			
Wetland Hydrology Present? Yes   No	$\mathcal{O}_{0}$	**	1011111 a <b>vv</b>	Ctiana:			
Remarks: hydrology prob affected by recent rains.							
VECETATION Has established as a state of plants.	مند المشادة	!!					
/EGETATION - Use scientific names of plants.	List all sp	ecies in the	piot.	Γ			
	Absolute		Indicator	Dominance Test worksheet:			
Tree Stratum	% Cove	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)			
1.				Total Number of Dominant			
2.	- —			Species Across All Strata:3(B)			
3.				Percent of dominant Species That Are OBL, FACW, or FAC:66.7% (A/B)			
4 5.	- —			That Are OBL, FACW, or FAC: 66.7% (A/B)			
Total Cove				Prevalence Index worksheet:			
		_		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum 50% of Total Cover:	0 209	% of Total Cover	: _ 0	OBL Species 0 x 1 = 0			
Alnus viridis ssp. sinuata	80	<b>✓</b>	FAC	FACW Species <u>6</u> x 2 = <u>12</u>			
2. Ribes triste	0.1		FAC	FAC Species <u>106.1</u> x 3 = <u>318.3</u>			
Viburnum edule			FACU	FACU Species <u>36.1</u> x 4 = <u>144.4</u>			
4				UPL Species <u>0</u> x 5 = <u>0</u>			
5				Column Totals: <u>148.2</u> (A) <u>474.7</u> (B)			
6				Prevalence Index = B/A = 3.203			
7.							
8.				Hydrophytic Vegetation Indicators:			
9.				✓ Dominance Test is > 50%			
10.	0			☐ Prevalence Index is ≤3.0			
Herb Stratum 50% of Total Cover:			r: 16.04	Morphological Adaptations (Plovide supporting data in Remarks or on a separate sheet)			
Athyrium cyclosorum	20	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation (Explain)			
Phegopteris connectilis		<u>✓</u>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
Gymnocarpium dryopteris			FACU	be present, unless disturbed or problematic.			
Heracleum maximum			FACU				
Geranium erianthum			FACU	Plot size (radius, or length x width)			
6. Senecio triangularis	3		FACW	% Cover of Wetland Bryophytes (Where applicable)			
7. Calamagrostis canadensis	3		FAC	% Bare Ground			
8. Veratrum viride	3		FAC	Total Cover of Bryophytes3			
Streptopus amplexifolius	3		FACU				
10. Sanguisorba canadensis	3		FACW	Hydrophytic			
Total Cove	-	_		Vegetation			
50% of Total Cover:	34 209	% of Total Cover	13.6	Present? Yes   No			
Remarks:							

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SOIL Sampling Point: SW15\_T327\_06

0-1 1-8 8-9 10	(A1) (A2) (A4) e (A12) 3) 4) es (A15)		Indicators for F Alaska Color ( Alaska Alpine	on: PL=Pore Lir  Problematic Hy Change (TA4)  s swales (TA5) t With 2.5Y Hue of hydrophytic ve ate landscape po	egetation, one osition must b	Mucky Peat Muck Sandy Loan Loamy Sand Channel. M=Ma Alaska Gle Underlying Other (Exp	n d atrix yed Without Hu J Layer Dlain in Remark	ydrology,
1-8  8-9  9-20  1 Type: C=Concentra  Hydric Soil Indicat  Histosol or Histel  Histic Epipedon ( Hydrogen Sulfide  Thick Dark Surfac  Alaska Gleyed (A  Alaska Redox (AI  Alaska Gleyed Po  Restrictive Layer (if pr  Type:  Depth (inches):	y 4/3  ion. D=Depletion  ors: (A1) (A2) (A4) e (A12) 3) 4) es (A15)	n. RM=Reduce	Indicators for F  Alaska Color ( Alaska Alpine Alaska Redox  One indicator cand an appropria	Problematic Hy  Change (TA4)  swales (TA5)  With 2.5Y Hue  of hydrophytic ve ate landscape po	egetation, one osition must b	Muck Sandy Loan Loamy Sand Loamy Sand Channel. M=Ma Alaska Gle Underlying Other (Exp	n d htrix yed Without Hu y Layer olain in Remark	ue 5Y or Redder s) ydrology,
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Alaska Gleyed Po Restrictive Layer (if pr Type: Depth (inches):	res (A15)						Soil Present?	? Yes • No O
Restrictive Layer (if pr Type: Depth (inches):			* Give details of	color change in	Kemarks	Hydric S	Soil Present?	? Yes <sup>●</sup> No ○
Type: Depth (inches):	esent):					Hydric S	Soil Present?	? Yes • No O
Depth (inches):						Hydric S	Soil Present?	? Yes ● No ○
, , ,								
Remarks:								
HYDROLOGY								
Wetland Hydrology	Indicators:					_9		cators (two or more are required)
Primary Indicators (a		nt)						ned Leaves (B9)
Surface Water (A	•			Visible on Aerial				atterns (B10)
✓ High Water Table	(A2)			egetated Concave	e Surface (B8)	)		nizospheres along Living Roots (C3)
Saturation (A3)			Marl Deposi	its (B15)				f Reduced Iron (C4)
Water Marks (B1				Sulfide Odor (C1)	-		Salt Deposi	
Sediment Depos	• ,			Water Table (C				Stressed Plants (D1)
Drift Deposits (B	•		☐ Other (Expl	lain in Remarks)				c Position (D2)
Algal Mat or Crus	` '						Shallow Aq	• •
Iron Deposits (B.	,						_	raphic Relief (D4)
Surface Soil Crac	(S (B6)						FAC-neutra	i lest (D5)
Field Observations: Surface Water Prese	+2 Voc	○ No ●	Depth (inch	has).				
			, ,	•				
Water Table Present	Yes	● No ○	Depth (inch	nes): 7	We	etland Hydrol	logy Present	t? Yes • No O
Saturation Present? (includes capillary fri	ige) Yes	● No ○	Depth (inch	nes): 6				
Describe Recorded Da		e, monitor well,	, aerial photos, pr	evious inspection	n) if available:			
Remarks:								
water table likelyl affe	ted by recent ra	ainfall						

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