## WETLAND DETERMINATION DATA FORM - Alaska Region

Project/	Site: Susitna-Watana Hydroelectric Project	В	orough/City:	Matanusk	a-Susitna Borough Sampling Date:	19-Aug-15
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SV	W15_T322_06
	ator(s): BAB		Landform (hill	side, terrac	e, hummocks etc.): Hillside	
-	elief (concave, convex, none): undulating		Slope: 36.3			
	ion: Cook Inlet Mountains	Lat.:				atum: WGS84
_						
	o Unit Name:			<u> </u>	NWI classification: Upland	<u> </u>
Are Ve	natic/hydrologic conditions on the site typical for this egetation  , Soil  , or Hydrology  , Soil  , or Hydrology	-	disturbed?		(If no, explain in Remarks.)  Iormal Circumstances" present?  Yes  ded, explain any answers in Remarks.)	
SUMN	IARY OF FINDINGS - Attach site map sh	nowing sam	pling point	locations	s, transects, important features,	etc.
	Hydrophytic Vegetation Present? Yes O No				· · · · · · · · · · · · · · · · · · ·	
	Hydric Soil Present? Yes No		Is	the Sam	pled Area	
	Wetland Hydrology Present? Yes O No		wi	ithin a W	etland? Yes ○ No •	
	rks: mid slope portion steep and dry					
VEGE	TATION - Use scientific names of plants.	List all spe	cies in the	plot.		
		Absolute	Dominant		Dominance Test worksheet:  Number of Dominant Species	
	Stratum Picea glauca	<u><b>% Cover</b></u> 5	Species?	<b>Status</b> FACU	That are OBL, FACW, or FAC:	<u>2</u> (A)
-			<b>✓</b>		Total Number of Dominant	
3.				FACU	Species Across All Strata:	(B)
4.					Percent of dominant Species That Are OBL, FACW, or FAC:	50.0% (A/B)
5.		$ \frac{0}{0}$				<u> </u>
-	Total Cov				Prevalence Index worksheet:  Total % Cover of: Multiply	hv:
Sapl	ing/Shrub Stratum 50% of Total Cover:		of Total Cover:	1.4	OBL Species 0 x 1 =	
					FACW Species 0 x 2 =	0
-	Vaccinium uliginosum		<b>✓</b>	FAC	FAC Species 87 x 3 =	0 261
-	Empetrum nigrum	_		FAC	FACU Species 12 x 4 =	48
	Betula glandulosa Rhododendron groenlandicum			FAC FAC	UPL Species 0 x 5 =	0
	Vaccinium vitis-idaea			FAC		
-	Patula assidentalia			FAC	Column Totals: 99 (A)	(B)
-	Picca dauca	2	$\Box$	FACU	Prevalence Index = B/A =	3.121
-	Betula kenaica			FACU	Hydrophytic Vegetation Indicators:	
-	Spiraea stevenii	1		FACU	Dominance Test is > 50%	
-					Prevalence Index is ≤3.0	
	Total Cov • Stratum 50% of Total Cover:		of Total Cover	: 18.4	Morphological Adaptations (Provide Remarks or on a separate sheet)	supporting data in
1.		0			Problematic Hydrophytic Vegetation	(Explain)
					<sup>1</sup> Indicators of hydric soil and wetland hydro	ology must
					be present, unless disturbed or problemati	c.
4.					Plot size (radius, or length x width)	_10m
5.					% Cover of Wetland Bryophytes	10111
		_			(Where applicable)	
					% Bare Ground	_10
					Total Cover of Bryophytes	_90
		_				
10.	Tatal Car				Hydrophytic	
	<b>Total Cov</b> 50% of Total Cover:		of Total Cover	: 0	Vegetation Present? Yes ○ No ●	
_			o. rotal cover.	·	1 22 2	
Rema	arks:					

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SOIL Sampling Point: SW15\_T322\_06

(inches)	Calas (m	-:	0/	Color (moist)	0/	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2	Color (m	oistj	<u> </u>	Color (moist)		туре	LOC	Fibric Organics	Oi
2-4								Hemic Organics	Oe
4-5.5		6/2	100					Very Fine Sandy Loam	
		6/3							-
5.5-6	5YR	3/1						Sapric Organics	Oa .
6-10	5YR	2.5/1						Sandy Loam	
10								Boulders	
	-								_
Type: C=Con	centration. D	=Depletion	ı. RM=Reduce	ed Matrix <sup>2</sup> Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	_
ydric Soil Ir	ndicators:			Indicators for P	roblematic	Hydric So	ils: <sup>3</sup>		
Histosol or	Histel (A1)			Alaska Color C	hange (TA4)	4		Alaska Gleyed Without H	Hue 5Y or Redder
Histic Epipe	edon (A2)			Alaska Alpine	, ,			Underlying Layer	
Hydrogen :	Sulfide (A4)			Alaska Redox	With 2.5Y Hu	ie		Other (Explain in Remar	rks)
_	Surface (A1	2)		3 One indicator of	f hydronhytic	vegetation	one nrim	nary indicator of wetland	hydrology
☐ Alaska Gley				and an appropria	ite landscape	position m	nust be pre	esent	nyurology,
☐ Alaska Red	` ,	· - \		4 Give details of o	color change	in Remarks	6		
	yed Pores (A								
strictive Laye	er (if present)	:							
Type:								Hydric Soil Present	t? Yes 🔾 No 🖲
Depth (inch	ies):								
		erved							
Depth (inchemarks:  hydric soil in		erved							
emarks: hydric soil in	dicators obse								
emarks: hydric soil in  YDROLO  Vetland Hydric	GY  rology Indic	ators:							licators (two or more are required)
emarks: hydric soil in  YDROLO  etland Hydr imary Indicat	GY  rology Indic	ators:	t)					Water Sta	nined Leaves (B9)
YDROLO  Tetland Hydrimary Indicat  Surface W	GY rology Indictors (any one later (A1)	ators:	t)	☐ Inundation \				Water Sta	nined Leaves (B9) Patterns (B10)
YDROLO  etland Hydriderimary Indicat  Surface W  High Wate	GY rology Indictors (any one fater (A1) er Table (A2)	ators:	t)	Sparsely Veg	getated Conc			Water Sta Drainage Oxidized I	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C
PROLO  PROLO  etland Hydr  imary Indicat  Surface W  High Wate  Saturation	GY rology Indicators (any one (ater (A1)) er Table (A2)	ators:	t)	Sparsely Veg	getated Conc ts (B15)	ave Surfac		Water Sta Drainage Oxidized I Presence	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4)
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YDROLO  YDROLO	GY  rology Indicators (any one later (A1) er Table (A2) er (A3) erks (B1) Deposits (B2)	ators: : is sufficier	t)	Sparsely Veg Marl Deposit Hydrogen St Dry-Season	getated Conc ts (B15) ulfide Odor (O Water Table	ave Surface C1) (C2)		Water Sta Drainage Oxidized I Presence Salt Depo	ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) or Stressed Plants (D1)
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**Marks: hydric soil in  **POROLOGE  **Eland Hydre*   Surface W   High Water Mar   Sediment     Drift Depo     Algal Mat     Iron Depo     Surface Sceld Observa     Urden Water Water Table Paturation Prencludes capil     Isscribe Record	GY  rology Indicators observed and one of the control of the contr	Yes Yes Yes eam gauge	No ● No ● No ● No ● No •	Sparsely Veg Marl Deposit Hydrogen St Dry-Season Other (Expla	getated Conc ts (B15) ulfide Odor (( Water Table ain in Remark es): es):	ave Surface C1) (C2) (ss)	e (B8) Wetlar	Water Sta Drainage Oxidized I Presence Salt Depo Stunted o Geomorpl Shallow A Microtopo	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) equitard (D3) graphic Relief (D4) ral Test (D5)

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