WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 26-Aug-15		
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW15_T346_04		
nvesti	gator(s): SLI, SCB		Landform (hill	side, terrac	e, hummocks etc.): Hillside		
_ocal	relief (concave, convex, none): convex		Slope: 17.6	% / 10.0	0 ° Elevation:		
Subre	gion : Interior Alaska Mountains	Lat.:			Long.: Datum: WGS84		
	ap Unit Name:				NWI classification: Upland		
			-2 Voc	No ○			
	matic/hydrologic conditions on the site typical for this ting (egetation \square , Soil \square , or Hydrology \square s	•	ly disturbed?		(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○		
		•	roblematic?		eded, explain any answers in Remarks.)		
	, ,						
SUM	MARY OF FINDINGS - Attach site map show	ving sar	npling point	locations	s, transects, important features, etc.		
	Hydrophytic Vegetation Present? Yes No No			Is the Sampled Area			
	Hydric Soil Present? Yes No •)					
	Wetland Hydrology Present? Yes O No •)	WI	thin a W	retiand?		
Rem	arks:						
/EGI	ETATION -Use scientific names of plants. List	st all sp	ecies in the	plot.			
		Absolute	Dominant	Indicator	Dominance Test worksheet:		
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)		
1.					Total Number of Dominant		
2.					Species Across All Strata:3(B)		
3.					Percent of dominant Species		
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)		
5.	Title				Prevalence Index worksheet:		
	Total Cover:		•	_	Total % Cover of: Multiply by:		
Sap	lling/Shrub Stratum 50% of Total Cover:	0 20%	% of Total Cover:	0	OBL Species <u>0</u> x 1 = <u>0</u>		
1.	Betula glandulosa	60	✓	FAC	FACW Species 15 x 2 = 30		
2.	Vaccinium uliginosum	30	✓	FAC	FAC Species 102 x 3 = 306		
3.	Rhododendron tomentosum	10		FACW	FACU Species 2 x 4 = 8		
4.	Empetrum nigrum			FAC	UPL Species		
5.	Vaccinium vitis-idaea	5		FAC	Column Totals: <u>119</u> (A) <u>344</u> (B)		
6.	Spiraea stevenii			FACU FAC	Prevalence Index = B/A =		
7. 8.	Rhododendron groenlandicum			FAC	Hudwankatia Vanatatian Tudicataus		
9.		0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%		
					✓ Prevalence Index is ≤3.0		
	Total Cover:		_		Morphological Adaptations (Provide supporting data in		
Hei	b Stratum 50% of Total Cover:			22.6	Remarks or on a separate sheet)		
1.	Arctagrostis latifolia	5	✓	FACW	Problematic Hydrophytic Vegetation (Explain)		
2.	Cornus suecica	1		FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.		0			be present, unless disturbed or problematic.		
		_			Plot size (radius, or length x width)		
5.					% Cover of Wetland Bryophytes		
					(Where applicable)		
					% Bare Ground		
					Total Cover of Bryophytes		
		0					
10.	Total Covers				Hydrophytic Vegetation		
	Total Cover:		-				
	50% of Total Cover:	3 209	6 of Total Cover:	1.2	Present? Yes • No •		

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SOIL Sampling Point: SW15_T346_04

									10mii: 51115_1545_64		
Profile Descripti		the depth ne Matrix	eded to docu	ment the indicator or co	nfirm the ab		ators)				
Depth (inches)	Depth Color (moist)					1	_Loc_2	Texture	Remarks		
0-3	Color (mc	oist)	<u> </u>	Color (moist)	_%_	Туре	LOC	Hemic Organics	Remarks		
3-12	10YR	3/3	50					Loam			
					-						
12-13	10YR	2/2	100					Loam			
13-21	10YR	5/2	100					Loamy Sand			
¹Type: C=Cor	centration. D	=Depletion.	RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hvdric Sc	oils: ³				
	Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without Hu	ie 5Y or Redder		
Histic Epip	. ,			Alaska Alpine s		-		Underlying Layer			
	Sulfide (A4)			Alaska Redox V	With 2.5Y	Hue		Other (Explain in Remarks	5)		
Thick Dark	Surface (A12)		30							
Alaska Gle	yed (A13)			and an appropriat				nary indicator of wetland hy esent	/drology,		
Alaska Red	` '			4 Give details of co		•	•				
☐ Alaska Gle	yed Pores (A1	5)		- Give details of C	olor chang	e iii keiliaik	5				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present?	Yes O No 💿		
Depth (inch	nes):										
Remarks:											
no hydric soil in	dicators										
HYDROLO	GY										
Wetland Hydi		itors:						Secondary Indic	ators (two or more are required)		
Primary Indica	tors (any one	is sufficient)					Water Stained Leaves (B9)			
☐ Surface W	ater (A1)			☐ Inundation V	isible on A	Aerial Image	y (B7)	☐ Drainage Pa	atterns (B10)		
High Water Table (A2)				☐ Sparsely Veg	etated Co	ncave Surfac	ce (B8)	Oxidized Rh	nizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposit	s (B15)			Presence of	Reduced Iron (C4)		
Water Mai	Water Marks (B1)				lfide Odor	(C1)		Salt Deposit	ts (C5)		
Sediment	Deposits (B2)			Dry-Season \	Nater Tab	le (C2)		Stunted or	Stressed Plants (D1)		
Drift Depo	osits (B3)			Other (Explai	in in Rema	rks)		Geomorphic	Position (D2)		
	or Crust (B4)							Shallow Aqu	uitard (D3)		
Iron Depo								_	raphic Relief (D4)		
	oil Cracks (B6)						T	✓ FAC-neutral	Test (D5)		
Field Observa		V (N- O								
Surface Water			No 💿	Depth (inche	es):						
Water Table P		Yes \subseteq	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Present	t? Yes ○ No •		
Saturation Pre (includes capil		Yes \bigcirc	No 💿	Depth (inche	es):						
		am dalide	monitor we	ell aerial nhotos nre	vious insne	ection) if ava	ilahle:				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no primary hydrology indicators											

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