WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T192_03			
	gator(s): CTS, AMD	side, terrac	e, hummocks etc.): Toeslope					
	relief (concave, convex, none): flat		Slope:	% / 2.3	<u>-</u>			
	gion : Interior Alaska Mountains	l at ·	63.331554770		Long.: -148.239048719 Datum: NAD83			
		03.33 1334770						
	ap Unit Name:		- \	<u> </u>	NWI classification: Upland			
	matic/hydrologic conditions on the site typical for this ti	•		● No ○	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○			
		•	y disturbed?		ionnal oli cametanoco procont.			
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐	naturally p	roblematic?	(If nee	eded, explain any answers in Remarks.)			
SUM	MARY OF FINDINGS - Attach site map sho	wing san	npling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No	•						
	Hydric Soil Present? Yes ○ No ④		Is the Sampled Area					
	Wetland Hydrology Present?		within a Wetland? Yes ○ No •					
Rem	7		<u> </u>					
VEGI	ETATION - Use scientific names of plants. L	ict all ca	ocios in the	nlot				
VLG	TATION - Ose scientific flames of plants. L	•		•	Dominance Test worksheet:			
Tre	e Stratum	Absolute % Cover		Indicator Status	Number of Dominant Species			
	Picea glauca	30	✓	FACU	That are OBL, FACW, or FAC: (A)			
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)			
3.								
4.		- 0			Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)			
5.		0						
	Total Cover	r: 30			Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sar	oling/Shrub Stratum 50% of Total Cover:	15 20%	of Total Cover:	6	001.0			
			_		OBL Species 0 x1 = 0 FACW Species 25.2 x2 = 50.40			
	Vaccinium uliginosum	65	✓	FAC	FAC Species 152.1 x 3 = 456.3			
2.	Betula nana	40		FAC FAC	FACU Species 53.1 x 4 = 212.4			
3. 4.	Empetrum nigrum Rhododendron tomentosum	- <u>25</u> 20		FACW	UPL Species 0 x 5 = 0			
5.	Vaccinium vitis-idaea	10		FAC				
	Salix glauca	10		FAC	Column Totals: <u>230.4</u> (A) <u>719.1</u> (B)			
	Picea glauca	10		FACU	Prevalence Index = B/A = 3.121			
8.	Salix pulchra	3		FACW	Hydrophytic Vegetation Indicators:			
	Rosa acicularis	1		FACU	Dominance Test is > 50%			
	Arctous ruber	0.1		FACW	☐ Prevalence Index is ≤3.0			
10.	Total Cover		_		Morphological Adaptations ¹ (Provide supporting data in			
He	rb Stratum 50% of Total Cover:		% of Total Cover	36.82	Remarks or on a separate sheet)			
1.	Cornus canadensis	10	✓	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Festuca altaica	2		FAC	¹ Indicators of hydric soil and wetland hydrology must			
3.	Bistorta plumosa	ີ າ		FACU	be present, unless disturbed or problematic.			
4.	Petasites frigidus			FACW	Plot size (radius or length y width)			
5.	Saussurea americana	0.1		FACW	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes			
6.	Chamaenerion angustifolium	0.1		FACU	(Where applicable)			
7.	Pedicularis labradorica	0.1		FACW	% Bare Ground			
8.		0			Total Cover of Bryophytes 80			
		0						
9.		0			Hydrophytic			
9. 10.								
	Total Cover 50% of Total Cover:	: 16.3		3.26	Vegetation Present? Yes No No			

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SOIL Sampling Point: SW13_T192_03

								r			
Profile Description		the depth ne	eded to docu	ment the indicator or co			ators)				
Depth (inches)	Depth			Redox Features			Texture	Downster			
	Color (mo	oist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	_Loc_2		Remarks		
0-3			100					Hemic Organics			
3-6	10YR		100		-			Silt Loam			
6-7	2.5Y	5/2	100					Loamy Sand			
7-20	10YR	3/3	100					Loam			
-											
¹Type: C=Con	centration. D:	=Depletion	RM=Reduc	ced Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
		'		Indicators for Pr							
Hydric Soil In						4	DIIS:	1	57. 5.11		
Histosol or	. ,			Alaska Color Change (TA4) Alaska Alpine swales (TA5)				Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
Histic Epipe				Alaska Redox \	•	•		Other (Explain in Remarks)			
	Sulfide (A4)	`		☐ Alaska Redux V	/VIUI 2.51 I	nue		Carer (Explain in Remark	-,		
Alaska Gley	Surface (A12))		³ One indicator of	hydrophy	tic vegetatio	n, one prim	nary indicator of wetland hy	ydrology,		
Alaska Red				and an appropria	te landsca _l	pe position r	nust be pre	esent			
	ed Pores (A1	5)		4 Give details of o	olor chang	e in Remark	s				
-		-									
Restrictive Laye	r (if present):										
Type:	\·							Hydric Soil Present?	Yes ○ No •		
Depth (inch	es):										
Remarks:											
no hydric soil ir	ndicators										
HYDROLO	GΥ										
Wetland Hydr		ntors:						Secondary Indic	ators (two or more are required)		
Primary Indicat			:)						ned Leaves (B9)		
Surface W	Surface Water (A1)				isible on A	erial Imager	rv (B7)		atterns (B10)		
	High Water Table (A2)			Sparsely Vegetated Concave Surface (B8)					nizospheres along Living Roots (C3)		
Saturation (A3)			Marl Deposits (B15)					Reduced Iron (C4)			
Water Marks (B1)			Hydrogen Sulfide Odor (C1)				Salt Deposi	ts (C5)			
Sediment Deposits (B2)				Dry-Season Water Table (C2)				Stunted or	Stressed Plants (D1)		
☐ Drift Deposits (B3)				Other (Expla	in in Rema	ırks)		Geomorphic	Position (D2)		
Algal Mat	or Crust (B4)					,		Shallow Aqu	uitard (D3)		
☐ Iron Depo	sits (B5)							Microtopogi	raphic Relief (D4)		
Surface Sc	il Cracks (B6)	ı						☐ FAC-neutral	Test (D5)		
Field Observa	tions:										
Surface Water	Present?	Yes C	No 💿	Depth (inche	es):						
Water Table P	resent?	Yes C	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Present	t? Yes O No 💿		
Saturation Pre	sent?	Voc (No •	, ,	•						
(includes capill	ary fringe)	165 0	NO O	Depth (inche	:5):						
Describe Record	led Data (stre	am gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ilable:				
Remarks:											
no wetland hydrology indicators											

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