WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-12							
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T40_08							
	gator(s): CTS, EKJ	e, hummocks etc.): Channel (active)										
-	elief (concave, convex, none): rolling		_	% / 2.0								
	· <u> </u>	Lat:	-									
_	ion : Interior Alaska Mountains	Lat	62.7122599087 Long.: -147.442239977 Datum: WGS84									
	p Unit Name:	NWI classification: Upland										
Are V	Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are "Normal Circu											
	Hydrophytic Vegetation Present? Yes No	•)			· · · · · · · · · · · · · · · · · · ·							
	· · · · · · · · · · · · · · · · · · ·		Is	the Sam	npled Area							
	^ /		wi	thin a W	/etland? Yes ○ No •							
		ອ 										
Remarks: Slow, riverine VEGETATION - Use scientific names of plants. List all species in the plot. Absolute Dominant Indicator Dominance Test worksheet:												
	e Stratum	% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)							
1.			_		Total Number of Dominant							
2.			_		Species Across All Strata:6 (B)							
3.			_		Percent of dominant Species							
4.			_		That Are OBL, FACW, or FAC: 50.0% (A/B)							
5.		0	_		Prevalence Index worksheet:							
	Total Cove		- 0/ (T) 0	•	Total % Cover of: Multiply by:							
Sapl	ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species x 1 =							
1.	Salix alaxensis	15	✓	FAC	FACW Species 2 x 2 = 4							
2.	Salix barclayi	10		FAC	FAC Species <u>51.2</u> x 3 = <u>153.6</u>							
3.	Dasiphora fruticosa	20	_	FAC	FACU Species 14 x 4 = 56							
4.	Populus balsamifera	5	_	FACU	UPL Species <u>0.1</u> x 5 = <u>0.500</u>							
5.	Picea glauca	1	_	FACU	Column Totals: <u>67.3</u> (A) <u>214.1</u> (B)							
6.	Vaccinium uliginosum	1	_	FAC	Prevalence Index = B/A = 3.181							
7.	Salix pulchra	2	_	FACW	Trevalence index - B/A							
8.		0	_		Hydrophytic Vegetation Indicators:							
9.		0	_		☐ Dominance Test is > 50%							
10.	Rubus arcticus (IAM)	2		FACU	Prevalence Index is ≤3.0							
Herl	Total Cove b Stratum 50% of Total Cover: _		_ 0% of Total Cover	:11.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)							
1.	Chamerion angustifolium	2	_	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)							
2.	Aconitum delphinifolium	_ 1	_	FAC	¹ Indicators of hydric soil and wetland hydrology must							
3.	Calamagrostis canadensis	1	_	FAC	be present, unless disturbed or problematic.							
4.	Antennaria isolepis	0.1	_	UPL	Plot size (radius, or length x width)10m							
5.	Polemonium acutiflorum	0.1		FAC	% Cover of Wetland Bryophytes 0							
6.	Cornus canadensis	2		FACU	(Where applicable)							
7.	Chamerion latifolium	2	-	FAC	% Bare Ground <u>20</u>							
8.	Agrostis scabra		_	FAC	Total Cover of Bryophytes							
9.	Hedysarum alpinum			FACU								
10.	Astragalus alpinus	1	_	FAC	Hydrophytic							
	Total Cove 50% of Total Cover:			2.26	Vegetation Present? Yes ○ No ●							
	50% of Total Cover.	5.65 20	% of Total Cover:	2.26	Tresent.							
Rema	arks: Galium boreale, Parnassia palustris w 0.1 cov	er. Herbs o	continued on the	e bottom of	the shrub strata							

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SOIL Sampling Point: SW12_T40_08

Profile Descripti		the depth nee	eded to docume	nt the indicator or co	nfirm the ab		ators)				
(inches)	Color (mo	ist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-12	2.5Y	3/2	70		_			Sand	30% semiang-rounded gr-cobble		
-					-			-			
								-			
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix											
Hydric Soil I	ndicators:]	Indicators for Pr		4	oils:				
Histosol or	r Histel (A1)		Ĺ	Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder							
Histic Epip	edon (A2)		L	Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)		L	Alaska Redox \	With 2.5Y H	lue		Other (Explain in Remark	s)		
☐ Thick Dark	c Surface (A12))		30							
Alaska Gle	eyed (A13)			and an appropriat				nary indicator of wetland h	ydrology,		
Alaska Red	dox (A14)					•	•	COCIT			
Alaska Gle	eyed Pores (A15	5)		4 Give details of co	olor change	e in Remark	S				
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
no hydric soil ir	ndicators										
HYDROLO	GY										
Wetland Hyd	rology Indica	tors:						Secondary India	cators (two or more are required)		
Primary Indica	itors (any one i	s sufficient)						Water Stained Leaves (B9)			
Surface W	Vater (A1)			☐ Inundation V	isible on A	erial Imagei	ry (B7)	Drainage P	atterns (B10)		
High Wate	er Table (A2)			☐ Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)		
Saturation (A3)				Marl Deposits	s (B15)			Presence o	f Reduced Iron (C4)		
☐ Water Marks (B1)				Hydrogen Su	lfide Odor	(C1)		☐ Salt Depos	its (C5)		
Sediment Deposits (B2)				☐ Dry-Season \	Nater Table	e (C2)		Stunted or	Stressed Plants (D1)		
☐ Drift Deposits (B3)				Other (Explain	in in Rema	rks)		Geomorphi	c Position (D2)		
Algal Mat	or Crust (B4)							Shallow Aq	uitard (D3)		
☐ Iron Deposits (B5)								Microtopog	raphic Relief (D4)		
Surface S	oil Cracks (B6)							FAC-neutra	l Test (D5)		
Field Observa	ations:										
Surface Water	r Present?	Yes \bigcirc	No 💿	Depth (inche	es):						
Water Table F	Present?	Yes 🔾	No 💿	Depth (inche	·c).		Wetla	nd Hydrology Presen	t? Yes ○ No •		
Saturation Pre	esent?	_	_		•			,			
(includes capi		Yes O	No 🔍	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hydrology indicators											
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