WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project		Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 23-Jun-12				
Applic	ant/Owner: Alaska Energy Authority					Sampling Point: SW12_T10_05				
	gator(s): SLI, LMF	ee, hummocks etc.): Terrace								
	relief (concave, convex, none): none			Slope:		° Elevation: 219				
	,	Lot	_	· —						
	gion : Southcentral Alaska	Lai								
	ap Unit Name:				<u> </u>	NWI classification: Upland				
Are \	matic/hydrologic conditions on the site typical for this /egetation , Soil , or Hydrology , /egetation , Soil , or Hydrology MARY OF FINDINGS - Attach site map sho	significa naturall	antly y pro	disturbed? blematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No eded, explain any answers in Remarks.) s, transects, important features, etc.				
	Hydrophytic Vegetation Present? Yes No	•								
	Hydric Soil Present? Yes No		Is the Sampled Area							
	Wetland Hydrology Present? Yes No			within a Wetland? Yes ○ No •						
Rem	arks: site a mix of popbal, betneo, and picgla canopy									
	ETATION - Use scientific names of plants.	List all s	ute	cies in the Dominant Species?		Dominance Test worksheet: Number of Dominant Species				
1.	Betula neoalaskana		30 30	✓	FACU	That are OBL, FACW, or FAC: (A)				
2.	Para La balancifora		20	<u>~</u>	FACU	Total Number of Dominant				
3.	Dioca glauca		10		FACU	Species Across All Strata: 7 (B)				
4.			0		TACO	Percent of dominant Species That Are OBL, FACW, or FAC: 28.6% (A/B)				
5.			0							
	Total Cove		<u> </u>	_		Prevalence Index worksheet: Total % Cover of: Multiply by:				
Sai	oling/Shrub Stratum 50% of Total Cover:			of Total Cover:	12	0.00				
	Viburnum edule		40	✓	FACU					
2.	Alnus viridis		3		FAC	FAC Species 21 x 3 = 63 FACU Species 122 x 4 = 488				
3.	Ribes triste		3		FACU	UPL Species 0 x 5 = 0				
4. 5.	Rosa acicularis		<u></u>		FACU					
6.			<u> </u>			Column Totals: <u>143</u> (A) <u>551</u> (B)				
7.			0			Prevalence Index = B/A = 3.853				
8.			0	П		Hydrophytic Vegetation Indicators:				
9.			0			Dominance Test is > 50%				
10.			0			☐ Prevalence Index is ≤3.0				
	Total Cover		8 20% (% of Total Cover: 9.6		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)				
1.	Equisetum arvense	:	10	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)				
2.	Gymnocarpium dryopteris		7	✓	FACU	¹ Indicators of hydric soil and wetland hydrology must				
3.	Mertensia paniculata		5	✓	FACU	be present, unless disturbed or problematic.				
4.	Calamagrostis canadensis		5	✓	FAC	Plot size (radius, or length x width) 10m				
5.	Cornus canadensis		2		FACU	Plot size (radius, or length x width)				
6.	Trientalis europaea		2		FACU	(Where applicable)				
7.	Chamaenerion angustifolium		2		FACU	% Bare Ground65				
8.	Moehringia lateriflora		1		FACU	Total Cover of Bryophytes30				
9.	Galium boreale		1		FACU					
10.			0			Hydrophytic				
10.	Total Cause	er: 3!	5			Vegetation				
10.	Total Cove 50% of Total Cover:	175	20% ^	of Total Cover	7	Present? Yes O No •				

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SOIL Sampling Point: SW12_T10_05

		the depth ne	eded to docur	ment the indicator or co	onfirm the ab		ators)				
Depth (inches)	Color (moi	ist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks		
0-3					. —			Fibric Organics			
3-5	2.5Y	3/3						Loamy Sand	30% organic matter & roots		
5-18	10YR	3/3	100					Loamy Sand	30 / 0 3 gama messa. 1. 122.		
	1011							Loanly June			
¹Type: C=Cor	ncentration. D=	Depletion.	. RM=Reduc	ed Matrix ² Location				annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblematic	E Hydric So	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Cl	hange (TA	4)		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	-	•		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox \	Nith 2.5Y H	lue	L	Other (Explain in Remark	S)		
	c Surface (A12)			3 One indicator of	f bydrophyl	tic vegetatio	n one prir	mary indicator of wetland h	vdrology		
Alaska Gle	, , ,			and an appropriat	te landscar	ne position r	nust be pro	esent	ydrology,		
Alaska Red				4 Give details of co	olor chang	e in Remark	rc				
☐ Alaska Gle	eyed Pores (A15	·)		Give details of e	olor chang	c iii kemark					
Restrictive Laye	er (if present):										
Type:								Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):										
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	itors (any one is	s sufficient	<u>:)</u>					Water Stained Leaves (B9)			
Surface W	/ater (A1)			☐ Inundation V	/isible on A	erial Image	ry (B7)	Drainage Patterns (B10)			
High Wate	er Table (A2)			Sparsely Veg	jetated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposits	s (B15)				f Reduced Iron (C4)		
☐ Water Ma				Hydrogen Su				☐ Salt Depos			
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)		
Drift Depo				Other (Explain	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)								uitard (D3)		
☐ Iron Depo	. ,								raphic Relief (D4) Il Test (D5)		
Field Observa	oil Cracks (B6)							☐ FAC-fleutra	il Test (D3)		
Surface Water		Yes C	No ●	Depth (inche	ac).						
			No •	, ,	•		14/oddo	I IIII Drocon	t? Yes O No 💿		
Water Table P		_	_	Depth (inche	es):		Wetia	nd Hydrology Presen	t? yes ∪ No ⊕		
Saturation Pre (includes capil	llary fringe)		No •	Depth (inche							
Describe Recor	ded Data (strea	am gauge,	monitor we	ell, aerial photos, pre	vious inspe	ection) if ava	ailable:				
Remarks:											
no wetland hydrology indicators											

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