WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Denali Bo	orough Sampling Date: 06-Aug-12			
Applica	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW12_T16_05			
	gator(s): SLI, KMK	ce, hummocks etc.): Mountainslope						
	relief (concave, convex, none): flat	% / 32.8	· ·					
	gion : Interior Alaska Mountains	l at :	Slope:					
		Lat	03.420200190					
	ap Unit Name:		- 1/	No ○	NWI classification: Upland			
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐ MARY OF FINDINGS - Attach site map show	significantl naturally p wing sar	ly disturbed? roblematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No eded, explain any answers in Remarks.) Iormal Circumstances Present? Yes No No No Remarks.)			
	Hydrophytic Vegetation Present? Yes No No		ls	the Sam	pled Area			
	Hydric Soil Present? Yes No (within a Wetland? Yes ○ No ●					
Rem	Wetland Hydrology Present? Yes No ()	**	1 tillii a vv	Citatia: 135 III			
	ETATION - Use scientific names of plants. Li	st all spe	Dominant		Dominance Test worksheet: Number of Dominant Species			
1.		0	П		That are OBL, FACW, or FAC: 4 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 5 (B)			
3.					Percent of dominant Species			
4.		0			That Are OBL, FACW, or FAC: 80.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover	:			Total % Cover of: Multiply by:			
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	:0	OBL Species 6 x1 = 6			
1.	Alnus viridis	35	✓	FAC	FACW Species 15 x 2 = 30			
	Cnirona atayonii	-15		FACU	FAC Species 51 x 3 = 153			
3.	Vaccinium uliginosum	10		FAC	FACU Species 23.1 x 4 = 92.40			
4.	Linnaea borealis	2		FACU	UPL Species 0 x 5 = 0			
5.	Salix pulchra	15	✓	FACW	Column Totals: 95.1 (A) 281.4 (B)			
6.		^						
7.		0			Prevalence Index = B/A = 2.959			
8.		0			Hydrophytic Vegetation Indicators:			
9.		0			✓ Dominance Test is > 50%			
10.		0			✓ Prevalence Index is ≤3.0			
Hei	Total Cover 50% of Total Cover:			: <u>15.4</u>	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Calamagrostis canadensis	5	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Chamaenerion angustifolium			FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Cornus canadensis		. 📙	FACU	be present, unless disturbed or problematic.			
4.	Artemisia norvegica		. 📙	FACU	Plot size (radius, or length x width)			
5.	Carex magellanica			OBL	% Cover of Wetland Bryophytes			
6.	Festuca altaica	1	. 📙	FAC	(Where applicable)			
7.	Rumex occidentalis	-	. 📙	OBL FACU	% Bare Ground85			
8.	Rubus arcticus (IAM)		. 📙	FACU	Total Cover of Bryophytes			
9. 10.		0						
111	Total Cover				Hydrophytic Vegetation			
10.		10.1						
10.	50% of Total Cover:	9.05 20%	6 of Total Cover	3.62	Present? Yes No			

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SOIL Sampling Point: SW12_T16_05

Profile Description	,	the depth ne	eded to docun	nent the indicator or cor	nfirm the ab		cators)					
Depth (inches)							. 2	Texture	Remarks			
	Color (mo	ist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Hemic Organics				
0-4								-	w angular gravels			
4-10	7.5YR	3/3						Silt Loam	50% angular gravels and cobbles			
							-					
¹Type: C=Con	centration. D=	:Depletion.	RM=Reduce	ed Matrix ² Location	ı: PL=Por	e Lining. RO	C=Root Cha	annel. M=Matrix				
Hydric Soil In	dicators:			Indicators for Pro	oblemati	c Hydric S	oils:					
Histosol or				Alaska Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epipe	` '			Alaska Alpine s		•		Underlying Layer				
	Sulfide (A4)			☐ Alaska Redox W		-		Other (Explain in Remarks)				
l — · ·	Surface (A12)	1										
Alaska Gley								mary indicator of wetland h	ydrology,			
Alaska Red				and an appropriat	e landscap	e position i	must be pre	esent				
	ed Pores (A15	5)		4 Give details of co	olor chang	e in Remarl	ks					
-		·/					T					
Restrictive Laye	r (If present):											
Type:								Hydric Soil Present	? Yes ○ No •			
Depth (inch	es):											
HYDROLO	GY											
Wetland Hydr		tors:						Secondary Indi	cators (two or more are required)_			
Primary Indicat)						ned Leaves (B9)			
Surface W	ater (A1)			☐ Inundation Vi	isible on A	erial Image	ery (B7)	(B7) Drainage Patterns (B10)				
High Water Table (A2)				Sparsely Vegetated Concave Surface (B8)				Oxidized R	hizospheres along Living Roots (C3)			
Saturation (A3)				☐ Marl Deposits			. ,		f Reduced Iron (C4)			
☐ Water Mar	ks (B1)			Hydrogen Sulfide Odor (C1)				Salt Depos	its (C5)			
Sediment	Dry-Season V					Stressed Plants (D1)						
☐ Drift Depo	sits (B3)			Other (Explain				Geomorph	ic Position (D2)			
Algal Mat	or Crust (B4)					•		Shallow Ac	juitard (D3)			
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)			
Surface So	oil Cracks (B6)							✓ FAC-neutra				
Field Observa	tions:											
Surface Water	Present?	Yes \bigcirc	No 💿	Depth (inche	s):							
Water Table P	resent?	Yes 〇	No •	Depth (inche	٠)٠		Wetla	nd Hydrology Presen	t? Yes ○ No •			
				, ,	•				- 100 = 110			
Saturation Present? (Includes capillary fringe) Yes No Depth (inches):												
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:												
Remarks:												
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