WETLAND DETERMINATION DATA FORM - Alaska Region

۸ ا: <u>-</u>	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Denali Bo	orough Sampling Date: 04-Aug-13			
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T150_13			
	igator(s): SLI, EAC	side, terrac	de, terrace, hummocks etc.): Floodplain					
	relief (concave, convex, none): flat		Slope:					
Subre	gion: Interior Alaska Mountains	Lat.:	63.378200292	 27	Long.: -148.399247289 Datum: NAD83			
	ap Unit Name:		00.010200202		NWI classification: PSS1C			
	imatic/hydrologic conditions on the site typical for this tir	mo of voc	or? Yes	● No ○	(If no, explain in Remarks.)			
	· <u>-</u>	-	tly disturbed?		Iormal Circumstances" present? Yes No			
		-	problematic?		eded, explain any answers in Remarks.)			
	•							
SUM	MARY OF FINDINGS - Attach site map show		mpling point	locations	s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes ● No C		lo	the Com	upled Area			
	Hydric Soil Present? Yes ● No C		Is the Sampled Area within a Wetland? Yes ● No ○					
	Wetland Hydrology Present? Yes No)	W	itnin a w	etiand? Tes © No ©			
Rem	arks: floodplain of Nenana River							
VEG	ETATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.				
		Absolute			Dominance Test worksheet:			
Tre	ee Stratum	% Cove		Status	Number of Dominant Species			
1.		_ 0			That are OBL, FACW, or FAC: 4 (A)			
2.		0			Total Number of Dominant Species Across All Strata: 4 (B)			
3.		0			Percent of dominant Species			
4.		0	_ 🖳		That Are OBL, FACW, or FAC: 100.0% (A/B)			
5.		0			Prevalence Index worksheet:			
	Total Cover:	0	_		Total % Cover of: Multiply by:			
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species81 x 1 =81			
1.	Myrica gale	80	\checkmark	OBL	FACW Species <u>15</u> x 2 = <u>30</u>			
2.	Salix barclayi	35	✓	FAC	FAC Species60 x 3 =180			
3.								
_	Salix alaxensis	10	_	FAC	FACU Species 0 x 4 = 0			
4.	Salix alaxensis Salix pseudomonticola	10 10		FAC FAC	FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0			
	Saliv pagudamenticala	10						
4.	Salix pseudomonticola	10 15		FAC	UPL Species $0 \times 5 = 0$ Column Totals: $156 \times (A) \times 291 \times (B)$			
4. 5.	Salix pseudomonticola Salix pulchra	10 15		FAC	UPL Species 0 x 5 = 0			
4. 5. 6.	Salix pseudomonticola Salix pulchra	10 15 0 0		FAC	UPL Species $0 \times 5 = 0$ Column Totals: $156 \times (A) \times 291 \times (B)$ Prevalence Index = $B/A = 1.865$ Hydrophytic Vegetation Indicators:			
4. 5. 6. 7. 8. 9.	Salix pseudomonticola Salix pulchra	10 15 0 0 0		FAC	UPL Species 0 x 5 = 0 Column Totals: 156 (A) 291 (B) Prevalence Index = B/A = 1.865 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
4. 5. 6. 7. 8.	Salix pseudomonticola Salix pulchra	10 15 0 0 0 0		FAC	UPL Species $0 \times 5 = 0$ Column Totals: $156 \times 6 \times$			
4. 5. 6. 7. 8. 9.	Salix pseudomonticola Salix pulchra Total Cover:	10 15 0 0 0 0 0		FAC	UPL Species 0 $x = 0$ Column Totals: 156 A 291 B Prevalence Index = 1.865 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is 3.0 Morphological Adaptations (Provide supporting data in			
4. 5. 6. 7. 8. 9. 10. He	Salix pseudomonticola Salix pulchra Total Cover: 50% of Total Cover:	10 15 0 0 0 0 0 0 0 150 75	O% of Total Cover	FAC FACW	UPL Species 0 $x = 0$ Column Totals: 156 A 291 B Prevalence Index = 1.865 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is 3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
4. 5. 6. 7. 8. 9. 10.	Salix pseudomonticola Salix pulchra Total Cover: 50% of Total Cover: Calamagrostis canadensis	10 15 0 0 0 0 0 0 0 150 75 20	ow of Total Cover	FAC FACW	UPL Species $0 \times 5 = 0$ Column Totals: 156×6 Prevalence Index = B/A = 1.865 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation 1 (Explain)			
4. 5. 6. 7. 8. 9. 10. He 1.	Salix pseudomonticola Salix pulchra Total Cover: **Total Cover:** **Calamagrostis canadensis** Equisetum arvense **Compare as bath.**	10 15 0 0 0 0 0 0 150 75 20 2	O% of Total Cover	FAC FACW 30 FAC FAC	UPL Species 0 $x = 0$ Column Totals: 156 A 291 B Prevalence Index = 1.865 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is 3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
4. 5. 6. 7. 8. 9. 10. He 1. 2. 3.	Salix pseudomonticola Salix pulchra Total Cover: **rb Stratum** Calamagrostis canadensis Equisetum arvense Comarum palustre	10 15 0 0 0 0 0 0 150 75 20 2	ow of Total Cover	FAC FACW	UPL Species 0 x 5 = 0 Column Totals: 156 (A) 291 (B) Prevalence Index = B/A = 1.865 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0			
4. 5. 6. 7. 8. 9. 10. He 1. 2. 3. 4.	Salix pseudomonticola Salix pulchra Total Cover: 50% of Total Cover: Calamagrostis canadensis Equisetum arvense Comarum palustre	10 15 0 0 0 0 0 0 150 75 20 2 3 1	ow of Total Cover	FAC FACW 30 FAC FAC	UPL Species 0 x 5 = 0 Column Totals: 156 (A) 291 (B) Prevalence Index = B/A = 1.865 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m			
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SOIL Sampling Point: SW13 T150 13

Profile Descripti	cion: (Describe to t	the depth n	eeded to doc	ument the in-	dicator or con	firm the ab	sence of indiv	cators)			
Depth		Matrix				lox Featu					
(inches)	Color (moi		<u>%</u> _	Color (m	noist)	<u>%</u>	Type ¹	Loc 2	Texture	Remarks	
0-3	7.5YR	4/1							Fine Loamy Sand	-	
3-5	5YR	2.5/1							Fibric Organics	Buried organic horizon	
5-18	2.5Y	4/1		2.5YR	4/6	15	C	PL	Fine Loamy Sand	Layered depositional sediments w/redox fea	
					-						
¹Type: C=Cor	ncentration. D=	:Depletion	ı. RM=Redu						annel. M=Matrix		
Hydric Soil I	ndicators:						ic Hydric So	oils:	_		
Histosol or	r Histel (A1)				ska Color Cha		-	L	Alaska Gleyed Without H	lue 5Y or Redder	
Histic Epip	pedon (A2)				ska Alpine sv	•	•		Underlying Layer		
Hydrogen	Sulfide (A4)			✓ Alas	ska Redox W	/ith 2.5Y F	Hue		Other (Explain in Remarl	KS)	
Thick Dark	k Surface (A12)	,		3 Ono i	· -!:-stor of	· · ·	''	: - ana nrir	··· : : of wotland b		
Alaska Gle	eyed (A13)						tic vegetation in the position		mary indicator of wetland hesent	lydrology,	
Alaska Red	dox (A14)							•			
✓ Alaska Gle	eyed Pores (A15	<i>i</i>)		4 Give o	Jetails or co	lor change	ge in Remark	ks			
Restrictive Laye	er (if present):										
Type:	oi (p ,								Hydric Soil Present	:? Yes • No O	
Depth (inch	hes):								Hydric oon 1 1455.	.i 163 - 115 -	
Remarks:	1007.										
loamy sand as	in above layers										
HYDROLO	GY										
Wetland Hydi		tors:							Secondary Indi	icators (two or more are required)	
=	ators (any one is		ıt)							ined Leaves (B9)	
	Vater (A1)			In	undation Vi	sible on A	Aerial Image	-rv (B7)		Patterns (B10)	
	er Table (A2)						ncave Surfa	, , ,	_	Rhizospheres along Living Roots (C3)	
	Saturation (A3) Marl Dep						100.0	CC (2c,		of Reduced Iron (C4)	
Water Ma	` ,				ydrogen Sulf	. ,	· (C1)		☐ Salt Depos	` '	
	Deposits (B2)				ry-Season W				_	r Stressed Plants (D1)	
✓ Drift Depo	,				ther (Explain					nic Position (D2)	
	or Crust (B4)				1101 (=1,	1 111 1 1 2	.110)			quitard (D3)	
☐ Iron Depo										graphic Relief (D4)	
	Soil Cracks (B6)								✓ FAC-neutra		
Field Observa								\Box			
Surface Water		Yes C	○ No ●	D _f	epth (inches	s):					
Water Table P			O No ⊙		epth (inches	•		Wetla	nd Hydrology Presen	nt? Yes • No O	
Saturation Pre (includes capi		Yes C	No ●	Di	epth (inches	3):					
	rded Data (strea	am gauge	, monitor w	ell, aerial p	hotos, prev	ious inspe	ection) if av	ailable:			
Remarks:									_		
Remarks											

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