WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 01-Aug-12								
Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW12_T52_05								
Investi	gator(s): CTS, EKJ	lside, terrac	e, hummocks etc.): Footslope										
Local re	elief (concave, convex, none): convex		Slope:		2 ° Elevation: 699								
Subrea	ion : Interior Alaska Mountains	Lat.:	62.79089814		Long.: -148.529765737 Datum: NAD83								
_	p Unit Name:	Lut	02.73003014		NWI classification: Upland								
	·	*: £	0 Voo	● No ○									
	natic/hydrologic conditions on the site typical for this egetation $\ \Box$, Soil $\ \Box$, or Hydrology $\ \Box$	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○								
Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)													
Ale v	egetation, Soil, of Hydrology	naturally	problematic?	(it nee	ded, explain any answers in Remarks.)								
SUMN	MARY OF FINDINGS - Attach site map sh	owing sa	mpling poin	locations	s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes No	0	_										
	Hydric Soil Present? Yes ○ No	\odot		Is the Sampled Area within a Wetland? Yes ○ No ●									
	Wetland Hydrology Present? Yes ○ No	\odot	W										
Rema													
VEGE	TATION - Use scientific names of plants.	List all so	ecies in the	plot.									
		Absolut		Indicator	Dominance Test worksheet:								
Tree	e Stratum	% Cove		Status	Number of Dominant Species								
1.	Picea mariana	2		FACW	That are OBL, FACW, or FAC:3(A)								
2.		0			Total Number of Dominant Species Across All Strata: 3 (B)								
3.		_			Percent of dominant Species								
4.		0			That Are OBL, FACW, or FAC: 100.0% (A/B)								
5.		0			Prevalence Index worksheet:								
	Total Cov	er: <u> </u>	_		Total % Cover of: Multiply by:								
Sap	ling/Shrub Stratum 50% of Total Cover:	120	% of Total Cover	:0.4	OBL Species 0 x 1 = 0								
1.	Picea mariana	10		FACW	FACW Species 53 x 2 = 106								
	Vaccinium uliginosum			FAC	FAC Species 72 x 3 = 216								
	Vaccinium vitis-idaea			FAC	FACU Species0 x 4 =0								
4.	Rhododendron tomentosum		✓	FACW	UPL Species <u>0</u> x 5 = <u>0</u>								
5.	Betula nana	30	✓	FAC	Column Totals: <u>125</u> (A) <u>322</u> (B)								
6.	Empetrum nigrum	5		FAC									
7.	Salix pulchra	1		FACW	Prevalence Index = B/A = 2.576								
8.		0			Hydrophytic Vegetation Indicators:								
9.		0	_ 🖳		✓ Dominance Test is > 50%								
10.		0	_		✓ Prevalence Index is ≤3.0								
	Total Cov												
	o octatam	60.5)% of Total Cove		· · · · · · · · · · · · · · · · · · ·								
	- v		-	FAC									
			-										
			-		be present, unless disturbed of problematic.								
			-		Plot size (radius, or length x width)								
			-		% Cover of Wetland Bryophytes 10								
			- <u> </u>										
			- <u> </u>										
			- <u> </u>		Total Cover of bryophytes 10								
					Hydronhytic								
10.	Total Cove	er: 2	_		Vegetation								
			– % of Total Cover	: 0.4	Present? Yes • No O								
Dom	arke: Lichon dominated ananings (as asil surf)	in low see	h niemar tus	and saulti-	not considered deminante, as two and should be seen and								
10. Herl 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Total Cover: Carex bigelowii Total Cover: Total Cover: 50% of Total Cover:	0 er: 121 60.5 20 0 0 0 0 0 0 0 0 0 0 0 1 2 1 20	% of Total Cover	FAC	Prevalence Index is ≤3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) Cover of Wetland Bryophytes (Where applicable) Bare Ground Total Cover of Bryophytes 10 Hydrophytic Vegetation								

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SOIL Sampling Point: SW12_T52_05

		the depth n	eeded to docur	ment the indicator or co	nfirm the ab		cators)				
Depth (inches)	Color (mo	ist)		Color (moist)	%	Type ¹	Loc ²	- Texture	Remarks		
0-6	COIOI (IIIO	130)	100	Color (moise)	_/0_	Турс	LUC	Fibric Organics	7 roots		
6-9			100					Hemic Organics	5% roots		
-	10VD	2/2									
9-13	10YR	3/2	65					Loamy Sand	35% large semiangular cobbles to coarse s		
13-19	2.5Y	4/2	90					Loamy Sand	fine to coarse sand		
-											
-					-		-				
¹Type: C=Cor	ncentration. D=	=Depletion	. RM=Reduc	ed Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	annel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³				
Histosol or	r Histel (A1)			Alaska Color Cl	nange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	Hue		Other (Explain in Remark	rs)		
☐ Thick Dark	Surface (A12))		3.0	b				d de		
Alaska Gle	yed (A13)			and an appropriat	hydrophyl e landscar	ic vegetation in	on, one prin must be pre	mary indicator of wetland h esent	ydrology,		
Alaska Red	dox (A14)					·	•				
	eyed Pores (A15	5)		⁴ Give details of co	olor chang	е іп кетагк	KS				
Restrictive Laye	er (if present):								0 0		
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	tors (any one i	s sufficien	t)					Water Stained Leaves (B9)			
Surface Water (A1)				Inundation V	isible on A	erial Image	ry (B7)	_	atterns (B10)		
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
Saturation	. ,			Marl Deposit	s (B15)				f Reduced Iron (C4)		
Water Ma				☐ Hydrogen Su				Salt Depos			
	Deposits (B2)			☐ Dry-Season \					Stressed Plants (D1)		
	☐ Drift Deposits (B3) ☐ Other (Explain in Remarks)							_	ic Position (D2)		
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)									uitard (D3)		
	oil Cracks (B6)							FAC-neutra	raphic Relief (D4)		
Field Observa								▼ TAC-Heutra	ir rest (D3)		
Surface Water		Yes (No ●	Depth (inche	e).						
			No •	. ,	•		Wotla	nd Hydrology Presen	t? Yes ○ No •		
Water Table P		_	_	Depth (inche	:s):		Wella	ilu nyurology Preseli	tr res C NO G		
Saturation Present? (includes capillary fringe) Yes No •				Depth (inche	s):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											

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