WETLAND DETERMINATION DATA FORM - Alaska Region

	ite: Susitna-Watana Hydro	belectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Aug-15							
Applicant	:/Owner: Alaska Energy Au	ıthority				Sampling Point: SW15_T312_01							
nvestiga				Landform (hill	side. terrac	e, hummocks etc.): Shoulder slope							
_	ief (concave, convex, none):	concave		Slope: 4.0		, <u></u>							
	·	CONCAVE	Lat.:										
_	n : Cook Inlet Mountains		Lal										
	Unit Name:				<u> </u>	NWI classification: Upland							
	atic/hydrologic conditions on the		•		● No ○	(If no, explain in Remarks.)							
_	The regulation of the results of the												
Are Veg	getation \square , Soil \square	, or Hydrology	naturally	problematic?	(If nee	eded, explain any answers in Remarks.)							
SUMMA	ARY OF FINDINGS - At	tach site map sho	wing sa	mpling point	locations	s, transects, important features, etc.							
ы	ydrophytic Vegetation Preser	nt? Yes • No				·							
		Yes O No G	the Sam	pled Area									
	ydric Soil Present?	Yes O No	_		thin a W	etland? Yes ○ No •							
	/etland Hydrology Present?												
Remark	s: Shoulder of small rollover.	very gentie slope. Licr	nen rich										
/ECET	'ATION Has asiamtifia		سمالميد:										
ZEGET	ATION -Use scientific r	names of plants. L	ıst alı sp	ecies in the	piot.								
			Absolute			Dominance Test worksheet:							
	Stratum		% Cove	r Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)							
1						Total Number of Dominant							
2			0			Species Across All Strata:3 (B)							
3						Percent of dominant Species							
4. —			0			That Are OBL, FACW, or FAC: 100.0% (A/B)							
5		Total Cover	0	. \square		Prevalence Index worksheet:							
	(4)	Total Cover		_		Total % Cover of: Multiply by:							
Saplin	ng/Shrub Stratum	50% of Total Cover:	0 20	% of Total Cover:	0	OBL Species <u>0</u> x 1 = <u>0</u>							
1. <u>E</u>	Betula nana		20	~	FAC	FACW Species <u>16</u> x 2 = <u>32</u>							
2. <u>V</u>	/accinium uliginosum		20	_	FAC	FAC Species 62 x 3 = 186							
3. <u>F</u>	Rhododendron tomentosum		15		FACW	FACU Species 7.1 x 4 = 28.4							
	mpetrum nigrum		10	. 📙	FAC	UPL Species <u>1</u> x 5 = <u>5</u>							
	/accinium vitis-idaea			. 📙	FAC	Column Totals: <u>86.1</u> (A) <u>251.4</u> (B)							
6. <u>A</u>	arctous alpinus				FACU	Prevalence Index = B/A =2.920_							
	Betula glandulosa			. 님	FAC								
_	Salix pulchra		1		FACW	Hydrophytic Vegetation Indicators:							
_			0.1		FACU	✓ Dominance Test is > 50%							
10			0	. \square		✓ Prevalence Index is ≤3.0							
Horb (Ctratum	Total Cover 50% of Total Cover:			: 17.02	Morphological Adaptations (P ¹ ovide supporting data in Remarks or on a separate sheet)							
-	Stratum_					Problematic Hydrophytic Vegetation (Explain)							
_	Antennaria monocephala			-	UPL								
			_	- H		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)							
				- <u> </u>		, , ,							
				· _		% Bare Ground5							
						15th cover of bryophytes 40							
			0			Hydrophytic							
		Total Cover	r: 1	_		Vegetation							
				_									
		50% of Total Cover:	0.5 20	% of Total Cover:	0.2	Present? Yes No							

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SOIL Sampling Point: SW15_T312_01

Profile Descripti			needed to doo	cument the indicator or co			cators)						
Depth Matrix (inches) Color (moist)					Redox Feature				Remarks				
0-1	Color (mo	ist)	<u>%</u> 100%	Color (moist)	<u>%</u>	Type ¹	Loc_	Fibric organics	Nelliumo				
1-6			100%					Hemic organics					
					-								
6-9	7.5YR	2.5/2	100%					Silt Loam					
9-13	7.5YR	2.5/2	100%					Sandy Loam	with charcoal				
13-19	10YR	3/3	100%					Loam					
			-										
¹Type: C=Cor	Type: C=Concentration. D=Depletion. RM=Reduced Matrix Location: PL=Pore Lining. RC=Root Channel. M=Matrix												
Hydric Soil I	ndicators:			Indicators for Pr	oblemati	c Hydric S	oils: ³						
Histosol or	Histel (A1)			Alaska Color C	hange (TA	4) ⁴		Alaska Gleyed Without Hue 5Y or Redder					
Histic Epip	edon (A2)			Alaska Alpine swales (TA5) Underlying Layer									
Hydrogen	Sulfide (A4)			Alaska Redox \	Nith 2.5Y I	Hue		Other (Explain in Remark	rs)				
☐ Thick Dark	Surface (A12))		3.0	ole at a steel				d de				
Alaska Gle				and an appropria	nyaropnyi te landscar	tic vegetation i	on, one prin must be pre	nary indicator of wetland h esent	ydrology,				
Alaska Red	lox (A14)					-	•						
	yed Pores (A15	5)		⁴ Give details of o	olor chang	e in Remari	KS						
Restrictive Laye	er (if present):												
Type:								Hydric Soil Present	? Yes ○ No •				
Depth (inch	ies):												
HYDROLO	GY												
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)				
Primary Indica	tors (any one i	s sufficier	nt)					Water Stained Leaves (B9)					
Surface Water (A1)				Inundation V	isible on A	erial Image	ery (B7)	☐ Drainage Patterns (B10) ☐ Oxidized Rhizospheres along Living Roots (C3)					
High Water Table (A2)				Sparsely Veg	etated Cor	ncave Surfa	ce (B8)						
Saturation (A3)				Marl Deposit	s (B15)			Presence of Reduced Iron (C4)					
Water Mai				Hydrogen Su				Salt Depos					
	Deposits (B2)		☐ Dry-Season \		. ,			Stressed Plants (D1)					
☐ Drift Depo				U Other (Expla	in in Rema	rks)			ic Position (D2)				
	☐ Iron Deposits (B5)								uitard (D3)				
	oil Cracks (B6)							FAC-neutra	raphic Relief (D4)				
Field Observa								TAC-fleutra	ir rest (D3)				
Surface Water		Yes	O No ●	Depth (inche	·e).								
			No ●		•		Wotla	nd Hydrology Presen	t? Yes ○ No •				
Water Table P			_	Dopan (mone	es):		Wellai	ila nyarology Presen	tr res C NO G				
Saturation Pre (includes capil		Yes	○ No ●	Depth (inche	es):								
Describe Record	ded Data (stre	am gauge	e, monitor v	vell, aerial photos, pre	vious inspe	ection) if av	ailable:						
Remarks:													
No wetland hydrology indicators.													

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