WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydi	roelectric Project		Borough/City	/: Matanusk	a-Susitna Borough Sampling Date	:09-Jul-13
Applica	int/Owner: Alaska Energy A	uthority				Sampling Point:	SW13_T110_03
nvestig	gator(s): JER			Landform (hillside, terrac	e, hummocks etc.): Hillside	
ocal r	elief (concave, convex, none):	flat		Slope: 6	7.4 % / 34.0	O° Elevation: 1048	
Subrea	ion : Interior Alaska Mountair	ne	l at ·	62.765450	507		Datum: WGS84
_	p Unit Name:	15		02.700400	331		
	<u></u>			- V	es No	NWI classification: Upla	na
Are V	natic/hydrologic conditions on egetation , Soil egetation , Soil . MARY OF FINDINGS - A	, or Hydrology [significan naturally	itly disturbed'	? Are "N (If nee	(If no, explain in Remarks.) ormal Circumstances" present? Ye ded, explain any answers in Remarks s, transects, important features	,
	Hydrophytic Vegetation Prese	ent? Yes 💿	No O				
	Hydric Soil Present?	Yes 🔾	No 💿		Is the Sam		
	Wetland Hydrology Present?		No 💿		within a W	etland? Yes ○ No •	
	arks: steep Is hillside slcb, slc		ts. List all sp	oecies in th	ne plot.		
Ī			Absolut	e Dominar	nt Indicator	Dominance Test worksheet:	
Tree	e Stratum		% Cove			Number of Dominant Species That are OBL, FACW, or FAC:	Γ (Δ)
1.			0			Total Number of Dominant	(A)
2.			0			Species Across All Strata:	6(B)
3.			0			Percent of dominant Species	
4.			0			That Are OBL, FACW, or FAC:	83.3% (A/B)
5.			0	_		Prevalence Index worksheet:	
		Total (Cover:	_		Total % Cover of: Multip	ly by:
Sapl	ling/Shrub Stratum	50% of Total Cover	: 0 20	% of Total Cov	/er:0	OBL Species0 x 1 =	=0
1.	Picea mariana		2		FACW	FACW Species 37 x 2 =	= <u>74</u>
2.	Salix glauca				FAC	FAC Species <u>188</u> x 3 =	564_
3.	Betula nana		70	✓	FAC	FACU Species 27 x 4 =	108
4.	Vaccinium uliginosum		45	✓	FAC	UPL Species 0 x 5 =	= 0
5.	Spiraea stevenii		15		FACU	Column Totals: 252 (A)	746 (B)
6.	Vaccinium vitis-idaea		30		FAC		
7.	Ledum decumbens		35		FACW	Prevalence Index = B/A =	2.960
8.	Empetrum nigrum		25		FAC	Hydrophytic Vegetation Indicators:	
9.	Linnaea borealis		10	_	FACU	✓ Dominance Test is > 50%	
10.	Betula glandulosa		10		FAC	✓ Prevalence Index is ≤3.0	
-	<u>b Stratum</u>	Total (50% of Total Cove	r: <u>123.5</u> 20	0% of Total Co		Morphological Adaptations ¹ (Provid Remarks or on a separate sheet)	
	Calamagrostis canadensis				FAC	Problematic Hydrophytic Vegetation	
					FACU	¹ Indicators of hydric soil and wetland hydbe present, unless disturbed or problema	drology must
٠.			_		FAC	be present, unless disturbed of problettic	400
4.			•			Plot size (radius, or length x width)	_10m
_						% Cover of Wetland Bryophytes	
				- =		(Where applicable)	0
						% Bare Ground Total Cover of Bryonbytes	0
				- =		Total Cover of Bryophytes	_20
				- =		Hydronbytic	
10.		Total 0				Hydrophytic Vegetation	_
		50% of Total Cover			ver: <u>1</u>	Present? Yes • No)
Rema	arks: 1% Salix pulchra, 2% I						

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SOIL Sampling Point: SW13_T110_03

	Matrix	aca to accame	nt the indicator or co	dox Featu		cators)		
Depth ————————————————————————————————————	moist)	%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks
0-4		100			.,,,,		Fibric Organics	
4-19		80					cobbles and gravel	some org in the top cobbles. otherwise air.
				_				
¹ Type: C=Concentration	D=Depletion.	RM=Reduced	Matrix ² Locatio	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	-
Hydric Soil Indicators:]	Indicators for P	roblematic	Hydric S	oils: ³		
Histosol or Histel (A1)	[Alaska Color C		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)	•	[Alaska Alpine		-		Underlying Layer	
Hydrogen Sulfide (A4	1	Ī	Alaska Redox	-	-		Other (Explain in Remark	ks)
Thick Dark Surface (A	•							
Alaska Gleyed (A13)	112)						nary indicator of wetland h	nydrology,
Alaska Redox (A14)			and an appropria	ite landscap	e position i	must be pre	esent	
Alaska Gleyed Pores	A15)		4 Give details of o	color change	in Remark	(S		
Restrictive Layer (if preser	nt):							
Type:							Hydric Soil Present	? Yes O No 💿
Depth (inches):							•	
HYDROLOGY								
HYDROLOGY Wetland Hydrology Inc	icators:						Secondary Indi	cators (two or more are required)
								cators (two or more are required) ined Leaves (B9)
Wetland Hydrology Inc			☐ Inundation \	/isible on Ae	erial Image	ry (B7)	Water Stai	
Wetland Hydrology Inc	ne is sufficient)		☐ Inundation \		_		Water Stai	ined Leaves (B9)
Wetland Hydrology Inc Primary Indicators (any o	ne is sufficient)		☐ Inundation \ ☐ Sparsely Vec ☐ Marl Deposit	getated Con	_		Water Stai Drainage I Oxidized R	ned Leaves (B9) Patterns (B10)
Primary Indicators (any o Surface Water (A1) High Water Table (A	ne is sufficient)		Sparsely Veg	getated Con ts (B15)	cave Surfa		Water Stai Drainage I Oxidized R	Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4)
Primary Indicators (any o Primary Indicators (any o Surface Water (A1) High Water Table (A Saturation (A3)	ne is sufficient) 2)		Sparsely Veg Marl Deposit	getated Con ts (B15) ulfide Odor (cave Surfac		Water Stai Drainage I Oxidized R Presence C Salt Depos	Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4)
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Primary Indicators (any on Primary Indicators (a	ne is sufficient) 2) 32)		Sparsely Vec Marl Deposit Hydrogen St Dry-Season	getated Con ts (B15) ulfide Odor (Water Table	cave Surfac		Water Stai Drainage I Oxidized R Presence o Salt Depos Stunted or	rined Leaves (B9) Patterns (B10) Chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) Stressed Plants (D1)
Primary Indicators (any on Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	ne is sufficient) 2) 32)		Sparsely Vec Marl Deposit Hydrogen St Dry-Season	getated Con ts (B15) ulfide Odor (Water Table	cave Surfac		Water Stai Drainage I Oxidized R Presence o Salt Depos Stunted oi Geomorph Shallow Ao	Patterns (B10) chizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) - Stressed Plants (D1) ic Position (D2)
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