## WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hyd	roelectric Project		Boroug	h/City:	Matanusk	a-Susitna Borough Sampling Date: 31-Jul-12
Applica	ant/Owner: Alaska Energy A	uthority					Sampling Point: SW12_T46_06
Investi	gator(s): SLI KKM			_ Landfo	orm (hill	side, terrac	e, hummocks etc.): Hillside
Local	relief (concave, convex, none)	none		Slope	: 14.0	% / 8.0	Elevation: 891
Subre	gion : Interior Alaska Mountai	ns	Lat.	62.688	8479908	33	Long.:147.652979975
Soil Ma	ap Unit Name:						NWI classification: Upland
Are \	matic/hydrologic conditions on /egetation  , Soil	, or Hydrology	significa naturally wing sa	ntly distu problem	rbed? atic? point	(If nee	(If no, explain in Remarks.)  Iormal Circumstances" present? Yes  No  ded, explain any answers in Remarks.)  Iormal Circumstances Present? Yes  No  Iormal Circumstances Present? Yes  No  Iormal Circumstances Present? Yes  No  Iormal Circumstances Present? Yes  Iormal Circumstances Present Presen
	Hydric Soil Present?	Yes O No 🤄					pled Area
	Wetland Hydrology Present?	Yes O No 🤄	•		wi	thin a W	etland? Yes O No 💿
	narks: ETATION -Use scientific	names of plants. L				•	Dominance Test worksheet:
Tre	e Stratum		Absolu % Cov		ninant ecies?	Indicator Status	Number of Dominant Species
1.	Dicoa mariana		2	5	<b>V</b>	FACW	That are OBL, FACW, or FAC: 7 (A)
2.	Picea glauca			<u> </u>		FACU	Total Number of Dominant Species Across All Strata: 7 (B)
3.				<u> </u>			Percent of dominant Species
4.				)			That Are OBL, FACW, or FAC: 100.0% (A/B)
5.				)			Prevalence Index worksheet:
		Total Cover	r: 30				Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum	50% of Total Cover:	<u>15</u> 2	0% of Tota	al Cover:	6	OBL Species 0 x 1 = 0
1.	Picea mariana		1	0	<b>✓</b>	FACW	FACW Species 120 x 2 = 240
2.	Picea glauca			<del>-</del>	$\bar{\Box}$	FACU	FAC Species 46 x 3 = 138
3.	Salix pulchra				<u></u>	FACW	FACU Species 11 x 4 = 44
4.	Vaccinium uliginosum		1	0	<b>✓</b>	FAC	UPL Species0 _ x 5 =0
5.	Salix barclayi					FAC	Column Totals: <u>177</u> (A) <u>422</u> (B)
6.	Vaccinium vitis-idaea					FAC	
7.	Betula nana		į	5		FAC	Prevalence Index = B/A = 2.384
8.	Ledum decumbens		1	0	✓	FACW	Hydrophytic Vegetation Indicators:
9.	Salix alaxensis		3	3		FAC	✓ Dominance Test is > 50%
10.	Salix glauca			2		FAC	✓ Prevalence Index is ≤3.0
Her	rb Stratum	<b>Total Cover</b> 50% of Total Cover:		 20% of Tot	tal Cover	: 13.2	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1.	Petasites frigidus			5		FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Equisetum sylvaticum		2	0	<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Orthilia secunda			_		FACU	be present, unless disturbed or problematic.
4.				)			Plot size (radius, or length x width)
5.				5		FACW	% Cover of Wetland Bryophytes
6.				)			(Where applicable)
1 -				)			% Bare Ground
				)			Total Cover of Bryophytes
8.			(	)	$\square$		
8. 9.				`			
8. 9.			(	)			Hydrophytic
8. 9.		Total Cover	r: <u>81</u>	_	al Cover	16.2	Hydrophytic Vegetation Present?  Yes  No

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SOIL Sampling Point: SW12\_T46\_06

Depth	Ma	atrix		merre erre mie	licator or con <b>Red</b>	ox Featu				
, i ,	Color (moist	t)	%	Color (m	oist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2.5			100						Fibric Organics	
2.5-4.5			100						Hemic Organics	
4.5-5			100						Sapric Organics	
5-16	 10YR	4/2	80	10YR	3/6	15		PL	Silt Loam	5% gravel
									-	
Type: C=Concentr	ration. D=D	epletion.	RM=Reduc	ed Matrix	<sup>2</sup> Location	: PL=Pore	e Lining. RO	=Root Cha	annel. M=Matrix	, -
Hydric Soil Indica	itors:			Indicate	ors for Pro	blematic	: Hydric S	oils: <sup>3</sup>		
Histosol or Histo				_	ka Color Ch		4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon	. ,				ka Alpine sv		-		Underlying Layer	
Hydrogen Sulfid				Alasł	ka Redox W	/ith 2.5Y F	lue		Other (Explain in Remar	<b>(</b> S)
☐ Thick Dark Surf	` '									
Alaska Gleyed (	A13)						ic vegetation in position in the contraction of the		mary indicator of wetland h	nydrology,
Alaska Redox (A	A14)					•		•	esent	
Alaska Gleyed P	ores (A15)			<sup>4</sup> Give d	letails of co	lor change	e in Remark	(S		
Restrictive Layer (if p	present):									
Type:									Hydric Soil Present	? Yes ○ No •
Depth (inches): Remarks: no hydric soil indicat	ors									
Remarks:	ors									
Remarks: no hydric soil indicat										
Remarks: no hydric soil indicat  HYDROLOGY  Wetland Hydrolog	y Indicato									cators (two or more are required)
Remarks: no hydric soil indicate  HYDROLOGY  Wetland Hydrolog  Primary Indicators (	y Indicato								Water Stai	ned Leaves (B9)
Remarks: no hydric soil indicate  HYDROLOGY  Wetland Hydrolog  Primary Indicators (  Surface Water	y Indicato any one is : (A1)						erial Image		Water Stai	ned Leaves (B9) Patterns (B10)
HYDROLOGY Wetland Hydrolog Primary Indicators ( Surface Water	y Indicato any one is : (A1) ole (A2)			☐ Sp	arsely Vege	etated Cor	erial Image ncave Surfa		Water Stai Drainage I Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
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