WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project	Во	rough/City:	Matanusk	a-Susitna Borough Sampling Date: 05-Aug-12
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T34_10
	gator(s): SLI, KMK	L	andform (hill	side, terrace	e, hummocks etc.): Hillside
-	elief (concave, convex, none): flat		Slope: 8.7		
_	ion : Southcentral Alaska	Lat 6	2.894593245	01	
	p Unit Name:				NWI classification: PEM1/SS1B
Are V		significantly naturally pro	disturbed?	(If nee	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No			the Com	wlad Avec
	Hydric Soil Present? Yes ● No				pled Area etland? Yes ◉ No ◯
	Wetland Hydrology Present? Yes No		Wi	thin a W	etland? Tes © No C
Rema					
VEGE	TATION -Use scientific names of plants. L	<u> </u>			Dominance Test worksheet:
Tree	e Stratum	Absolute % Cover	Dominant Species?	Status	Number of Dominant Species
1.		0		-	That are OBL, FACW, or FAC:3(A)
2.		0			Total Number of Dominant Species Across All Strata: 3 (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	r: <u>0</u>			Total % Cover of: Multiply by:
Sapl	ing/Shrub Stratum 50% of Total Cover:	0 20% (of Total Cover:	0	001.0
					<u> </u>
	Salix reticulata	3		FAC	
	Salix pulchra		✓	FACW	
	Dasiphora fruticosa	15	✓	FAC	
	Empetrum nigrum			FAC	UPL Species <u>0</u> x 5 = <u>0</u>
	Vaccinium uliginosum	5		FAC	Column Totals: <u>116</u> (A) <u>217</u> (B)
6.					Prevalence Index = B/A =1.871_
7.					
8.					Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
Herl	Total Cover 50% of Total Cover:		of Total Cover	: 9.6	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Eurybia sibirica	5		FAC	Problematic Hydrophytic Vegetation (Explain)
2.	Swertia perennis	1		FACW	¹ Indicators of hydric soil and wetland hydrology must
3.	Sanguisorba canadensis	5		FACW	be present, unless disturbed or problematic.
4.	Trichophorum caespitosum	45	✓	OBL	Plot size (radius, or length x width) 10m
5.	Caltha leptosepala	2		OBL	Plot size (radius, or length x width) 10m Cover of Wetland Bryophytes
6.	Arnica ovata	0.1		FACW	(Where applicable)
7.	Carex rotundata	5		OBL	% Bare Ground2
8.	Carex scirpoidea	1		FACU	Total Cover of Bryophytes 30
9.	Anthoxanthum monticola ssp. alpinum	2		FACU	
10.	Carex aquatilis	2		OBL	Hydrophytic
	Total Cover				Vegetation
L	50% of Total Cover:	34.05 20% d	of Total Cover:	_13.62_	Present? Yes No
Rema	arks: tr arnica sp, thalictrum alpinum, acodel. Eursi	b is unknowr	composite.		

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SOIL Sampling Point: SW12_T34_10

Depth —	Matr		locument the indicator or c	dox Featu			_	
i .	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-4							Hemic Organics	P-
4-6 7	.5YR 4/-	100					Sapric Organics	
6-10							Sandy Loam	
10-12	.0YR 4/	5 100		_			Silt Loam	
							-	
							-	
Type: C=Concentr	ation. D=Dep	etion. RM=Re	duced Matrix ² Location	n: PL=Pore	Lining. RC	=Root Cha	nnel. M=Matrix	
Hydric Soil Indica			Indicators for P		_			
Histosol or Histo			Alaska Color (4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon	. ,		Alaska Alpine		-		Underlying Layer	
Hydrogen Sulfid			Alaska Redox	With 2.5Y H	lue	✓	Other (Explain in Remark	s)
Thick Dark Surfa	ace (A12)		_					
Alaska Gleyed (A13)		³ One indicator of and an appropria				nary indicator of wetland h	ydrology,
Alaska Redox (A	•		⁴ Give details of		•			
Alaska Gleyed P			- Give details of	color change	z III Neillain	.5		
estrictive Layer (if p	resent):							
Type:							Hydric Soil Present	? Yes ● No O
Depth (inches):								
emarks: igh chroma red soil	s do not meet	hydric soil inc	licators, however assur	ne hydric so	ils due to s	tanding wa	ter and hydrophytic vegeta	ation.
	s do not meet	hydric soil inc	licators, however assur	ne hydric so	ils due to s	tanding wa	ter and hydrophytic vegeta	ation.
igh chroma red soil			licators, however assur	ne hydric so	ils due to s	tanding wa	ter and hydrophytic vegeta	ation.
YDROLOGY Vetland Hydrolog	y Indicators	:	licators, however assur	ne hydric so	ils due to s	tanding wa	_Secondary Indi	cators (two or more are required)
YDROLOGY Vetland Hydrolog Frimary Indicators (y Indicators any one is suf	:					_Secondary Indi	cators (two or more are required) ned Leaves (B9)
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