WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	t/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	ca-Susitna Borough Sampling Date: 31-Jul-13
Applica	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T154_07
	gator(s): BAB		Landform (hil	side, terrac	ce, hummocks etc.): colluvial fan
	relief (concave, convex, none): tussocks		Slope:		3 ° Elevation: 115
	gion : Interior Alaska Mountains	lat: (· ——— 63.243991518		Long.: -148.397244605 Datum: NAD83
		Lut	33.243331310		
	ap Unit Name:			N₂ ○	NWI classification: Upland
Are \	/egetation ☐ , Soil ☐ , or Hydrology ☐	significantly naturally pr	disturbed?	Are "N (If nee	lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	wing sam	pling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No			41 0	uste di Auste
	Hydric Soil Present? Yes No				ıpled Area /etland? Yes ◯ No ◉
	Wetland Hydrology Present? Yes O No		W	ithin a W	retland? res O No O
	arks: Concave fan base and edge bordering a convex s			plot.	
		Absolute	Dominant		Dominance Test worksheet:
	e Stratum	% Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
1.					Total Number of Dominant
2.					Species Across All Strata: (B)
3.					Percent of dominant Species
4.					That Are OBL, FACW, or FAC: 100.0% (A/B)
5.	Tabel Course				Prevalence Index worksheet:
_	Total Cover Soling Shrub Stratum		of Total Cover		Total % Cover of: Multiply by:
Sap	oling/Shrub Stratum 50% of Total Cover:	0 20%	or rotal cover		OBL Species <u>3</u> x 1 = <u>3</u>
1.		0			FACW Species
2.	-	0			FAC Species 38.2 x 3 = 114.6
3.		0			FACU Species 1.1 x 4 = 4.400
4.					UPL Species <u>0.1</u> x 5 = <u>0.500</u>
5.					Column Totals: <u>46.4</u> (A) <u>130.5</u> (B)
6.					Prevalence Index = B/A = 2.813
7.					
8.					Hydrophytic Vegetation Indicators:
9.					✓ Dominance Test is > 50%
10.	Total Cover				✓ Prevalence Index is ≤3.0
Hei	b Stratum 50% of Total Cover:		of Total Cove	.: 0	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1.	Festuca altaica	30	✓	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Trisetum spicatum	3		FAC	Indicators of hydric soil and wetland hydrology must
3.	Sanguisorba canadensis	4		FACW	be present, unless disturbed or problematic.
4.	Carex bigelowii	5		FAC	Diet size (radius or length y width)
5.	Comarum palustre			OBL	Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes
6.	Artemisia norvegica	1		FACU	(Where applicable)
7.	Gentiana glauca	0.1		FAC	% Bare Ground
8.	Campanula lasiocarpa	0.1		UPL	Total Cover of Bryophytes
9.	Pyrola asarifolia	0.1		FACU	
10.	Carex podocarpa	0.1		FAC	Hydrophytic
		46.4			Vegetation
10.	Total Cover 50% of Total Cover:		of Total Cover	9.28	Present? Yes No

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SOIL Sampling Point: SW13_T154_07

			•		•	_ 1 .	. 2	Texture	Remarks
(inches)	Color (m	oist)	<u>%</u> 100	Color (moist)		Type ¹	Loc ²	Fibric Organics	Remarks
	10YR	3/2	100					Sand	gravel and cobbles
	10YR	2/2	100					Loamy Sand	high organic content and gravel and c
	10YR	4/3	100 —					Loamy Sand	gravel and cobbles
								Loamy Sand	_
15-20	10YR	3/3						Loanly Sand	gravel and cobbles
								-	_
								-	_
Type: C=Concent	ration. D	=Depletior		d Matrix ² Locatio	n: PL=Pore L	ining. RC=Ro	oot Chan	nnel. M=Matrix	_
Hydric Soil Indica		<u>'</u>		Indicators for P		_			
Histosol or Histo				Alaska Color C	4	.,		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipedon	. ,			Alaska Alpine				Underlying Layer	The ST ST Reduct.
Hydrogen Sulfic	. ,			Alaska Redox	With 2.5Y Hue	е		Other (Explain in Rema	arks)
Thick Dark Surf	face (A12	2)		30	e la calacida de la				III. I. I.
Alaska Gleyed ((A13)			and an appropria				ary indicator of wetland sent	i nyarology,
Alaska Redox (/	•			4 Give details of o	olor change in	n Remarks			
Alaska Gleyed F	•								
estrictive Layer (if	present)								
Type:								Hydric Soil Preser	nt? Yes 🔾 No 🖲
Depth (inches):								•	
Depth (inches): emarks: o hydric soil indicat	tors obse	rved						<u>.</u>	
emarks:	tors obse	rved							
emarks:	tors obse	rved							
emarks: o hydric soil indicat YDROLOGY Vetland Hydrolog	jy Indic	ators:						_Secondary Ir	dicators (two or more are required)
emarks: o hydric soil indicat YDROLOGY Vetland Hydrolog Primary Indicators (gy Indica (any one	ators:	ıt)					Water Si	ained Leaves (B9)
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