WETLAND D	ETERMINA	TION DAT	A FORM	- Alaska Region							
Project/Site: Susitna-Watana Hydroelectric Project	Bc	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 10-Jul-13							
Applicant/Owner: Alaska Energy Authority				Sampling Point:SW13_T135_07							
Investigator(s): JER	L	andform (hill	side, terrac	e, hummocks etc.): Flat							
Local relief (concave, convex, none):		Slope:	%/ 1.3	e Elevation: 101							
Subregion : Southcentral Alaska	Lat.: 6	2.892554878	9	Long.: -148.914700389 Datum: NAD83							
Soil Map Unit Name:				NWI classification: PSS4B							
Are climatic/hydrologic conditions on the site typical for this Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology SUMMARY OF FINDINGS - Attach site map sho	significantly naturally pro	disturbed? blematic?	(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 O No	•										
Hydria Sail Breacht2 Ves No Is the Sampled Area											
Hydric Soil Present? Yes No Instant Present Present? Yes No Wetland Hydrology Present? Yes No within a Wetland? Yes No											
Remarks: relief is soil covered rocky mounds and pits, dra		oils collapsing	j in pit								
VEGETATION - Use scientific names of plants. I	List all spec	cies in the Dominant	plot. Indicator	Dominance Test worksheet:							
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species							
1.	0			That are OBL, FACW, or FAC: <u>2</u> (A)							
2.	0			Total Number of Dominant Species Across All Strata: 4 (B)							
3.	0			Percent of dominant Species							
4.	0			That Are OBL, FACW, or FAC: 50.0% (A/B)							
5.	0			Prevalence Index worksheet:							
Total Cove	e r:			Total % Cover of: Multiply by:							
Sapling/Shrub Stratum 50% of Total Cover:	<u> 0 20% c</u>	of Total Cover:	0	OBL Species $1 \times 1 = 1$							
1. Empetrum nigrum	35	\checkmark	FAC	FACW Species 19 x 2 = 38							
2. Cassiope tetragona	10		FACU	FAC Species 59.1 x 3 = 177.3							
3. Salix rotundifolia	8		FAC	FACU Species x 4 =84							
4. Salix fuscescens	8		FACW	UPL Species 8.1 x 5 = 40.50							
5. Salix pulchra	5		FACW	Column Totals: 108.2 (A) 340.8 (B)							
6. Loiseleuria procumbens	5		FACU								
7. Rhododendron tomentosum	5		FACW	Prevalence Index = B/A = <u>3.150</u>							
8. Spiraea stevenii	3		FACU	Hydrophytic Vegetation Indicators:							
9. Betula nana	3		FAC	Dominance Test is > 50%							
10. Diapensia lapponica	2		FACU	Prevalence Index is ≤ 3.0							
Total Cove Herb Stratum 50% of Total Cover:	: 16.8	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)									
1. Carex bigelowii	12	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)							
2. Anthoxanthum monticola ssp. alpinum	5	\checkmark	UPL	¹ Indicators of hydric soil and wetland hydrology must							
3. Artemisia norvegica	2		FACU	be present, unless disturbed or problematic.							
4. Festuca altaica	1		FAC	Diataiza (radius, ar length y width)							
5. Eriophorum angustifolium	1		OBL	Plot size (radius, or length x width) <u>10m</u>							

FACW

FACU

UPL

FAC

UPL

4.84

1

1

1

0.1

0.1

_____24.2

50% of Total Cover: <u>12.1</u> 20% of Total Cover:

Total Cover:

Remarks: fruticose lichen 60, water 5, camlas 0.1, lyccla 1, fesalt 1, picgla 0.1, andpol 2, vaculi 3.

6. Carex membranacea

Huperzia selago

Arnica lessingii

Tofieldia coccinea

Anemone narcissiflora

7.

8.

9.

10.

2

15

Yes 🔘 No 🖲

% Cover of Wetland Bryophytes

(Where applicable)

Total Cover of Bryophytes

% Bare Ground

Hydrophytic Vegetation

Present?

	scription: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features							ators)			
Depth (inches) Color (moist)		st)	%	Color (moist)		<u>%</u> Type ¹		Loc 2	Texture	Remarks	
0-1		50,	100	Color (III	0.50)		1700	200	Fibric Organics		
1-15		4/1	85	7.5YR	4/6	15	с .	PL	Sandy Loam	lots of gravel	
				7.511	4/0						
·											
¹ Type: C=Con	centration. D=	Depletion.	RM=Reduce				-		nnel. M=Matrix		
Hydric Soil Ir	ndicators:			Indicate	ors for Pro	oblematio	Hydric So	oils: ³			
Histosol or	Histel (A1)			Alask	a Color Ch	ange (TA4	f)	\checkmark	Alaska Gleyed Without H	ue 5Y or Redder	
Histic Epipe	edon (A2)				a Alpine s	vales (TA5	5)	_	Underlying Layer		
Hydrogen S	Sulfide (A4)			Alask	a Redox W	/ith 2.5Y F	lue		Other (Explain in Remark	<s)< td=""></s)<>	
Thick Dark	Surface (A12)										
🗌 Alaska Gley	yed (A13)			³ One ir	dicator of	hydrophyt a landscar	ic vegetatio e position r	n, one prin	nary indicator of wetland h	nydrology,	
🖌 Alaska Red	lox (A14)						-	-	cocifi		
Alaska Gley	yed Pores (A15)		⁴ Give d	etails of co	lor change	e in Remark	S			
Restrictive Laye	r (if present):										
Type:									Hydric Soil Present	? Yes 🖲 No 🔾	
Depth (inch	es):										
Remarks:											
lots of frost boil	s. endded up d	ligging in o	ne otherwis	e would h	ave hit cob	bles.					
		55 5									
HYDROLO	GY										
Wetland Hydr	ology Indicat	tors:							Secondary Indi	cators (two or more are required)	
Primary Indicat	tors (any one is	sufficient)								ned Leaves (B9)	
Surface W	ater (A1)			🗌 Inu	Indation Vi	sible on A	erial Imager	ry (B7)	🗌 Drainage F	Patterns (B10)	
✓ High Water Table (A2)							✓ Oxidized R	hizospheres along Living Roots (C3)			
Saturation	(A3)			🗌 Ma	rl Deposits	(B15)			Presence o	of Reduced Iron (C4)	
🗌 Water Mar	⁻ ks (B1)			🗌 Hy	drogen Sul	fide Odor	(C1)		Salt Depos	sits (C5)	
	Deposits (B2)				/-Season W					Stressed Plants (D1)	
Drift Depo					ner (Explaii		. ,		_	ic Position (D2)	
·	or Crust (B4)				(F.a.		,			quitard (D3)	
Iron Depo									_	graphic Relief (D4)	
· · ·	oil Cracks (B6)									al Test (D5)	
Field Observa	. ,										
Surface Water	Present?	$_{\sf Yes}$ \bigcirc	No 🖲	De	pth (inche	5):					
Water Table P			No O		pth (inches			Wetla	nd Hydrology Presen	it? Yes 🖲 No 🔿	
Saturation Pre		Yes •									
(includes capil	lary fringe)			De	pth (inche	ы. т					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
i terraritar											