WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City: Matanuska-Susitna Borough Sampling Date: 26-Aug-15
Applicant/Owner: Alaska Energy Authority	Sampling Point: SW15_T347_06
Investigator(s): AFW	Landform (hillside, terrace, hummocks etc.): Mountainslope
Local relief (concave, convex, none): hummocky	Slope: 28.6 % / 16.0 ° Elevation:
Subregion : Interior Alaska Mountains Lat.:	Long.: Datum: WGS84
Soil Map Unit Name:	NWI classification: Upland
	ar? Yes ● No ○ (If no, explain in Remarks.) ntly disturbed? Are "Normal Circumstances" present? Yes ● No ○ problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sa	ampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ○ No ● Wetland Hydrology Present? Yes ○ No ●	Is the Sampled Area within a Wetland? Yes $^{\bigcirc}$ No $^{\textcircled{o}}$
Remarks:	
VEGETATION - Use scientific names of plants. List all sp	pecies in the plot.
Absolut Tree Stratum <u>% Cove</u>	

Tree Stratum			%	Cover	Species?	Status	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)		
1.			_						
2.							Total Number of Dominant Species Across All Strata: <u>2</u> (B)		
3.							Percent of dominant Species		
4.							That Are OBL, FACW, or FAC:(A/B)		
5.							Prevalence Index worksheet:		
		Total Cove	r: _	0			Total % Cover of: Multiply by:		
Sap	ling/Shrub Stratum	50% of Total Cover:	0	20%	of Total Cover:	0	OBL Species x 1 =		
1.	Vaccinium uliginosum			45	\checkmark	FAC	FACW Species <u>17</u> x 2 = <u>34</u>		
2.	Rhododendron tomentosum			15	\checkmark	FACW	FAC Species <u>73</u> x 3 = <u>219</u>		
3.	Vaccinium vitis-idaea			10		FAC	FACU Species <u>2.1</u> x 4 = <u>8.4</u>		
4.	Empetrum nigrum			5		FAC	UPL Species x 5 =10		
5.	Datula nana			5		FAC	Column Totals: <u>94.1</u> (A) <u>271.4</u> (B)		
6.	Soliv douco			3		FAC			
7.	Rosa acicularis			2		FACU	Prevalence Index = B/A = <u>2.884</u>		
8.	Salix pulchra			2		FACW	Hydrophytic Vegetation Indicators:		
9.	Diapensia lapponica			2		UPL	✓ Dominance Test is > 50%		
10.	Betula glandulosa		-	1		FAC	✓ Prevalence Index is \leq 3.0		
		Total Cove	r:	90			Morphological Adaptations (Provide supporting data in		
Herb Stratum 50% of Total Cover:			45	20% of Total Cover:		18	Remarks or on a separate sheet)		
1.	Carex bigelowii		_	3		FAC	Problematic Hydrophytic Vegetation (Explain)		
2.	Festuca altaica			1		FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Anthoxanthum monticola ssp. alpinum			0.1		UPL	be present, unless disturbed or problematic.		
4.			_	0			Plot size (radius, or length x width) 10m		
5.			_	0			% Cover of Wetland Bryophytes		
6.			_	0			(Where applicable)		
7.			_	0			% Bare Ground		
				0			Total Cover of Bryophytes 45		
9.			_	0					
			_	0			Hydrophytic		
Total Cover: <u>4.1</u> Vegetation									
50% of Total Cover: <u>2.05</u> 20% of Total Cover: <u>0.82</u> Present? Yes \bigcirc No \bigcirc									
Rem	Remarks: <5% total herb cover, thus no herb species considered dominant.								

	Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features									
(inches) Color (moist)		st)	%	Color (moist)	%	<u>% Туре ¹</u>		Texture	Remarks	
0-2			100				<u>Loc</u> ²	Hemic Organics		
2-17	10YR	3/2	100				-	Silt Loam	angular to semiangular gravel	
				p						
¹ Type: C=Co	ncentration. D=	Depletion.	RM=Reduc	ed Matrix ² Lo	cation: PL=Por	e Lining. R	C=Root Cha	annel. M=Matrix		
Hydric Soil I	ndicators:			Indicators f	or Problemati	c Hydric S	Soils: ³			
_	r Histel (A1)				lor Change (TA	4] Alaska Gleyed Without H	ue 5Y or Redder	
	pedon (A2)				oine swales (TA			Underlying Layer		
=	Sulfide (A4)				dox With 2.5Y I			Other (Explain in Remark	s)	
	sunde (A4) Surface (A12)									
Alaska Gle	. ,							mary indicator of wetland h	ydrology,	
Alaska Re				and an appro	opriate landscap	be position	must be pre	esent		
	eyed Pores (A15)		⁴ Give details	of color chang	e in Remar	ks			
Restrictive Lay										
Type:	er (ir present).							Hydric Soil Present	? Yes 🔿 No 🖲	
Depth (incl	nes).							Hyune Son Present		
Remarks:	diastara									
no hydric soil i	IUICALOIS									
HYDROLO	GY									
	rology Indicat	tors:						Secondary Indi	cators (two or more are required)	
	itors (any one is)						ned Leaves (B9)	
Surface V	Vater (A1)			Inundat	ion Visible on A	erial Image	ery (B7)		atterns (B10)	
🗌 High Wat	er Table (A2)			Sparsely	Vegetated Cor	ncave Surfa	ace (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturatio	n (A3)			Marl De	posits (B15)			Presence o	f Reduced Iron (C4)	
🗌 Water Ma	rks (B1)			Hydroge	en Sulfide Odor	(C1)		Salt Deposits (C5)		
Sediment	Deposits (B2)			Dry-Sea	son Water Tabl	e (C2)		Stunted or	Stressed Plants (D1)	
Drift Dep	osits (B3)			Other (B	Explain in Rema	rks)		Geomorphi	ic Position (D2)	
Algal Mat	or Crust (B4)							_	uitard (D3)	
Iron Depo	. ,								raphic Relief (D4)	
Surface S	oil Cracks (B6)							✓ FAC-neutra	l Test (D5)	
Field Observa	ations:									
Surface Wate	r Present?	-	No 🖲	Depth (inches):					
Water Table R	Present?	Yes \bigcirc	No 🖲	Depth (inches):		Wetla	nd Hydrology Presen	t? Yes 🔾 No 🖲	
Saturation Pre (includes capi		$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches):					
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:										
Remarks:										