WETLAND DETERMINATION DATA FORM - Alaska Region

	ct/Site: Susitna-Watana Hydroelectric Project	I	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 02-Jul-13
Applic	cant/Owner: Alaska Energy Authority				Sampling Point: SW13_T138_01
Invest	tigator(s): JER		Landform (hil	side, terrac	ce, hummocks etc.): Shoulder slope
	relief (concave, convex, none):		Slope: 7.0		O ° Elevation: 981
	egion : Southcentral Alaska	l at ·	- · · · · · · · · · · · · · · · · · · ·	_ —	Long.: -149.117337465 Datum: WGS84
	lap Unit Name:	Lut	02.03413220	<u> </u>	NWI classification: Upland
	· -	:	-0 Voo	● No ○	
	imatic/hydrologic conditions on the site typical for this ti Vegetation \Box , Soil \Box , or Hydrology \Box	•	r? res ly disturbed?		(If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○
		-	roblematic?		tormal olloumstances present:
					eded, explain any answers in Remarks.)
SUM	IMARY OF FINDINGS - Attach site map sho	wing sar	npling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No			41	
	Hydric Soil Present? Yes No				npled Area (atland? Yes ○ No ◉
	Wetland Hydrology Present? Yes O No (W	ithin a W	/etland? Yes ∪ No ♥
Rer	marks: alpine vaculi ds w patches castet, boulders at	surface			
110.	alpine vacuir us w pateries castet, boulders at	Surface			
VEG	ETATION -Use scientific names of plants. L	ist all sp	ecies in the	plot.	
		Absolute	Dominant	Indicator	Dominance Test worksheet:
Tre	ee Stratum	% Cover		Status	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
1.		0			Total Number of Dominant
2.		0	. \square		Species Across All Strata:5(B)
3.		0	. 📙		Percent of dominant Species
4.		0	. 📙		That Are OBL, FACW, or FAC: 80.0% (A/B)
5.		0	. 📙		Prevalence Index worksheet:
	Total Cover				Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	0 20%	6 of Total Cover	0	OBL Species
1.	Vaccinium uliginosum	30	✓	FAC	FACW Species 0 x 2 = 0
2.	Empetrum nigrum	10	✓	FAC	FAC Species <u>58</u> x 3 = <u>174</u>
3.	Arctostaphylos alpina	5	. 🖳	FACU	FACU Species 20 x 4 = 80
4.	Loiseleuria procumbens	5	. \square	FACU	UPL Species <u>0</u> x 5 = <u>0</u>
5.					
٥.			. 📙	FACU	Column Totals: <u>78</u> (A) <u>254</u> (B)
6.	Vaccinium vitis-idaea	3		FAC	
6. 7.	Vaccinium vitis-idaea Salix arctica			FACU	Prevalence Index = B/A = 3.256
6. 7. 8.	Vaccinium vitis-idaea Salix arctica Betula nana	3 3 3		FACU FACU	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators:
6. 7. 8. 9.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana	3 3 3 3		FAC FAC FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: Dominance Test is > 50%
6. 7. 8. 9.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana	3 3 3 3 3		FACU FACU	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% □ Prevalence Index is ≤3.0
6. 7. 8. 9.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana	3 3 3 3 3 3	of Total Cover	FAC FAC FAC FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: Dominance Test is > 50%
6. 7. 8. 9. 10.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Cover srb Stratum 50% of Total Cover:	3 3 3 3 3 3 70 35 20	% of Total Cove	FAC FAC FAC FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
6. 7. 8. 9.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Coverserb Stratum Carex bigelowii	3 3 3 3 3 3 70 35 20		FAC FAC FAC FAC FAC TAC FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6. 7. 8. 9. 10. He	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Covered Stratum Carex bigelowii	3 3 3 3 3 3 70 35 20	% of Total Cove	FAC FAC FAC FAC FAC FAC FAC FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
6. 7. 8. 9. 10. Hee 1. 2.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Cover erb Stratum Carex bigelowii Festuca altaica Anthoxanthum monticola ssp. alpinum	3 3 3 3 3 70 35 20 3 3 3	% of Total Cove	FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. 7. 8. 9. 10. He 1. 2. 3.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Cover Erb Stratum Carex bigelowii Festuca altaica Anthoxanthum monticola ssp. alpinum Pedicularis lapponica	3 3 3 3 3 70 35 20 3 3 2 0.1	% of Total Cove	FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m
6. 7. 8. 9. 10. He 1. 2. 3. 4. 5.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Cover Erb Stratum Carex bigelowii Festuca altaica Anthoxanthum monticola ssp. alpinum Pedicularis lapponica	3 3 3 3 3 70 35 20 3 3 2 0.1	% of Total Cove	FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. 7. 8. 9. 10. He 1. 2. 3. 4. 5. 6.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Cover Stratum Carex bigelowii Festuca altaica Anthoxanthum monticola ssp. alpinum Pedicularis lapponica	3 3 3 3 3 70 35 20 3 3 2 0.1	% of Total Cove	FAC	Prevalence Index = B/A =3.256_ Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes
6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Cover Soft of Total Cover: Carex bigelowii Festuca altaica Anthoxanthum monticola ssp. alpinum Pedicularis lapponica	3 3 3 3 3 70 35 20 3 3 2 0.1 0 0	% of Total Cove	FAC	Prevalence Index = B/A =3.256_ Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable)
6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Cover Erb Stratum Carex bigelowii Festuca altaica Anthoxanthum monticola ssp. alpinum Pedicularis lapponica	3 3 3 3 3 70 35 20' 3 3 2 0.1 0 0 0	% of Total Cove	FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 0
6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 9.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Cover Stratum Carex bigelowii Festuca altaica Anthoxanthum monticola ssp. alpinum Pedicularis lapponica	3 3 3 3 3 3 70 35 20 3 3 2 0.1 0 0 0 0	% of Total Cove	FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes Hydrophytic
6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 9.	Vaccinium vitis-idaea Salix arctica Betula nana Betula nana Betula nana Total Cover Som of Total Cover: Carex bigelowii Festuca altaica Anthoxanthum monticola ssp. alpinum Pedicularis lapponica	3 3 3 3 3 3 70 35 20 3 3 2 0.1 0 0 0 0 0	% of Total Cover	FAC	Prevalence Index = B/A = 3.256 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ☐ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground Total Cover of Bryophytes

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SOIL Sampling Point: SW13_T138_01

Donth	o the depth h	eeded to docume	nt the indicator or co	nfirm the abso		ators)		
Depth (inches) Color (n	noist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3 7.5YR	2.5/2	100	color (moist)		1,00		Silt Loam	few cobbles
3-9 7.5YR	3/3	100					Sandy Loam	few cobbles
								Tew Cobbies
9-19 2.5Y	4/2	100					Sandy Loam	
				-				
				-				
¹Type: C=Concentration. [D=Depletion						annel. M=Matrix	
Hydric Soil Indicators:		;	Indicators for Pr	oblematic	Hydric So	oils: ³		
Histosol or Histel (A1)		[Alaska Color Cl	nange (TA4)) 4		Alaska Gleyed Without H	ue 5Y or Redder
Histic Epipedon (A2)		[Alaska Alpine s	wales (TA5))		Underlying Layer	
Hydrogen Sulfide (A4)		[Alaska Redox V	Vith 2.5Y H	ue		Other (Explain in Remark	s)
☐ Thick Dark Surface (A1	2)		_					
Alaska Gleyed (A13)			³ One indicator of and an appropriat	hydrophytic	c vegetation	n, one prin	mary indicator of wetland h	ydrology,
Alaska Redox (A14)			ана ан арргорна	e iailuscape	e position ii	nust be pre	esent	
Alaska Gleyed Pores (A	15)		4 Give details of co	olor change	in Remark	S		
Restrictive Layer (if present):							
Type:							Hydric Soil Present	? Yes O No 💿
Depth (inches):								
HYDROLOGY								
HYDROLOGY Wetland Hydrology India	cators:						Secondary Indi	cators (two or more are required)
		t)						cators (two or more are required)_ ned Leaves (B9)
Wetland Hydrology India		t)	Inundation V	isible on Ae	rial Imager	y (B7)	Water Stain Drainage P	ned Leaves (B9) Patterns (B10)
Wetland Hydrology Indic	e is sufficien	t)	☐ Inundation V ☐ Sparsely Veg		_		Water Stain Drainage P Oxidized R	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3)
Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3)	e is sufficien	t)		etated Cond	_		Water Stain Drainage F Oxidized R Presence of	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4)
Wetland Hydrology India Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	e is sufficien	t)	Sparsely Veg Marl Deposits Hydrogen Su	etated Cond s (B15) Ifide Odor (cave Surfac		Water Stail Drainage P Oxidized R Presence o Salt Depos	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5)
Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	e is sufficien	t)	Sparsely Veg Marl Deposits Hydrogen Su Dry-Season V	etated Cond s (B15) Ifide Odor (Water Table	cave Surfac C1) (C2)		Water Stain Drainage P Oxidized R Presence o Salt Depos Stunted or	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5) Stressed Plants (D1)
Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	e is sufficien	t)	Sparsely Veg Marl Deposits Hydrogen Su	etated Cond s (B15) Ifide Odor (Water Table	cave Surfac C1) (C2)		Water Stain Drainage F Oxidized R Presence o Salt Depos Stunted or Geomorphi	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) hits (C5) Stressed Plants (D1) hic Position (D2)
Wetland Hydrology India Primary Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	e is sufficien	t)	Sparsely Veg Marl Deposits Hydrogen Su Dry-Season V	etated Cond s (B15) Ifide Odor (Water Table	cave Surfac C1) (C2)		Water Stain Drainage P Oxidized R Presence of Salt Depos Stunted or Geomorphi Shallow Ag	ned Leaves (B9) Patterns (B10) hizospheres along Living Roots (C3) of Reduced Iron (C4) its (C5) Stressed Plants (D1) ic Position (D2) quitard (D3)
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