WETLAND DETERMINATION DATA FORM - Alaska Region

Applicative Sampling Point WH3_T125_03 meetsplate(s): SLI_SCB Landform (Millsde, terrace, hummodis etc.): Hillsde call relif (concess, concex, co	Project/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Jul-13
nvestigator(s): <u>ELL SCB</u> Local relia (concave, convex, none): <u>concave</u> Slope <u>%</u> / 3.9 [*] Elevator: <u>530</u> Local relia (concave, convex, none): <u>concave</u> Slope <u>%</u> / 3.9 [*] Elevator: <u>530</u> Local relia (concave, convex, none): <u>concave</u> Slope <u>%</u> / 3.9 [*] Elevator: <u>530</u> Slope <u>%</u> / 3.9 [*] Elevator: <u>530</u> NW classification: <u>PSSVE</u> Ves Concave, <u>and vestore</u> Ves Concav	Applicant/Owner: Alaska Energy Authority				Sampling Point: SW13_T125_03
Local relief (concave, corvex, none): Oncave Stope: %/ 3.9 Elevation: 533 Subregion: Souther joint Lot: 62.88648207 Long: -148.623006611 Datum: MADB3 We dimatch visiting contains on the site hypical for this time of year? Yes No Are Normal Circumstance's prearts? Yes © No Are Normal Circumstance's prearts? Yes © No Are Normal Circumstance's prearts. State of the state of the state of year? Yes © No Are Normal Circumstance's prearts. State of the state of the state of year? Yes © No Are Normal Circumstance's prearts. Are Normal Circumstance's prearts. Yes © No Are State of the state of t	Investigator(s): SLI. SCB		Landform (hil	lside, terrac	e, hummocks etc.): Hillside
Subregion : Southeentral Alaska Lat: 62.938548207 Long:: -149.623906611 Datum: MAD83 Soli Mop Unit Name: WW classifications: WW classifications: WW classifications: WW classification: WW classification: PSS1E Are Vegetation . Soli . or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Mydrophylic Vegetation Present? Yes No Is the Sampled Area within a Welland? Yes No Hydrophylic Vegetation Present? Yes No Is the Sampled Area within a Welland? Yes No Weeting Hydroporpresent? Yes No Is the Sampled Area within a Welland? Yes No Tere Stratum Micro core Sacture Facult Pointmart Species Test worksheet: 1. Edula neoalastana 1 FACU Facult Pointmart Species Sacture Number of Dominant Species Number of Dominant Species Number of Dominant Species Sacture Sacture Sactur	Local relief (concave, convex, none): concave		Slope:	%/ 3.9	9° Elevation: 530
Sal Map Unit Name: WW classification: PSS1E Vec elimitaric/ydrologic conditions on the site typical for this time of year? Yes @ No (fine, explain in Remarks) Are Vegetation , Soil , or Hydrology apinficantly problematic? We now clockenstrances' present? Yes @ No (fine, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegatation Present? Yes @ No (fine, explaint any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegatation Present? Yes @ No (fine, explaint any answers in Remarks.) Zemarks add editorage signe, escapprings wurning water interspresed widy, tree supporting hummacks, solis/hydro characterize low points, veg data characterizing slope as a whole. The Estratum Asolitis Decision Total Cover: 0 Tree stratum Yes @ No (final Cover: 0 Total Voise scientific names of plants. List all species in the plot. Tree stratum Yes @ No (final Cover: 0 Spring Shrue Total Cover: 0 Prevalence tam solutions and species Trata of One-mark Species (final Wilphy by; Otal Cover: 0 Spring Shrue Stratum Stratu Cover: 120K of Total Cover: 0 Spring Shrue Stratum Strate Cover: 120K of Total Cover: 120K of Total Cover: 120K	Subregion : Southcentral Alaska	Lat.:	62.93854820	 7	Long.: -149.623906611 Datum: NAD83
Ve climatic/tytologic conditions on the site typical for this time of year? Yes ● No ○ (ff no, explain in Remarks.) Are Vegetation □ Soil □ , or Hydrology □ significantly disturbed? Are Normal Circumstance? present? Yes ● No ○ Are Vegetation Present? Yes ● No ○ Hydrophytic Vegetation Present? Yes ● No ○ Remarks: alder discharge sope. seeps/springs w running water interspersed w dry, tree supporting hummocks. solis/hydro characterize low points, veg data characterizing slope as a whole. FEGETATION - Use scientific names of plants. List all species in the plot. Tree stratum Absolute Dominant Indicator Strate Science Trate Worksheet: Tree stratum Absolute Dominant Species 3. 0 0 4. 0 0 5. 0 0 6. 0 0 7. 0 0 7. 0 0 7. 0 0 7. 0 0 7. 0 0 7. 0 0 <tr< td=""><td>Soil Man Unit Name:</td><td></td><td></td><td></td><td>NWI classification: DSS1E</td></tr<>	Soil Man Unit Name:				NWI classification: DSS1E
We contain by doing in the site place in the of year (III to Expan III Networksheet) Are Vegatation Soll or Hydrology naturally problematic? (III needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transacts, important features, etc. Hydrolytic Vegatation Present? Yes ● No Hydrophytic Vegatation Present? Yes ● No Is the Sampled Area within a Wetland? Yes ● No Remarks: alder distange slope, seepSyprings w unning water interspersed w dry, tree-supporting hummoks, solis/hydro characterize low points, veg data characterizing slope as a whole. Immediate the plot. FEGETATION - Use scientific names of plants. List all species in the plot. Number of Dominant Species Immediate Test worksheet: 1 Betula necolaskana 1 FACU Preventer of commant Species Immediate Test worksheet: 1 Betula necolaskana 1 FACU FACU Preventer of commant Species Total Monter of Dominant Species 3 0 1 FACU FACU Preventer of additionants of the species No (AB) 4 0 1 FACU FACU FACU FACU FACU Preventer of additionants (AB) FACU FACU FACU FACU	Are elimatic/bydrologic conditions on the site typical for this ti	mo of vor	or? Ves		(If no, ovalgin in Pomarka)
Active settion Soil	Are Vegetation Soil or Hydrology	rine Oryea	tly disturbed?		(1110, explain in Remarks.)
Note	Are Vegetation Soil or Hydrology	naturally	nrohlematic?	/If nee	aded explain any answers in Remarks)
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes ● No Is the Sampled Area within a Wetland? Yes ● No Wetland Hydrology Present? Yes ● No Wetland Hydrology Present? Yes ● No Colspan="2">Is the Sampled Area within a Wetland? Yes ● No Wetland Hydrology Present? Yes ● No VECETATION - Use scientific names of plants. List all species in the plot. Tree Stratum Contract Yes Worksheet: No Dominant Indicator Status Indicate result in the Plot. Tree Stratum Contract Yes Worksheet: No Dominant Indicator Status 1 FACU FACU Face Areas Al Strata: 2 (B) 2 Prese ageuca 0 Image: Areas Al Strata: 2 (B) 3 0 Image: Areas Al Strata: 2 (B) Prevalence Index Worksheet: Total Worksheet: <td></td> <td></td> <td></td> <td></td> <td></td>					
Hydrophytic Vegetation Present? Yes ● No ○ Is the Sampled Area Wetland Hydrology Present? Yes ● No ○ within a Wetland? Yes ● No ○ Rematics: alder discharge slope. seeps/springs wrunning water interspersed w dry, tree-supporting hummocks. solis/hydro characterize low points, veg data characterizing slope as a whole. Dominance Test worksheet: Image: Stratum Absolute Dominant Indicator % Secies? Dominance Test worksheet: Mumber of Dominant Species 1. Betula neoalaskana 1 FACU Forea glauce 1 (A) 2. Prece glauce 1 FACU Total Number of Dominant Species 1 (A) 3. 0 0 0 Fracu Precent of dominant Species 1 (A) 4. 0 0 Fracu Fracu Precent of dominant Species 1 (A) 5. 0 0 Fracu Fracu Fracu Species 2	SUMMARY OF FINDINGS - Attach site map show	wing sa	mpling point	locations	s, transects, important features, etc.
Hydric Sol Present? Yes ● No ○ Within a Wetland? Yes ● No ○ Remarks: alder discharge slope. seeps/springs w running water interspersed w dry, tree-supporting hummocks. solis/hydro characterize low points, veg data characterizing slope as a whole. Permarks: alder discharge slope. seeps/springs w running water interspersed w dry, tree-supporting hummocks. solis/hydro characterize low points, veg data characterizing slope as a whole. VEGETATION - Use scientific names of plants. List all species in the plot. Terme Stratum 1 Betula neoalaskana 1 FRAU 2. Picea glauca 1 FRAU 3. 0 1 FRAU 4. 0 1 FRAU 5. 0 1 FRAU 7. 1 FRAU FRAU 8. 0 1 FRAU 9. 0 1 FRAU 1. Anus windie 1	Hydrophytic Vegetation Present? Yes • No)	le	the Sam	nled Area
Weiland Hydrology Present? Yes @ No () Within a vectalitit Yes (*) No () Remarks: adder discharge slope, seeps/springs wurning water interspersed w dry, tree-supporting hummocks. solis/hydro characterize low points, veg data characterizing slope as a whole. Image: Second State Stat	Hydric Soil Present? Yes 🔍 No 🔾)	13	ithin a W	V_{otland} Yes \bigcirc No \bigcirc
Remarks: alder discharge slope. seepssprings w running water interspersed w dry, tree-supporting hummocks. solis/hydro characterize low points, veg VEGETATION - Use scientific names of plants. List all species in the plot. Dominant Indicator 1 Betula neoalaskana 1 FACU 2. Picea glauca 1 FACU 3. 0 - FACU 4. 0 - FACU 5. - 0 - 6. 0 - - 7. Total Cover: 2. - 2. Sprinze stevenii 7 FACU 3. Sorbus scopulina 0.1 FACU 3. Sorbus scopulina 0.1 FACU 3. 0 - - 4. Ribes glandulosum 0.1 FACU 5. 0 - - 6. 0 - - 7. 0 - - 8. 0 - - 9. 0 - - 1.	Wetland Hydrology Present? Yes • No C)	VV		
Use cleartific names of plants. List all species in the plot. Ominance Test worksheet: Number of Dominant Species Species 2 Status 9. Image: Species 2 Status 9. Dominant 1 Indicator 9	Remarks: alder discharge slope. seeps/springs w running w	ater inter	spersed w dry,	tree-suppor	rting hummocks. soils/hydro characterize low points, veg
ZeGETATION - Use scientific names of plants. List all species in the plot. Dominant indicator % Cover Dominant indicator Status Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 1 and Species Arross All Strata 1 (A) 2. Picea glauca 1 6 FACU Percent of dominant Species That are OBL, FACW, or FAC: 1 and worksheet: (A) 3. 0 6 6 7 (A) 5. 0 7 FACU FACU Species 0 ×1 = 0 1. Alnus viridis 80 7 FACU FACU Species 0 ×1 = 0 3. Sorbus scopulna 0.1 FACU FACU Species 0 ×1 = 0 4. Ribes glandulosum 0.1 FACU FACU Species 0 ×5 = 0 5. 0 7 FACU FACU Species 0 ×5 = 0 6. 0 7 FACU FACU Species 0 ×5 = 0 7. 0 7 FACU Prevalence Index s E3.3 ×3 = 249.9 8. 0 7 FACU FACU Species 0 ×5 = 0 9. 0 7 FACU FACU Species 0 ×5 = 0 8. 0	data characterizing slope as a whole.				
JEGETATION - Use scientific names of plants. List all species in the plot. Dominant Indicators I Betula neoalaskana 1 Prove statum Number of Dominant Species 1. Betula neoalaskana 1 FACU FACU FACU Total Number of Dominant Species That Are DBL, FACW, or FAC:					
Absolute Dominant Tradicator Yee Stratum Yee Seelss? Status 1 Betula neoalaskana 1 FACU 2 Picea glauca 1 FACU Total Number of Dominant Species 3 0 0 Prevalence Index worksheet: 2 (b) 4 0 Prevalence Index worksheet: 2 (b) 5 0 Prevalence Index worksheet: 7 FACU Prevalence Index worksheet: 1 Alnus viridis 80 V FAC Prevalence Index worksheet: 7 1 Alnus viridis 7 FACU FACU Species 2. x2 = 4 4 1 Alnus viridis 80 V FAC FACU Species 2. x2 = 4 4 1 Alnus viridis 0 0 FACU Species 2. x4 = 112.8 12.9 3 Sorbus scopulina 0.1 FACU FACU Species 2. x4 = 12.8 12.8 6 0 0 Column Totals: 13.5 AS 5.0 2.0 10 10 10.8 12.5 10	VEGETATION - Use scientific names of plants. Li	st all sp	ecies in the	plot.	
Tree Stratum 96 Cover Secies? Status Number of Dominant species 1. Betula necolaskana 1 FACU Total cover: 1 (A) 2. Picea glauca 0 1 FACU Total mode of Dominant Species 3. 0 0 Percent of dominant Species 2 (B) 5. 0 0 Percent of dominant Species 500.9% (AB) 5. 0 0 Percent of dominant Species 500.9% (AB) 5. 0 0 Percent of dominant Species 500.9% (AB) 7 FACU Total Cover:		Absolute	e Dominant	Indicator	Dominance Test worksheet:
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2. Picea glauca 1	1. Betula neoalaskana	1		FACU	Total Number of Dominant
3. 0 0 0 0 0 0 1 5. 0 0 0 0 0 1 Total Yeo OBL, FACW, or FAC: 50.0% (AB) 5. 0 <td< td=""><td>2. Picea glauca</td><td>1</td><td>_</td><td>FACU</td><td>Species Across All Strata: <u>2</u> (B)</td></td<>	2. Picea glauca	1	_	FACU	Species Across All Strata: <u>2</u> (B)
4. 0 0 0 0 5. 0 0 0 0 Total Cover: 2. Sapling/Shrub Stratum 50% of Total Cover: 1 20% of Total Cover: 0.4 0 0 1. Alnus viridis 80 \overrightarrow{PRC} FAC FAC Spriaes a stevenii 7 \overrightarrow{FAC} 2. Sprinaes a stevenii 7 \overrightarrow{FAC} FAC Uspecies 0.3. \overrightarrow{AL} FAC Uspecies 0.3. \overrightarrow{AL}	3	0			Percent of dominant Species
5. 0 Prevalence Index worksheet: Sapling/Shrub Stratum 50% of Total Cover: 2 1. Alnus viridis 80 FAC 2. Spiraea stevenii 7 FACU 3. Sorbus scopulina 0.1 FAC 4. Ribes glandulosum 0.1 FAC 5. 0 V FAC 7. 0 FAC VACW Species 8. 0 FAC VACW Species 7. 0 FAC VP column Totals: 10. 0 Prevalence Index worksheet: VACW Species 7. 6 O Prevalence Index worksheet: VACW Species 8. 0 O Prevalence Index worksheet: VACW Species 9. O O Prevalence Index worksheet: VACW Species 9. O O Prevalence Index worksheet: VACW Species 10. Total Cover: 87.4 O VACW Species 2.2 A 11. Dropoteris expansa 15 FACU Prevalence Index sof shotic soin soi	4	0	- 📙		That Are OBL, FACW, or FAC:(A/B)
Total Cover:Total % Cover of:Multiply by:Sapling/Shrub Stratum50% of Total Cover:120% of Total Cover:0.4Total % Cover of:Multiply by:1. Alnus viridis80 \checkmark FACFACUVFACUVFACUFACW Species2x 2 =42. Spiraea stevenii7FACUFACUFACU Species83.3x 3 =249.9FACU Species0x 5 =03. Sorbus scopulina0.1FACFACUVPL Species0x 5 =0Column Totals:112.84. Ribes glandulosum0.1FACOPrevalence Index = B/A =3.231366.7(B)6.00Prevalence Index = B/A =3.23132.31366.7(B)7.00Prevalence Index is \$3.0Prevalence Index is \$3.0Prevalence Index is \$3.08.00Prevalence Index is \$3.0Prevalence Index is \$3.0Prevalence Index is \$3.01. Dryopteris expansa15FACUProblematic Hydrophytic Vegetation 1 (Explain)2. Streptopus amplexifolus2FACUPoblematic Hydrophytic vegetation 1 (Explain)3. Viola palustris2FACUPoblematic Hydrophytic vegetation 1 (Explain)3. Viola palustris1FACUYes emersent, unless disturbed or problematic.4. Equisetum arvense2FACUYes emersent, unless disturbed or problematic.5. Gymnocarpium diyopteris1FACUWe are foround	5.	0	_		Prevalence Index worksheet:
Saping/Shrub Stratum 50% of Total Cover: 1 20% of Total Cover: 0.4 1. Ainus viridis 80 Image: Fac control of total cover: 0.4 OBL Species 0 x 1 = 0 2. Spiraea steveniti 7 Fac control of total cover: 7 Fac control of total cover: Fac control of t	Total Cover		_		Total % Cover of: Multiply by:
1. Alnus viridis 80 \overrightarrow{V} FAC FACW Species 2 x 2 = 4 2. Spiraea stevenii 7 FACU FACU FACU FACU Species 2 x 2 = 4 3. Sorbus scopulina 0.1 FACU FACU FACU Species 2. x 4 = 112.9 4. Ribes glandulosum 0.1 FAC FACU FACU Species 0. x 4 = 112.9 5. 0 0 - FAC FACU Species 0. x 4 = 112.9 6. 0 0 - 0 - FAC FACU Species 0. - FACU Species 0.0 - FACU Species 0.0 - - FACU Species 0.0 - - - 0.0 - - FACU Species 0.0 - - - 0.0 - <td>Sapling/Shrub Stratum 50% of Total Cover:</td> <td>120</td> <td>% of Total Cover</td> <td>0.4</td> <td>OBL Species x 1 =</td>	Sapling/Shrub Stratum 50% of Total Cover:	120	% of Total Cover	0.4	OBL Species x 1 =
2.Spiraea stevenii7 $\begin{tabular}{ c c c c c } FACUFAC Species8.3.3x 3 =249.93.Sorbus scopulina0.1\begin{tabular}{ c c c c c c c } FACUFAC Upcles8.3.3x 3 =249.94.Ribes glandulosum0.1\begin{tabular}{ c c c c c c } FACUFAC Upcles8.3.3x 3 =249.95.00\begin{tabular}{ c c c c c } FACUVPL Species28.2x 4 =112.86.00000Column Totals:113.5(A)366.7(B)7.00$	1. Alnus viridis	80	\checkmark	FAC	FACW Species x 2 =4
3. Sorbus scopulina 0.1 FACU FACU Species 28.2 x 4 = 112.8 4. Ribes glandulosum 0.1 FAC FACU UPL Species 0 x 5 = 0 5. 0 0 0 Column Totals: 113.5 (A) 366.7 (B) 7. 0 0 0 0 Prevalence Index = B/A = 3.231 8. 0 0 0 0 Prevalence Index = B/A = 3.231 9. 0 0 0 0 Prevalence Index = B/A = 3.231 10. 0 0 0 Prevalence Index is \$3.0 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) Prevalence Index is \$3.0 1. Dryopteris expansa 15 FACU Problematic Hydrophytic Vegetation ¹ (Explain) 1 2. Streptopus amplexifolius 2 FACU Problematic Hydrophytic vegetation ¹ (Explain) 1 3. Viola palustris 1 FACU Problematic Mydrophytic vegetation ¹ (Warding Mydrology must be present, unless disturbed or problematic. Pot size (radius, or length x width)	2. Spiraea stevenii	7		FACU	FAC Species 83.3 x 3 = 249.9
4.Ribes glandulosum0.1 \square FACUPL Species0 $x \ 5 = \ 0$ 5.000 <td>3. Sorbus scopulina</td> <td>0.1</td> <td></td> <td>FACU</td> <td>FACU Species <u>28.2</u> x 4 = <u>112.8</u></td>	3. Sorbus scopulina	0.1		FACU	FACU Species <u>28.2</u> x 4 = <u>112.8</u>
5. 0	4. Ribes glandulosum	0.1		FAC	UPL Species $0 \times 5 = 0$
6. 0	5	0			Column Totals: <u>113.5</u> (A) <u>366.7</u> (B)
7. 0 0 0 0 8. 0 0 0 0 9. 0 0 0 0 0 10. 0 0 0 0 0 0 Herb Stratum 50% of Total Cover: 43.6 20% of Total Cover: 17.44 1. Dryopteris expansa 15 ✓ FACU ✓ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 2. Streptopus amplexifolius 2 FACU ✓ Problematic Hydrophytic Vegetation ¹ (Explain) 3. Viola palustris 2 FACU ✓ Problematic Hydrophytic vegetation. 4. Equisetum arvense 2 FACU ✓ Plot size (radius, or length x width) 10m 5. Gymnocarpium dryopteris 1 FACU ✓ Plot size (radius, or length x width) 10m 7. Calamagrostis canadensis 1 FACU % Sare Ground 30 30 8. Equisetum sylvaticum 0.1 FACU % Bare Ground 30 30	6				Prevalence Index = $B/A = 3.231$
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9. 0 0 0 0 10. 0 0 0 0 0 Total Cover: 87.2 Herb Stratum 50% of Total Cover: 43.6 20% of Total Cover: 17.44 Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 1. Dryopteris expansa 15 ✓ FACU Morphological Adaptations ¹ (Explain) 2. Streptopus amplexifolius 2 FACU Problematic Hydrophytic Vegetation ¹ (Explain) 3. Viola palustris 2 FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4. Equisetum arvense 2 FAC 5. Gymnocarpium dryopteris 1 FACU 6. Spinulum annotinum 1 FACU 7. Calamagrostis canadensis 1 FAC 9. Thalictrum sparsiflorum 0.1 FACU 10. Rumex arcticus 0.1 FACU 10. Rumex arcticus 0.1 FAC 9. Thalictrum sparsiflorum 0.1 FAC 10. Ru	8				Hydrophytic Vegetation Indicators:
10.	9		- 🖂		
Herb Stratum 50% of Total Cover: 87.2 1. Dryopteris expansa 15 20% of Total Cover: 17.44 2. Streptopus amplexifolius 2 FACU Problematic Hydrophytic Vegetation ¹ (Explain) 3. Viola palustris 2 FACU FACU Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4. Equisetum arvense 2 FAC FACU Plot size (radius, or length x width) 10m 6. Spinulum annotinum 1 FACU % Cover of Wetland Bryophytes (Where applicable) 7. Calamagrostis canadensis 1 FAC % Bare Ground 30 8. Equisetum sylvaticum 0.1 FAC % Bare Ground 30 9. Thalictrum sparsiflorum 0.1 FAC Wydrophytic Yege No 10. Rumex arcticus 0.1 FAC Hydrophytic Yege No No		$\square \text{Prevalence Index is } \leq 3.0$			
1. Dryopteris expansa 15 Image: FACU of the problematic Hydrophytic Vegetation 1 (Explain) 2. Streptopus amplexifolius 2 FACU of the problematic Hydrophytic Vegetation 1 (Explain) 3. Viola palustris 2 FACU of the problematic Hydrophytic Vegetation 1 (Explain) 4. Equisetum arvense 2 FAC 5. Gymnocarpium dryopteris 1 FACU of the problematic. 6. Spinulum annotinum 1 FACU of the problematic Hydrophytic Vegetation 1 (Explain) 7. Calamagrostis canadensis 1 FACU of the problematic Hydrophytic Vegetation 1 (Explain) 8. Equisetum sylvaticum 0.1 FACU of the size (radius, or length x width) 10m 9. Thalictrum sparsiflorum 0.1 FACU of the problematic Hydrophytics 20 10. Rumex arcticus 0.1 FACU of the problematic Hydrophytic of the problematic Hydrophytics 20 10. Rumex arcticus 0.1 FACU of the problematic Hydrophytic of the prob	Herb Stratum 50% of Total Cover:	43.6 20		r: 17.44	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
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2. Outopropose tampionance Indicators of mydre solution mydrology must be present, unless disturbed or problematic. 3. Viola palustris FACW be present, unless disturbed or problematic. 4. Equisetum arvense FAC Plot size (radius, or length x width) 10m 5. Gymnocarpium dryopteris I FACU Plot size (radius, or length x width) 10m 6. Spinulum annotinum FAC Plot size (radius, or length x width) 10m 7. Calamagrostis canadensis	2 Streptopus amplexifolius	2	-	FACU	¹ Indicators of hydric soil and wetland hydrology must
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9. Thalictrum sparsiflorum 0.1 FACU 10. Rumex arcticus 0.1 FAC 10. Total Cover: 24.3 50% of Total Cover: 12.15 20% of Total Cover: 4.86	8. Equisetum sylvaticum	0.1		FAC	Total Cover of Bryophytes
10. Rumex arcticus 0.1 FAC Hydrophytic Total Cover: 24.3 Vegetation Vegetation 50% of Total Cover: 12.15 20% of Total Cover: 4.86 Yes Image: No Ima	9. Thalictrum sparsiflorum	0.1		FACU	
Total Cover: 24.3 Vegetation 50% of Total Cover: 12.15 20% of Total Cover: 4.86	10. Rumex arcticus	0.1		FAC	Hydrophytic
50% of Total Cover: <u>12.15</u> 20% of Total Cover: <u>4.86</u> Present? Tes vo vo	Total Cover	24.3	_		Vegetation
	50% of Total Cover: <u>1</u>	<u>2.15</u> 20	% of Total Cover	: 4.86	resent? Tes 🔍 NO 🔾

Remarks: drier species growing on hummock. low areas partially veged (<15% total cover) w viola, streptopus, and ribes, w bare ground and leaf litter. 1% willow w/o catkins. Trace of Polemonium acutiflorum, Rubus pedatus. Total tree cover <5% thus no dominant tree species.

Depth M	Denth Matrix Redox Features				,				
(inches) Color (moist) %		%	Color (moist) <u>%</u> <u>Type 1</u>				Texture	Remarks	
0-12 10YR	2/2	100					Sapric Organic	w some mineral content, many ang-subang	
¹ Type: C=Concentration. D=	Depletion. R	M=Reduced	Matrix ² Location	: PL=Pore	e Lining. RC	C=Root Cha	nnel. M=Matrix		
Hydric Soil Indicators:		1	Indicators for Pro	blematic	Hydric So	oils: ³			
 Histosol or Histel (A1) ✓ Histic Epipedon (A2) ✓ Hydrogen Sulfide (A4) 		[Alaska Color Ch Alaska Alpine sv Alaska Redox W	ange (TA4 vales (TA5 'ith 2.5Y H	} ⁴ 5) lue		Alaska Gleyed Without H Underlying Layer Other (Explain in Remark	ue 5Y or Redder s)	
 Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Gleyed Pores (A15)		³ One indicator of I and an appropriate ⁴ Give details of co	nydrophyt e landscap lor change	ic vegetatic e position r e in Remark	n, one prin nust be pre s	nary indicator of wetland h esent	ıydrology,	
Restrictive Layer (if present): Type: none Depth (inches): n/a							Hydric Soil Present	? Yes 🖲 No 🔾	
			s (sink to unices).						
HYDROLOGY							Casan dama Ta di		
Primary Indicators (any one is	sufficient)						Vater Stai	cators (two or more are required)	
Primary Indicators (any one is Surface Water (A1)	<u>sufficient)</u>		Inundation Vi	sible on Ae	erial Image	ry (B7)		ned Leaves (B9) Patterns (B10)	
Saturation (A3) Water Marks (B1)			Marl Deposits Hydrogen Sult	(B15) ide Odor	(C1)	ce (B8)	Oxidized R Presence o Salt Depos	f Reduced Iron (C4) its (C5)	
 Sediment Deposits (B2) Drift Deposits (B3) Alsol Matt on Crust (B4) 			Dry-Season W Other (Explain	ater Table in Remai	Stunted or Geomorph	Stressed Plants (D1) ic Position (D2)			
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)							Microtopog	juitara (D3) jraphic Relief (D4) il Test (D5)	
Field Observations:	_	_							
Surface Water Present?	Yes 🖲	No 〇	Depth (inches	s): 1					
Water Table Present?	Yes 🖲	No \bigcirc	Depth (inches	s): 2		Wetla	nd Hydrology Presen	t? Yes 🖲 No 🔾	
Saturation Present? (includes capillary fringe)	Yes 🖲	No \bigcirc	Depth (inches	5): 1					
Describe Recorded Data (strea	im gauge, m	ionitor well,	aerial photos, prev	ious inspe	ction) if ava	ailable:			
Remarks: seeps\springs in alder discharg	ge slope. ma	ny small dra	inages running dov	vnslope th	rough com	munity.			