WETLAND DETERMINATION DATA FORM - Alaska Region

	ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 03-Aug-12
Applic	ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T38_06
Invest	igator(s): SLI, KMK		Landform (hills	ide, terrac	ce, hummocks etc.): Hillside
	relief (concave, convex, none): flat		Slope:	% / 16.	
	gion : Southcentral Alaska	l at ·	- · <u></u> 62.835426648		Long.: -149.513614039 Datum: NAD83
		Lat	02.033420048	+	
	ap Unit Name:			● No ○	NWI classification: Upland
	imatic/hydrologic conditions on the site typical for this ti	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
		ŭ	tly disturbed?		ionnal oli cametanece procent.
Are	Vegetation ☐ , Soil ☐ , or Hydrology ☐	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)
SUM	MARY OF FINDINGS - Attach site map sho	wing sar	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes O No @)			1.14
	Hydric Soil Present? Yes No				ıpled Area /etland? Yes ◯ No ◉
	Wetland Hydrology Present? Yes O No (Wit	hin a W	etland? Yes ∪ No ●
Rem		eninsula.	One black bear	den obser	ved on this hillside W of this plot, in betula throw mound.
VEG	ETATION - Use scientific names of plants. L	ist all sn	ecies in the r	olot.	
	OSC SCIENCING NAMES OF PIANCES E	Absolute		Indicator	Dominance Test worksheet:
Tre	ee Stratum	% Cove		Status	Number of Dominant Species
1.	Betula neoalaskana	30	✓	FACU	That are OBL, FACW, or FAC: 2 (A)
2.	Picea glauca	20	✓	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
3.				FACU	Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 28.6% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cover	: 55	_		Total % Cover of: Multiply by:
Sa	pling/Shrub Stratum 50% of Total Cover:	27.5 209	% of Total Cover:	11	OBL Species 0 x1= 0
1					
	Vaccinium ovalifolium	30	✓	EAC	FACW Species $0 \times 2 = 0$
	Vaccinium ovalifolium	30		FACIL	FACW Species 0 x 2 = 0 FAC Species 45 x 3 = 135
2.	Picea glauca	15		FACU	FAC Species 45 x 3 = 135
2. 3.	Picea glauca Linnaea borealis	15		FACU	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460
2. 3. 4.	Picea glauca Linnaea borealis Sorbus scopulina	15 2 2		FACU	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0
2. 3. 4. 5.	Picea glauca Linnaea borealis Sorbus scopulina	15 2 2 0		FACU	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460
2. 3. 4.	Picea glauca Linnaea borealis Sorbus scopulina	15 2 2 0 0		FACU	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0
2. 3. 4. 5. 6.	Picea glauca Linnaea borealis Sorbus scopulina	15 2 2 0 0		FACU	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719
2. 3. 4. 5.	Picea glauca Linnaea borealis Sorbus scopulina	15 2 2 0 0 0 0		FACU	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B)
2. 3. 4. 5. 6. 7.	Picea glauca Linnaea borealis Sorbus scopulina	15 2 2 0 0 0 0		FACU	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 Hydrophytic Vegetation Indicators:
2. 3. 4. 5. 6. 7. 8. 9.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover	15 2 2 0 0 0 0 0 0		FACU FACU FACU	FAC Species 45 $\times 3 = 135$ FACU Species 115 $\times 4 = 460$ UPL Species 0 $\times 5 = 0$ Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0
2. 3. 4. 5. 6. 7. 8. 9.	Picea glauca Linnaea borealis Sorbus scopulina	15 2 2 0 0 0 0 0 0		FACU FACU FACU	FAC Species 45 $\times 3 = 135$ FACU Species 115 $\times 4 = 460$ UPL Species 0 $\times 5 = 0$ Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 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)
2. 3. 4. 5. 6. 7. 8. 9.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover rb Stratum 50% of Total Cover:	15 2 2 0 0 0 0 0 0 0 24.5 20	y	FACU FACU FACU	FAC Species 45 $\times 3 = 135$ FACU Species 115 $\times 4 = 460$ UPL Species 0 $\times 5 = 0$ Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤ 3.0 Morphological Adaptations 1 (Provide supporting data in
2. 3. 4. 5. 6. 7. 8. 9. 10.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover 50% of Total Cover:	15 2 2 0 0 0 0 0 0 0 24.5 20 24.5	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU FACU	FAC Species 45 $\times 3 = 135$ FACU Species 115 $\times 4 = 460$ UPL Species 0 $\times 5 = 0$ Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 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
2. 3. 4. 5. 6. 7. 8. 9. 10.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover rb Stratum Gymnocarpium dryopteris	15 2 2 0 0 0 0 0 0 0 24.5 20 24.5	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU FACU 9.8 FACU	FAC Species 45 $\times 3 = 135$ FACU Species 115 $\times 4 = 460$ UPL Species 0 $\times 5 = 0$ Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 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)
2. 3. 4. 5. 6. 7. 8. 9. 10.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover rb Stratum Gymnocarpium dryopteris Dryopteris expansa	15 2 2 0 0 0 0 0 0 24.5 25 10 10	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU 9.8 FACU FACU	FAC Species 45 $\times 3 = 135$ FACU Species 115 $\times 4 = 460$ UPL Species 0 $\times 5 = 0$ Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 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.
2. 3. 4. 5. 6. 7. 8. 9. 10. He 1. 2. 3.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover rb Stratum Gymnocarpium dryopteris Dryopteris expansa Rubus pedatus	15 2 2 0 0 0 0 0 0 0 24.5 20 25 10 10 5	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU 9.8 FACU FACU FACU FACU FACC FACC	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 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
2. 3. 4. 5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover rb Stratum Gymnocarpium dryopteris Dryopteris expansa Rubus pedatus Calamagrostis canadensis	15 2 2 0 0 0 0 0 0 0 24.5 20 25 10 10 5	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU 9.8 FACU FACU FACU FACU FACU FACU FACU FAC	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 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.
2. 3. 4. 5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover rb Stratum Gymnocarpium dryopteris Dryopteris expansa Rubus pedatus Calamagrostis canadensis Chamaenerion angustifolium	15 2 2 0 0 0 0 0 0 0 24.5 20 10 10 5 3 1	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU 9.8 FACU FACU FACU FACU FACU FACU FACU FAC	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 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 % Cover of Wetland Bryophytes
2. 3. 4. 5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 8. 9. 10.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover 50% of Total Cover: Gymnocarpium dryopteris Dryopteris expansa Rubus pedatus Calamagrostis canadensis Chamaenerion angustifolium Streptopus amplexifolius Cornus canadensis Spinulum annotinum	15 2 2 0 0 0 0 0 0 0 24.5 20 10 10 5 3 1 1	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU 9.8 FACU FACU FACU FACU FACU FACU FACU FAC	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable)
2. 3. 4. 5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 9.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover rb Stratum 50% of Total Cover: Gymnocarpium dryopteris Dryopteris expansa Rubus pedatus Calamagrostis canadensis Chamaenerion angustifolium Streptopus amplexifolius Cornus canadensis Spinulum annotinum	15 2 2 0 0 0 0 0 0 0 24.5 25 10 10 5 3 1 1 1	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU 9.8 FACU FACU FACU FACU FACU FACU FACU FAC	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 Hydrophytic Vegetation Indicators: Dominance Test is > 50% Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 80
2. 3. 4. 5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 9.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover rb Stratum Gymnocarpium dryopteris Dryopteris expansa Rubus pedatus Calamagrostis canadensis Chamaenerion angustifolium Streptopus amplexifolius Cornus canadensis Spinulum annotinum	15 2 2 0 0 0 0 0 0 0 24.5 20 25 10 10 5 3 1 1 1 0 0	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU 9.8 FACU FACU FACU FACU FACU FACU FACU FAC	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 Hydrophytic Vegetation Indicators: □ Dominance Test is > 50% □ Prevalence Index is ≤ 3.0 □ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) □ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 80 Total Cover of Bryophytes Hydrophytic
2. 3. 4. 5. 6. 7. 8. 9. 10. Hee 1. 2. 3. 4. 5. 6. 7. 8. 9.	Picea glauca Linnaea borealis Sorbus scopulina Total Cover rb Stratum 50% of Total Cover: Gymnocarpium dryopteris Dryopteris expansa Rubus pedatus Calamagrostis canadensis Chamaenerion angustifolium Streptopus amplexifolius Cornus canadensis Spinulum annotinum	15 2 2 0 0 0 0 0 0 24.5 20 25 10 10 5 3 1 1 1 0 0 0 5	✓ ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	FACU FACU 9.8 FACU FACU FACU FACU FACU FACU FACU FAC	FAC Species 45 x 3 = 135 FACU Species 115 x 4 = 460 UPL Species 0 x 5 = 0 Column Totals: 160 (A) 595 (B) Prevalence Index = B/A = 3.719 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 % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 80 Total Cover of Bryophytes 5

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW12_T38_06

General O-4 4-5 4-5 5-5-5 5-5-7 7-578 5/2 50 50 50 50 50 50 50 50 50 5	Profile Description: (Describe t	the depth ne	eded to docun	nent the ind		ox Featu	res		_	
### Herric Organics Sanct Organics	: .	noist)	%	Color (m	noist)	%	Type ¹	<u>Loc</u> 2	Texture	Remarks
Septic Organics charcosis	0-4								Fibric Organics	_
5.5-10 7.5VR 5/2 50 7.5VR 3/3 100 this layer of concretions 10.5-18 10VR 4/4 100 Sandy Laam 10.5	4-5								Hemic Organics	
10-10.5 SYR 3/3 100 thin layer of concretions 10-10.5 SYR 3/3 100 Sandy Loain 10-5-18 10YR 4/4 100 Sandy Loain	5-5.5								Sapric Organics	charcoal
10.5-18 10YR 4/4 100 Sendy Losen Type: C=Concentration. D=Depletion. RM=Reduced Matrix	5.5-10 7.5YR	5/2	50	7.5YR	3/2	50		М	Ash	two matrix colors
thydric Soil Indicators: Historio or histel (A1)	10-10.5 5YR	3/3	100							thin layer of concretions
**Type: C=Concentration, D=Depletion, RM=Reduced Matrix **Location: PL=Pore Lining, RC=Root Channel, M=Matrix **Hydric Soil Indicators:	10.5-18 10YR	4/4	100						Sandy Loam	
Hydric Soil Indicators: Histosol or Histel (A1)										_
Histosol or Histel (A1)	Type: C=Concentration. [D=Depletion	RM=Reduce	ed Matrix	² Location	: PL=Pore	e Lining. RO	=Root Cha	annel. M=Matrix	_
Histic Epipedon (A2)	lydric Soil Indicators:			Indicate	ors for Pro	oblematio	Hydric S	oils: ³		
Hydrogen Sulfide (A4)	Histosol or Histel (A1)			Alask	ka Color Ch	ange (TA4	4			Hue 5Y or Redder
Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed Pores (A15) **Give details of color change in Remarks* **Give details of color change in Remarks* **Give details of color change in Remarks* **Bestrictive Layer (if present): Type: Depth (inches): Destrictive Layer (A1) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Destrictive Layer (A1) Depth (inches): Depth (inches): Destrictive Layer (A1) Depth (inches): Depth (inches): Destrictive Layer (A1) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Destrictive Layer (A1) Depth (inches): De	Histic Epipedon (A2)			Alask	ka Alpine sv	wales (TA5	5)			
Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A15) **Give details of color change in Remarks **Estrictive Layer (if present): Type: Depth (inches): **Emarks: O hydric soil indicators. site appears to have burned in the past - thick ash layer, charcoal, highly oxidized upper portion of mineral soils. **PIROLOGY **Vetland Hydrology Indicators: Primary Indicators (any one is sufficient)	Hydrogen Sulfide (A4)			Alask	ka Redox W	/ith 2.5Y H	lue		Other (Explain in Rema	rks)
Alaska Rock (A14) Alaska Rock (A15) Alaska Gleyed Pores (A15) Alaska Gleyed Pores (A15) Bestrictive Layer (if present): Type: Depth (Inches): ### Hydric Soil Present? Yes No Depth (Inches): ### Presents of have burned in the past - thick ash layer, charcoal, highly oxidized upper portion of mineral soils. ### Presents of hydric soil indicators. site appears to have burned in the past - thick ash layer, charcoal, highly oxidized upper portion of mineral soils. ### Presents of hydric soil indicators (anv one is sufficient) Hydrogory Indicators (anv one is sufficient) Hydrogory Wetland Hydrology Indicators (anv one is sufficient) Hydrogory Indicators (anv one is sufficient) Hydrogory Mater Table (A2) Sparsely Vegetated Concave Surface (B8) Doi/alage Patterns (B10) Fresence of Reduced Iron (C4) Hydrogory Sufface Odor (C1) Seld ment Deposits (B3) Doirit Deposits (B4) Doirit Deposits (B4) Doirit Deposits (B5) Surface Soil Cracks (B6) Hydrotopographic Relief (D4) FAC-neutral Test (D5) Hydrotopographic Relief (D4) FAC-neutral Test (D5) Hydrotopographic Relief (D4) FAC-neutral Test (D5) Hydrogory Present? FAC-neutral Test (D5) Hydrotopographic Relief (D4) FAC-neutral Te	Thick Dark Surface (A1	2)		3 ∩no ir	adicator of	hydronhyt	ic vegetatio	n one prir	many indicator of wotland	hydrology
Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks estrictive Layer (if present): Type: Depth (inches): emarks: o hydric soil indicators, site appears to have burned in the past - thick ash layer, charcoal, highly oxidized upper portion of mineral soils. **POROLOGY** Vettand Hydrology Indicators: o hydric soil indicators (any one is sufficient) High Water Table (A2) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Drift Deposits (B4) Drift Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Depth (inches): Saturation Present? Yes No	_									nyurology,
Adapt Grose (ALS) Type:	_ ` ´	45)		4 Give d	details of co	lor change	e in Remark	(S		
Type: Depth (inches): ### Apdric Soil Present? Yes No No Present? No	Alaska Gleyed Pores (A	.15)		0.70 0						
POROLOGY Vetand Hydrology Indicators: Secondary Indicators (two or more are required) Pinnary Indicators (and one is sufficient) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Drift Deposits (B2) Drift Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Sign (Crust (B4)) Drift Deposits (B5) Surface Sign (Crust (B4)) Drift Deposits (B5) Drift Deposits (B):								0 0
emarks: o hydric soil indicators. site appears to have burned in the past - thick ash layer, charcoal, highly oxidized upper portion of mineral soils. **PDROLOGY** **Vetland Hydrology Indicators:	Type:								Hydric Soil Presen	t? Yes ∪ No 🖲
PUROLOGY Vetland Hydrology Indicators: Secondary Indicators (two or more are required)	Depth (inches):									
Secondary Indicators: Secondary Indicators: (two or more are required)	emarks:	e appears to	have burned	l in the pa	est - thick as	sh layer, c	harcoal, hiç	ghly oxidize	ed upper portion of miner	al soils.
Primary Indicators (any one is sufficient) Surface Water (A1) High Water Table (A2) Sparsely Vegetated Concave Surface (B8) Oxidized Rhizospheres along Living Roots (C3) Saturation (A3) Marl Deposits (B15) Presence of Reduced Iron (C4) Satin Deposits (B1) Dy-Season Water Table (C2) Stunted or Stressed Plants (D1) Drift Deposits (B3) Other (Explain in Remarks) Geomorphic Position (D2) Surface Soil Cracks (B6) Surface Soil Cracks (B6) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	emarks:	e appears to	have burned	l in the pa	nst - thick a:	sh layer, c	harcoal, hi	ghly oxidize	ed upper portion of miner	al soils.
Surface Water (A1)	emarks: b hydric soil indicators. site		have burned	l in the pa	ist - thick a	sh layer, c	harcoal, hig	ghly oxidize	ed upper portion of miner	al soils.
High Water Table (A2)	emarks: b hydric soil indicators. site YDROLOGY Vetland Hydrology India	cators:		l in the pa	st - thick a	sh layer, c	harcoal, hi	ghly oxidize	_Secondary Inc	licators (two or more are required)
Saturation (A3)	POROLOGY Vetland Hydrology Indicators (any one	cators:							Secondary Ind	licators (two or more are required) nined Leaves (B9)
Water Marks (B1)	YDROLOGY //etland Hydrology Indicators (any one Surface Water (A1)	c ators: e is sufficient		Inc	undation Vi	sible on A	erial Image	ry (B7)	Secondary Inc	licators (two or more are required) ined Leaves (B9) Patterns (B10)
Sediment Deposits (B2)	YDROLOGY //etland Hydrology Indicators (any one Surface Water (A1) High Water Table (A2)	c ators: e is sufficient		☐ Int	undation Vi arsely Vege	sible on Aetated Con	erial Image	ry (B7)	Secondary Inc Water Sta Drainage Oxidized	licators (two or more are required) nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
□ Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Microtopographic Relief (D4) □ FAC-neutral Test (D5) □ Surface Soil Cracks (B6) □ FAC-neutral Test (D5) □ Surface Water Present? Yes □ No ● Depth (inches): Water Table Present? Yes □ No ● Depth (inches): Saturation Present? Yes □ No ● Depth (inches): Saturation Present? Yes □ No ● Depth (inches): Sescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	YDROLOGY //etland Hydrology Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3)	c ators: e is sufficient		☐ Int	undation Vi arsely Vege arl Deposits	sible on Adetated Con (B15)	erial Image Icave Surfa	ry (B7)	Secondary Inc Water Sta Drainage Oxidized Presence	licators (two or more are required) inned Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
Algal Mat or Crust (B4) ☐ Iron Deposits (B5) ☐ Surface Soil Cracks (B6) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) ☐ Surface Water Present? Surface Water Present? Wetland Hydrology Present? Yes	YDROLOGY Vetland Hydrology Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	c ators: e is sufficient		Int	undation Vi arsely Vege arl Deposits drogen Sul	sible on Adetated Con (B15) fide Odor	erial Image Icave Surfa (C1)	ry (B7)	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo	licators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
☐ Iron Deposits (B5) ☐ Microtopographic Relief (D4) ☐ FAC-neutral Test (D5) ☐ Surface Soil Cracks (B6) ☐ FAC-neutral Test (D5) ☐ FAC-neutral Test (D5	YDROLOGY Vetland Hydrology Indicators (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	c ators: e is sufficient		Int	undation Vi arsely Vege arl Deposits rdrogen Sul y-Season W	sible on Adetated Con (B15) fide Odor Vater Table	erial Image Icave Surfa (C1) e (C2)	ry (B7)	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo	licators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	YDROLOGY Vetland Hydrology Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	cators: e is sufficient		Int	undation Vi arsely Vege arl Deposits rdrogen Sul y-Season W	sible on Adetated Con (B15) fide Odor Vater Table	erial Image Icave Surfa (C1) e (C2)	ry (B7)	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo	licators (two or more are required) lined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) lisits (C5) or Stressed Plants (D1) hic Position (D2)
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	YDROLOGY /etland Hydrology 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)	cators: e is sufficient		Int	undation Vi arsely Vege arl Deposits rdrogen Sul y-Season W	sible on Adetated Con (B15) fide Odor Vater Table	erial Image Icave Surfa (C1) e (C2)	ry (B7)	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A	licators (two or more are required) sined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) quitard (D3)
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:	YDROLOGY Vetland Hydrology Indicators (any one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	cators: e is sufficient		Int	undation Vi arsely Vege arl Deposits rdrogen Sul y-Season W	sible on Adetated Con (B15) fide Odor Vater Table	erial Image Icave Surfa (C1) e (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A	licators (two or more are required) nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) quitard (D3) ographic Relief (D4)
Saturation Present? (includes capillary fringe) Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	YDROLOGY /etland Hydrology India rimary 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) Iron Deposits (B5) Surface Soil Cracks (B6)	cators: e is sufficient e)	:)	Int	undation Vi arsely Vege arl Deposits rdrogen Sul y-Season W	sible on Adetated Con (B15) fide Odor Vater Table	erial Image Icave Surfa (C1) e (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A	licators (two or more are required) nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) quitard (D3) ographic Relief (D4)
(includes capillary fringe) Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: Remarks:	YDROLOGY /etland Hydrology 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) Iron Deposits (B5) Surface Soil Cracks (B6)	cators: e is sufficient e)	:)	Into Sp. Man Hy	undation Vi arsely Vege arl Deposits drogen Sul y-Season W her (Explair	sible on Adetated Con (B15) fide Odor Jater Table n in Remai	erial Image Icave Surfa (C1) e (C2)	ry (B7)	Secondary Ind Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A	licators (two or more are required) nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) quitard (D3) ographic Relief (D4)
temarks:	YDROLOGY Vetland Hydrology Indicators (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Water Present?	cators: e is sufficient 2) Yes) No •	Into Sp. Maa Hy	undation Vi arsely Vege arl Deposits drogen Sul y-Season W her (Explair	sible on Adetated Con (B15) fide Odor Vater Table n in Reman	erial Image Icave Surfa (C1) e (C2)	ry (B7) ce (B8)	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A Microtopo	licators (two or more are required) sined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) nic Position (D2) equitard (D3) ographic Relief (D4) al Test (D5)
	PYDROLOGY Vetland Hydrology Indicators (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Water Present? Water Table Present?	cators: e is sufficient 2) Yes C Yes C) No • No • No •	Int Sp. Maa Hy Dr Ott	undation Vi arsely Vege arl Deposits drogen Sul y-Season W her (Explain epth (inches	sible on Adetated Con (B15) fide Odor Jater Table on in Reman	erial Image Icave Surfa (C1) e (C2)	ry (B7) ce (B8)	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A Microtopo	licators (two or more are required) sined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) nic Position (D2) equitard (D3) ographic Relief (D4) al Test (D5)
	YDROLOGY //etland Hydrology Indicators. sites //etland Hydrology Indicators (any one of the original ori	cators: e is sufficient 2) Yes Yes Yes) No • No • No • No •	Interpretation of the property	undation Vi varsely Vege arl Deposits drogen Sul y-Season W her (Explain epth (inches	sible on Adetated Con (B15) fide Odor Vater Table in in Remai	erial Image Icave Surfa (C1) e (C2) rks)	ry (B7) ce (B8) Wetla	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A Microtopo	licators (two or more are required) lined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) lisits (C5) or Stressed Plants (D1) linic Position (D2) liquitard (D3) ographic Relief (D4) al Test (D5)
o wedana nyarology indicators	YDROLOGY Vetland Hydrology Indicators. Sites Primary Indicators (any one of the content of the	cators: e is sufficient 2) Yes Yes Yes) No • No • No • No •	Interpretation of the property	undation Vi varsely Vege arl Deposits drogen Sul y-Season W her (Explain epth (inches	sible on Adetated Con (B15) fide Odor Vater Table in in Remai	erial Image Icave Surfa (C1) e (C2) rks)	ry (B7) ce (B8) Wetla	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A Microtopo	licators (two or more are required) sined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) nic Position (D2) equitard (D3) ographic Relief (D4) al Test (D5)
	PYDROLOGY Vetland Hydrology Indicators. Sites Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) ield Observations: Surface Water Present? Water Table Present? Saturation Present? Sincludes capillary fringe) escribe Recorded Data (steeparks:	cators: e is sufficient 2) Yes Yes Yes Team gauge,) No • No • No • No •	Interpretation of the property	undation Vi varsely Vege arl Deposits drogen Sul y-Season W her (Explain epth (inches	sible on Adetated Con (B15) fide Odor Vater Table in in Remai	erial Image Icave Surfa (C1) e (C2) rks)	ry (B7) ce (B8) Wetla	Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A Microtopo	licators (two or more are required) lined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) lisits (C5) or Stressed Plants (D1) linic Position (D2) liquitard (D3) ographic Relief (D4) al Test (D5)

U.S. Army Corps of Engineers Alaska Version 2.0