WETLAND DETERMINATION DATA FORM - Alaska Region

Investigator(s): OVF Landrom (hillside, terrace, hummocks etc.): Lowland Local relif (concave, convex, none): fat Slope: 0.0 % / 0.0 * Elevation: Datum: WGS34 Soli Map Unit Name: Lat: Long.: Datum: WGS4 No C (fine, explain in Remark.) Are Vegetation . or Hydrology instructivity disturbed? Are Normal Circumstances' present? Yes ® No C Are Vegetation . or Hydrology instructivity problematic? (fine explain in Remark.) Are Normal Circumstances' present? Yes ® No C Hydrophytic Vegetation Present? Yes ® No C Is the Sampled Area within a Wetland? Yes ® No C Wetland Hydrology Present? Yes ® No C Is the Sampled Area within a Wetland? Yes ® No C Vetation Market Sources for an explain an explai	Project	Site: Susitna-Watana Hydroelectric Project		В	orough/City:	Matanuska	a-Susitna Borough Sampling Date: 22-Aug-15		
mestgard(s): GVF Landform (hildsde, larace, hummacks etc.): Lowland Lacat relief (concave, convex, none): fat Stope: 0.9 % / 0.0 * Elevation: Datum: WGS Solid Map Unit Name: NWI classification: PENTE NWI classification: PENTE Ne regetation . Solid . or Hydrology instruction (during) No C No C No C No C Are Vegetation . Solid . or Hydrology instruction (during) No C No C No C No C SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes ● No C Is the Sampled Area Wetland Hydrology Present? Yes ● No C Is the Sampled Area No C Within a Wetland? Yes ● No C ZEGETATION - Use scientific names of plants. List all species in the plot. Total Number of Denihant Species Total Number of Denihant Species 1.									
Subtregion: Cook Inter Mountains Lat: Long: Datum: WW classification: PEMTE Are degatation									
Subregion: Cook Intel Mountains Lat: Long: Datum: WW classification: PEMTE Are degetation Soil or Hydrology asgnificantly disturbed? Are "Normal Circumstances" present? Yes Image: No O Are Vegetation Soil or Hydrology asgnificantly disturbed? Are "Normal Circumstances" present? Yes Image: No O SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrolytic Vegetation Present? Yes No O Hydrolytic Vegetation Present? Yes No O Is the Sampled Area within a Wetland? Yes No O Remarks: somewhat heterogeneous, drier paludified patches w/ dense sphagnum, few shubs interspresed w/ flooded caraqu. Pominance Test worksheet: YEGETATION - Use scientific names of plants. List all species in the plot. Number of Dominant Species 4 (R) 1. Greer Seciet? State Number of Dominant Species 4 (R) 2. Test Worksheet: Trata Worksheet: Trata Worksheet: Trata Worksheet: 1. Control Cover: 0 Percent of Coninant Species 4 (R) 3. Test worksheet: Trata No BL, PACV, PACX: 4 (A) Salit fuscescons 3	-				Slope: 0.0	%/ 0.0			
Soli Map Unit Name: INWI classification: PEM1E We dimitalizibility diregion on the site typical for this time of year? Yes ® No (#row station: PEM1E Are Vegetation , Soli			La		·		– Datum: WGS84		
Are climatic hydrologic conditions on the site hydrology is aplificantly disturbed? Yes ● No (If no, explain in Remarks.) Are Vegetation is Soil or Hydrology instantly problematic? Yes (Mineeded, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes ● No (Yes ● No	-		LC						
Are Vegetation , Sol , or Hydrology aignificantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation , Sol , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No Hydrophytic Vegetation Present? Yes No Is the Sampled Area within a Wetland? Yes No Remarks: somewhat heterogeneous, drier paludified patches w/ dense sphagnum, few shrubs interspersed w/ flooded caraqu. Is the Sampled Area within a Wetland? Yes No ZEGETATION - Use scientific names of plants. List all species in the plot. Dominant Indicator Strate Dominant Species Trat are OBL FACW, or FAC: 100.0% (AB) 4 1					N (
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Summary of FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes ● No Hydrophytic Vegetation Present? Yes ● No Is the Sampled Area within a Wetland? Yes ● No Wetland Hydrology Present? Yes ● No Is the Sampled Area within a Wetland? Yes ● No Remarks: somewhat heterogeneous, drier paludified patches w/ dense sphagnum,few shrubs interspersed w/ flooded caraqu. VEGETATION - Use scientific names of plants. List all species in the plot. Dominance Test worksheet: Number of Dominat Species Across All Number of Dominat Number of Dominat Species Across All Number of Dominat Number of Dominat Species									
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Absolute Dominant Indicator Yee Stratum %6 Cover Species? Status 1.									
Absolute Dominant Indicator Yee Stratum %6 Cover Species? Status 1.	VEGE	TATION - Use scientific names of plants. L	st all	spe	cies in the p	olot.			
Tree Stratum % Cover Species? Status Number of Dominant Species 1.				•			Dominance Test worksheet:		
1.	Tree	Stratum							
2.							That are OBL, FACW, or FAC: <u>4</u> (A)		
3.	2.								
4.	3.		_						
Total Cover:	4.			_					
Total Cover: O Total Cover: O Total % Cover of: Multiply by: Sapling/Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 DEL DEL Salix fuscescens 3 Image: Salix fuscescens 2 FACW FACW FACW FACW FAC Species 4.2 x 2 = 8.4 FAC Species 0 X 4 = 0 DEL DE	5.		_	_			Provalance Index worksheet:		
Sapling / Shrub Stratum 50% of Total Cover: 0 20% of Total Cover: 0 1. Salix fuscescens 3 Image: FACW FACW FACW FACW 2. Betula nana 2 Image: FACW FACW FACW FACW FACW Species 4.2 x 2 = 8.4 3. Andromeda polifolia 1 Image: FACW FACW FACW Species 0 x 4 = 0 4. Vaccinium oxycoccos 0.1 Image: OBL OBL OBL OCIUMN Totals: 36.3 (A) 44.5 (B) 6. 0 Image: ODL 0 Image: ODL		Total Cover	: _	0					
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3. Andromeda polifolia 1 $FACW$ 4. Vaccinium oxycoccos 0.1 OBL 5. Picea mariana 0.1 FACW 6. 0 Column Totals: 36.3 (A) 7. 0 Prevalence Index = B/A = 1.226 8. 0 Prevalence Index is $> 50\%$ 0 9. 0 0 Prevalence Index is $> 50\%$ 10. 0 0 Prevalence Index is $> 50\%$ 11. Carex aquatilis 15 OBL Prevalence Index is ≤ 3.0 12. Carex magellanica 15 OBL Problematic Hydrophytic Vegetation (Explain) 13. Comarum palustre 5 OBL Indicators of hydric soil and wethand hydrology must be present, unless disturbed or problematic. 4. Parnassia palustris 0.1 FACW Plot size (radius, or length x width) 5m 6. 0 0 9 0 10 Year as a parate soil and thydrology must be present, unless disturbed or problematic. 9									
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5. 0 0 0 5m 6. 0 0 0 0 0 7. 0 0 0 0 0 0 8. 0 0 0 0 0 0 0 9. 0 0 0 0 0 0 0 0				5		OBL	be present, unless disturbed or problematic.		
5. 0	4.	Parnassia palustris				FACW	Plot size (radius, or length x width) 5m		
0 0	5.		-	-					
7.				-			(Where applicable)		
9. 0				-			% Bare Ground _20		
				-			Total Cover of Bryophytes _50		
			_	-					
	10.	Tatal Cause					Hydrophytic Vegetation		
Total Cover:30.1Vegetation50% of Total Cover:15.0520% of Total Cover:6.02Present?YesNo			_		of Total Cover	6.02			
Remarks: bare ground is mostly water, mosses mostly sphagnum	-					0.02	-		

US Army Corps of Engineers

SOIL

(inches) Color (moist) % Color (moist) % Type1 Loc. ² Texture Remarks 0-17	Profile Descript Depth		ne depth needed to c I atrix	locument the indicator or co Re	onfirm the ab dox Featu		cators)		
0-17 First Organics 0-17 First Organics 0 First Organics 1 Type: (= Concentration, D=Depletion, RM=Reduced Matrix * 1 coation: PL=Pore Lining, RC=Root Channel, M=Matrix thdicators: Indicators for Problematic Hydric Solls* I Hydric Soll Indicators: Indicators for Problematic Hydric Solls* Hydric Soll Indicators: Indicators for Problematic Hydric Solls* I Hydrigon Suitude (A) Aaska Color Otange (TA) Aaska Clevel (A12) Aaska Apine swale: (TAS) Aaska Clevel (A13) * 0 on indicator of Hydrolynict: wgettation, one primary indicator of wetland hydrology, and appropriate indicator (R5) Primery Indicators: * Give details of color change in Remarks Wetland Hydrology Indicators: * Give details of color change (R5) Marker Water (A1) I mundation Visible on Aerial Imagery (R7) Marker Water (A1) I mundation Visible on Aerial Imagery (R7) Marker Water (Color (moi	st) %	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
**Type:: Concentration. D=Depletion. RM=Reduced Metrix * Location: PL=Pore Lining. RC=Root Channel, M=Matrix **Type:: Indicators for Problematic Hydric Solls* **Hotool of risk (pla) Aaksda Alpine wales (rA5) **Hotool of risk (pla) * Gine indicator of hydrohydrix vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present * Alaska Bloekd K1419 * Gine details of otdor charge in Remarks **Editive: Layer (risk (ra1) * Gine details of otdor charge in Remarks **Editive: Layer (risk (ra1) * Gine details of otdor charge in Remarks **Editive: Layer (risk (ra1) * Gine details of otdor charge in Remarks **Editive: Layer (risk (ra1) * Gine details of otdor charge in Remarks **Startardon (risk (ra1) * Gine details of otdor charge in Remarks **Startardon (ra3) * Mat Depastig (r	0-17							Fibric Organics	
Hydric Soil Indicators: Indicators for Problematic Hydric Soils? Histosol or Histel (A1) Abaska Color Change (TA4) Abaska Gleyed (A13) Baska Redow (MH 2,SY Hue) Abaska Gleyed Pores (A15) * Give details of color change in Remarks Restrictive Layer (If present): Type: Depth (inches): Hydric Soil Present? Yes (* No (* N									
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I Histosol or Histel (A1) □ Alaska Color Change (TA4) □ Alaska Alpine swales (TA5) □ Histic Epipedion (A2) □ Alaska Alpine swales (TA5) □ Other (Explain in Remarks) □ Histosol or Histel (A1) □ Alaska Redox (With 2.5Y Hue □ Other (Explain in Remarks) □ Alaska Geyed (A13) □ Alaska Redox (A14) □ Secondary. Indicator of wetland hydrology, and an appropriate landscape position must be present Alaska Gleyed Pores (A15) ▲ Give details of color change in Remarks Restrictive Layer (If present): Type: Type: Depth (inches): Remarks: Hydrogo Sufficients: Primary Indicators: Secondary. Indicators. (two or more are reaulired) Phinary. Indicators (any one is sufficient) □ Inundation Visible on Aerial Imagery (87)	¹ Type: C=Cor	ncentration. D=	Depletion. RM=Re	duced Matrix ² Locatio	n: PL=Por	e Lining. R(C=Root Cha	nnel. M=Matrix	
Instric Epipedon (A2) Indextyoing survey Instruct Properties Other (Explain in Remarks) Instruct Properties Other (Explain in Remarks) Instruct Properties Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present Instruct Properties Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present Instruct Properties Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present Instruct Properties Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology. Instruct Properties Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology. Instruct Properties Indicator of hydrophytic vegetation, one primary indicator of wetland hydrology. Instruct Properties Indicator of hydrophytic vegetation. Prime: Definition Prime: Indicator of hydrophytic vegetation. Print Properite Rel (Inches): <td>Hydric Soil I</td> <td>ndicators:</td> <td></td> <td>Indicators for P</td> <td>roblemati</td> <td>c Hydric S</td> <td>oils:³</td> <td></td> <td></td>	Hydric Soil I	ndicators:		Indicators for P	roblemati	c Hydric S	oils: ³		
I Histic Epipedon (A2) Indextyning Layer I Hydrogen Sulfde (A4) A Jaska Redox With 2.5Y Hue Other (Explain in Remarks) I Thick Dark Surface (A12) 3 One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, and an appropriate landscape position must be present Alaska Redox (A14) Alaska Redox (A15) * Give details of color change in Remarks Restrictive Layer (If present): Type: Hydric Soil Present? Yes No ○ Depth (inches): Secondary Indicators (two or more are reauired) Primary Indicator (A3) Inundation Visible on Aerial Imagery (87) Droin Researce (88) Muter Table (A2) Sparsely Vegetated Concave Surface (88) Oxdideed Thiorgon Patterns (810) Water Marks (B1) M Hydrogon Sufface (C1) Sufface Valued Tron (C4) Water Marks (B1) M Hydrogon Sufface Or Surface (88) Oxdideed Thiorgon Present? Yes No I Dring Deposits (B3) Other (Explain in Remarks) Surface Valued Tron (C4) Adaska Redox (B6) Freement? Yes No ● Dirth Deposits (B3) Other (Explain in Remarks) Surface Valued Tron (C4) Adaska (B1) Pry-Season Water Table (C2) Surface Valued Tron (C4) Adaska (B1) M Hydrogons Sufface On Custs (B6) FAC-neutral T	Histosol o	r Histel (A1)		Alaska Color C	hange (TA	4) ⁴		Alaska Gleyed Without H	ue 5Y or Redder
Image: Suffice (A4) Alaska Redox With 2.5Y Hue Other (Explain in Remarks) Image:	_	. ,				-			
Order Deck (1) Order Deck (2) Orde						-		Other (Explain in Remark	s)
Alaska Gleyed (A13) and an appropriate landscape oposition must be present Alaska Cleyed (A14) *Give details of color change in Remarks Alaska Cleyed Pores (A15) *Give details of color change in Remarks Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes ● No ● Remarks: Hydric Soil Present? Yes ● No ● Primary Indicators (two or more are required) Inundation Visible on Aerial Imagery (87) Drainage Patterns (B10) Y High Water Table (A2) Deparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Inundation Sible on Aerial Imagery (87) Y High Water Table (A2) Deparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Ining Notice (C3) Y Hayh Water Table (A2) Deparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Ining Notice (C3) Y Hayh Water Table (A2) Deparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Ining Notice (C3) Y Hayh Water Table (A2) Deparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Ining Notice (C3) Y Hoyh Water Table (A2) Deparsely Noter Table (C2) Suntato on Stressed Plants (D1) Surface Nature (D4) Surface Nature (D4) Surface Nature (D4) <td< td=""><td></td><td>. ,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		. ,							
☐ Alaska Redox (A14) ▲ Give details of color change in Remarks Restrictive Layer (If present): Type: Depth (inches): Hydric Soil Present? Yes ● No ● Remarks: Wetland Hydrology Indicators: Primary Indicators (two or more are required)		. ,							ydrology,
Alaska Gleyed Pores (A15) *Give details of color change in Remarks Restrictive Layer (If present): Type: Depth (inches): Remarks: Hydric Soil Present? Yes HyDROLOGY Wettand Hydrology Indicators: Primary Indicators (any one is sufficient) Marka Calleyed Pores (A1) Marka Calleyed Pores Marka Calleyed Pores Marka Calleyed Pores Hydric Soil Present? Yes <t< td=""><td></td><td></td><td></td><td>and an appropria</td><td>te landscap</td><td>be position i</td><td>must be pre</td><td>esent</td><td></td></t<>				and an appropria	te landscap	be position i	must be pre	esent	
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