WETLAND DETERMINATION DATA FORM - Alaska Region

Application Sample Point: SW13_T106_04 Investigator(s): MAD Larted (Intrace), hummocks etc.): Hillaide Investigator(s): MAD Larted (Intrace), hummocks etc.): Hillaide Subregion: Intrace, hummocks etc.): Hillaide MAD Massing (Intrace, hummocks etc.): Hillaide Subregion: Intrace, hummocks etc.): MAD Massing (Intrace, hummocks etc.): Massing (Intrace, hummocks etc.): Are Vegetation: Soli or Hydrobyto: Intrace, hummocks etc.): Massing (Intrace, hummocks etc.): Massing (Intrace, hummocks etc.): SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrobyto: Vegetation Present? Yes: No. Wetland Hydrobygin Present? Yes: No. Is the Sampled Area within a Wotland? Yes: No. 1. Place agliaros 0 Place Place Place Place Place 2. 0 0 Place	Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 03-Jul-13		
Investigator(s): WAD, B.A. Landtorm (hilling, terrace, hummods etc): Hillinge Local relief (concave, convex, none): fitt Slope:: 14.0 %/ 0.0 % Elevation: Total Concave, convex, none): fitt Stingtion: Initial Adata Mountains Lat:: 62.83884284 Long:: -148.57381677 Datum: WCG8541 Stingtion: Sold or Hydrology in significantly disturbed? Are Normal Circumstances' present? Yes ® No C Are Vegetation Sold or Hydrology in significantly disturbed? Are Normal Circumstances' present? Yes ® No C Hydrolytic Vegetation Present? Yes No ® Is the Sampled Area within a Wotland? Yes No ® Veetaat Hydrology Present? Yes No ® No ® Is the Sampled Area within a Wotland? No ® Veetaat Hydrology Present? Yes No ® Preside area within a Wotland? Yes No ® No ® Veetaat Hydrology Present? Yes No ® Presentation of the state of galiy. Yes area workset. Area workset. 1. Prece signica 0 FAU FAU FAU FAU Fau Fau Fau Fau Fau Fau Fau Fau Fau Fau	Applica	int/Owner: Alaska Energy Authority				Sampling Point: SW13_T106_04		
Local relief (concave, convex, none): fail Stope: 14.0 % / 6.0 * Elevation: ygg Subregion: interior Alaska Mountains Lat: 0.2 89386294 Long:: 14.0 \$% / 6.0 * Elevation: ygg Are identicity display in the site by pair of the site of year? Yes ● No ○ (fr.e., explain in Remarks) Are 'Nomal Circumstances' present? Yes ● No ○ Are Vegetation . Soil . or Hydrology Instantily problematic? (fr.e., explain in Remarks) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Is the Sampled Area within a Wetland? Yes ● No ● VEEGTATION - Use scientific names of plants. List all species in the plot. Trata ro @L, FACW, or fAW and the stop in the stop	Investig			Landform (hill	side, terrac	e, hummocks etc.): Hillside		
Subregion: Interior Alaska Mountains Lat. 62.88364224 Long: 148.573831677 Datum: Wildesification: Upplied Soil Mop Unit Name: MWI classification: Upplied Wildesification: Upplied Wildesification: Upplied Wildesification: Upplied Wildesification: Upplied Wildesification: Upplied Wildesification: Upplied No Upplied Yes<	Local r				%/ 8.0			
Sol Map Unit Name: Wit classification: Upland Vec elimital/systelogic conditions on the site typical for this time of year? Yes @ No @ No @ Wo @ (if no, explain in Remarks.) Are Vegetation		. ,	l at ·					
Are identicibydrologic conditions on the site typical for this time of year? Yes ● No ○ (if no, explain in Remarks.) Are Vegetation ○, Soil ○, or Hydrology ∩ anturally proteinentic? Are Thormal Circumstances' present? Yes ● No ○ Are Thormal Circumstances' present? Yes ● No ○ 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 ● Hydrophytic Vegetation Present? Yes ● No ○ Is the Sampled Area within a Wetland? Yes ● No ● Remarks: open white spruce forest at edge of guly. 97.2 D hebra hime Yes ● No ● Is the Sampled Area within a Wetland? VEGETATION - Use scientific names of plants. List all species in the plot. Treat North Action of Actio	-		Lat	02.003004204	•			
Are Vegetation , Soil , or Hydrology isignificantly disturbed? Are "Normal Circumstances" present? Yes ● No ○ Are Vegetation . Soil . or Hydrology Instruly problematic? (ff needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophyte Vegetation No ● Hydrophytic Soil Present? Yes ● No ● Is the Sampled Area writin a Wetland? Yes ● No ● Remarks: open white spruce forest at edge of gully. 955 photo num 15 photo num 15 photo num 16 photo time 1 Pice glauce 40 If Pice addition and species No ● No ● VEGETATION - Use scientific names of plants. List all species in the plot. Norther of Dominant Species Norther of Dominant Species 1 Pice addition and species 0 Provide of dominant Species Norther of Dominant Species 3 0 Prevalue of dominant Species Norther of Dominant Species Norther of Dominant Species 4 0 Provide of dominant Species Norther of Dominant Species Norther of Dominant Species 5 Total Number of Dominant Species Norther of Dominant Species Norther Status		•						
Hydric Soil Present? Yes No € with a Simpled Area Wetland Hydrology Present? Yes No € within a Wetland? Yes No € Remarks: open white spruce forest at edge of gully. 975 photo num 153 minute intervent 95 photo num 153 minute intervent Yes No € VEGETATION - Use scientific names of plants. List all species in the plot. Dominants interventsheet: Tree Stratum Mumber of Dominant Species That are ORL FACW, or FAC: 1 4 (A) 1 Pice glauca 0 -	Are V Are V	egetation , Soil , or Hydrology egetation , Soil , or Hydrology	significant naturally p	tly disturbed? problematic?	Are "N (If nee	lormal Circumstances" present? Yes $ullet$ No $igodot$ No $igodot$		
Hydric Soil Present? Yes No ● Is the Sampled Area Wetland Hydrology Present? Yes No ● within a Wetland? Yes No ● Remarks: open white spruce forest at edge of guily. 975 photo num 157 in horis time. Yes No ● Presenter Yes No ● VEGETATION - Use scientific names of plants. List all species in the plot. Dominant Indicator Number of Dominant Socies That are OBL FACW, or FAC: Togal kenes of Dominant & Indicator Number of Dominant Socies That are OBL FACW, or FAC: Togal kenes of Dominant & OBL FACW, or FAC: Togal % Cover of: Togal		Hydrophytic Vegetation Present? Yes • No)					
Wetland Hydrology Present? Yes No within a Wetland? Yes No Remarks: open white spruce forest at edge of gully. 95 20 hoton time Yes No Image: Spruce forest at edge of gully. 95 20 hoton time VEGETATION - Use scientific names of plants. List all species in the plot. Image: Spruce forest at edge of gully. 95 20 hoton time Image: Spruce forest at edge of gully. 96 Cover Spruce forest at edge of gully. 96 Cover Spruce forest at edge of gully. 97 Cover Spruce forest at edge of gully. 98 Cover 1 Proce glauca 40 Image: Spruce forest at edge of gully. 97 Cover Spruce forest at edge of gully. 98 Cover Spruce forest at edge of gully. 98 Cover Spruce forest at edge of gully. 99 Cover of Cover forest at edge of gully. 99 Cover of Cover forest at edge of gully. 90 Cover of Cover forest at edge of gully. 91 Cover of Brophytic Cover forest foresto		, , , , , , , , , , , , , , , , , , ,		ls	the Sam	ipled Area		
Remarks: Open while spuce forest at edge of gully. 975 photo num 15 20 hohrt time VEGETATION - Use scientific names of plants. List all species in the plot. Dominance Test worksheet: Number of Dominant Species 1. Picea glauca 0 FACU FACU FACU 2. 0 Cover Species 6 (4) 3. 0 Percent of dominant Species 6 (8) 4. 0 Percent of dominant Species 6 (8) 5. 0 0 Percent of dominant Species 6 (8) 7. Satus 0 Percent of dominant Species 66.7% (A) 5. Total Cover: 0 Percent of dominant Species 5 (A) 1. Satus bebbiana 50 FAC FACU FACU Species 11 × 2 = 22 1. Satus bebbiana 5 FACU FACU FACU Species 3 × 4 = 252 1. Satus bebbiana 5 FACU FACU Prevalence Index EdVa 5 1. Satus bebbiana 5 FACU Prevalence Index EdVa <td></td> <td>····</td> <td>~</td> <td>wi</td> <td>thin a W</td> <td colspan="3">/etland? Yes \bigcirc No \bigcirc</td>		····	~	wi	thin a W	/etland? Yes \bigcirc No \bigcirc		
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Absolute Dominant Indicator 1. Picea glauca 60 FACU 2. 0 FACU FACU 3. 0 FACU FACU 4. 0 FACU FACU 5. 0 Facu Facu 5. 0 Facu Facu 5. 0 Facu Facu 5. Total Cover: 0 Facu 5. Facu Facu Facu 5. Facu Facu Facu 5. Facu Facu Facu Facu 7. Salix bebbiana 50 Facu Facu Facu 7. Salix bebbiana 5 Facu Facu Facu Facu 7. Salix bebbiana 5 Facu UPL Species 0 2 1 Facu UPL Species 0 2 1 Facu UPL Speciola 1 <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>Dominance Test worksheet:</td>					•	Dominance Test worksheet:		
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3.								
4.				- 🖂				
5. 0 Prevalence Index worksheet: Sapling/Shrub Stratum 50% of Total Cover: 20 20% of Total Cover: 8 1. Salix bebbiana 50% of Total Cover: 20 20% of Total Cover: 8 2. Spiraea stevenii 5 FAC FAC FAC Vaccinium uliginosum 5 FAC 3. Vaccinium uliginosum 5 FAC FAC FAC VAC FAC Septies 0 x4 = 252 4. Rosa acicularis 5 FAC Vaccinium uliginosum 5 FAC UPL Species 0 x5 = 0 5. Vaccinium uliginosum 3 FAC Vaccinium vitis-idaea 3 FAC Vaccinium vitis-idaea 3 FAC 6. Linnaea borealis 3 FAC Prevalence Index = B/A = 3.315 8. 0 Indicators Vaccinium vitis-idaea 3.0 FAC 9. 0 Prevalence Index is 3.0 Prevalence Index is 3.0 Prevalence Index is 3.0 10. Vacinium annotinum 10 FAC Problematic Hydrophytic Vegetation ¹ (Explain) 11. <td< td=""><td></td><td></td><td></td><td>- 🖂</td><td></td><td></td></td<>				- 🖂				
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indect definition index index <td>3.</td> <td>Vaccinium uliginosum</td> <td>5</td> <td></td> <td>FAC</td> <td></td>	3.	Vaccinium uliginosum	5		FAC			
6. Linnaea borealis 3 $\begin{bmatrix} FACU \\ FAC \end{bmatrix}$ Prevalence Index: $\underline{103}$ (K) $\underline{197}$ (b) 7. Betula nana 2 $\begin{bmatrix} FACU \\ FAC \end{bmatrix}$ Prevalence Index: $\underline{135}$ 8. 0 0 0 Prevalence Index: $\underline{135}$ 9. 0 0 Prevalence Index: $\underline{1355}$ 10. Total Cover: $\underline{73}$ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 1. Sanguisorba canadensis 10 \boxed{FACU} Problematic Hydrophytic Vegetation ¹ (Explain) 2. Equisetum arvense 10 \boxed{FAC} Problematic Hydrophytic Vegetation ¹ (Explain) 3. Spinulum annotinum 10 \boxed{FAC} Problematic Hydrophytic Vegetation ¹ (Explain) 4. Cornus suecica 10 \boxed{FAC} Pot size (radius, or length x width) 10m 5. Equisetum sylvaticum 5 \boxed{FAC} Pot size (radius, or length x width) 10m 6. Carex podocarpa 2 \boxed{FAC} % Gover of Wetand Bryophytes (Where applicable) 0 7. Calamagrostis canadensis 2 \boxed{FAC} % Bare Ground	4.	Rosa acicularis	5	_	FACU	UPL Species x 5 =		
7. Betula nana 2	5.	Vaccinium vitis-idaea	3	_	FAC	Column Totals: 165 (A) 547 (B)		
7. Betula nana 2	6.	Linnaea borealis	3		FACU			
9. 0	7.	Betula nana	2		FAC	Prevalence index = $B/A = 3.315$		
10.	8.		0			Hydrophytic Vegetation Indicators:		
10. 0 □ □ Prevalence Index is ≤ 3.0 Herb Stratum 50% of Total Cover: 73 □ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) 1. Sanguisorba canadensis 10 ✓ FACW □ Problematic Hydrophytic Vegetation ¹ (Explain) 2. Equisetum arvense 10 ✓ FAC □ Problematic Hydrophytic Vegetation ¹ (Explain) 3. Spinulum annotinum 10 ✓ FAC □ Problematic Hydrophytic Vegetation ¹ (Explain) 4. Cornus suecica 10 ✓ FAC □ Plot size (radius, or length x width) 10m 5. Equisetum sylvaticum 5 FAC Plot size (radius, or length x width) 10m 6. Carex podocarpa 2 FAC Where applicable) 0 0 7. Calamagrostis canadensis 2 FAC Where applicable) 0 0 8. Valeriana capitata 1 FAC Yegetation 0 0 0 9. Aconitum delphinifolium 1 FAC FAC Hyd	9.		0			✓ Dominance Test is > 50%		
Herb Stratum 50% of Total Cover: 36.5 20% of Total Cover: 14.6 Imploting Consultability of the subporting data in Remarks or on a separate sheet) 1. Sanguisorba canadensis 10 Image: Solution of the subport of th	10.		0			□ Prevalence Index is ≤3.0		
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Total Cover: 52 Vegetation 50% of Total Cover: 26 20% of Total Cover: 10.4	-					Hydrophytic		
50% of Total Cover: <u>26</u> 20% of Total Cover: <u>10.4</u> Present? Yes No	10.							
				– % of Total Cover:	10.4			
	Rem							

Profile Description: (I Depth		he depth ne latrix	eded to docur	ment the ind		firm the ab		ators)		
(inches)	Color (moi	st)	%	Color (m	oist)	%	Type ¹	Loc ²	Texture	Remarks
0-1			100						Fibric Organics	
1-11	2.5Y	4/2	95	10YR	3/1	5	RM	PL	Sand	mixed matrix sandy silt loam inclusions 2.5y
									·	
						-		-		
¹ Type: C=Concent	ration. D=	Depletion.	RM=Reduc	ed Matrix	² Location	: PL=Por	e Lining. RC	=Root Cha	annel. M=Matrix	
							c Hydric So			
Hydric Soil Indic							4			
	Histosol or Histel (A1) Alaska Color Change (TA4) Alaska Gleyed Without Hue 5Y or Redder Histic Epipedon (A2) Alaska Alpine swales (TA5) Underlying Layer									ue 5Y or Redder
Histic Epipedor					a Redox W	•	,	Г	Other (Explain in Remar	ks)
Hydrogen Sulfi	. ,					101 2.51 1	lue			
Alaska Gleyed	. ,								mary indicator of wetland h	nydrology,
Alaska Gleyed				and an	appropriate	e landscap	pe position i	nust be pr	esent	
Alaska Gleyed	-)		4 Give d	etails of co	lor chang	e in Remark	S		
		/								
Restrictive Layer (if	. ,									? Yes 🔿 No 🖲
Type: seasonal									Hydric Soil Present	$:?$ Yes \cup No \bigcirc
Depth (inches): 11										
Remarks:										
no hydric soil indica	tors									
HYDROLOGY										
Wetland Hydrolog	gy Indicat	ors:							Secondary Indi	icators (two or more are required)
Primary Indicators		sufficient)						Water Stai	ined Leaves (B9)
Surface Water	(A1)			🗌 Inı	Indation Vis	sible on A	erial Image	ry (B7)	Drainage I	Patterns (B10)
High Water Ta	ble (A2)			Sp.	arsely Vege	etated Cor	ncave Surfa	ce (B8)		Rhizospheres along Living Roots (C3)
Saturation (A3	,				rl Deposits	. ,			_	of Reduced Iron (C4)
Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5)										
Sediment Dep					/-Season W		• •		_	Stressed Plants (D1)
Drift Deposits	. ,			Otl	ner (Explair	n in Rema	irks)			ic Position (D2)
Algal Mat or Crust (B4) Shallow Aquitard (D3)										
Iron Deposits (B5) Microtopogr Surface Soil Cracks (B6) FAC-neutral								graphic Relief (D4)		
										ar rest (D5)
Field Observation		Vec C	No 🖲	De	nth (inchor	-).				
Surface Water Pres					pth (inches			\ \ /~+!-	nd Uudvalarus Duarra	
Water Table Prese		_	_	De	pth (inches	5):		wetia	nd Hydrology Presen	nt? Yes 🔾 No 🖲
Saturation Present (includes capillary	fringe)		No 🖲		pth (inches	·				
Describe Recorded	Data (strea	m gauge,	monitor we	ll, aerial pl	notos, prev	ious inspe	ection) if ava	ailable:		
Remarks:										
no primary wetland hydrology indicators observed										