## WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Во	rough/City:	Denali Bo	rough Sampling Date: 06-Aug-12
Applica	int/Owner: Alaska Energy Authority				-	Sampling Point: SW12_T04_08
	gator(s): CTS, EKJ		L	andform (hills	side, terrac	e, hummocks etc.): Footslope
	elief (concave, convex, none): flat			Slope:	% / 12.7	-
_	ion : Interior Alaska Mountains	La	ı <u>6</u>	3.452838207	5	
	p Unit Name:				<u> </u>	NWI classification: Upland
	natic/hydrologic conditions on the site typical for this		•		● No ○	(If no, explain in Remarks.)
	egetation . , Soil . , or Hydrology	-	-	disturbed?		ormal Circumstances" present? Yes  ● No ○
Are V	egetation . , Soil . , or Hydrology	natura	lly pro	blematic?	(If nee	ded, explain any answers in Remarks.)
SUMN	MARY OF FINDINGS - Attach site map sh	nowing	samı	oling point	locations	, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes O No			<u> </u>		· · · · ·
	( ) p, german			ls '	the Sam	pled Area
	^			wi	thin a W	etland? Yes ○ No ⊙
Rema				ļ		
T CITIC	into.					
VE 0 F	TATION					
VEGE	<b>ETATION</b> - Use scientific names of plants.	List all	spec	cies in the i	olot.	Dominance Test worksheet:
	Church	Abso % Co		Dominant Species?	Indicator Status	Number of Dominant Species
	e Stratum Picea glauca	-70 CC	3		FACU	That are OBL, FACW, or FAC:1(A)
2.			0		- TACO	Total Number of Dominant
3.			0			Species Across All Strata:3 (B)
4.			0			Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
5.			0	П		
	Total Cov	— - ver:	3			Prevalence Index worksheet:  Total % Cover of: Multiply by:
San	ling/Shrub Stratum 50% of Total Cover:			of Total Cover:	0.6	0.00
	Alnus viridis		85	<b>V</b>	FAC	
2.	Ribes triste		15		FAC	
3.	Salix glauca		3		FAC	
4.	Salix barclayi		3		FAC	
5.	Picea glauca				FACU	Column Totals: <u>146.1</u> (A) <u>470.4</u> (B)
6.	Arctous alpinus		2		FACU FAC	Prevalence Index = B/A = 3.220
7. 8.	Salix reticulata Empetrum nigrum		1		FAC	Hudronhutia Vacatation Indicators
	Dasiphora fruticosa		1		FAC	Hydrophytic Vegetation Indicators:  Dominance Test is > 50%
	Vaccinium uliginosum		1		FAC	Prevalence Index is ≤3.0
10.	Total Cov	— - Yer: 1	16			
Her	<b>b Stratum</b> 50% of Total Cover:	58		of Total Cover:	23.2	<ul> <li>Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>
1.	Chamaenerion angustifolium		10	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2.	Boykinia richardsonii		4	$\checkmark$	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3.	Anemone parviflora		3		FACU	be present, unless disturbed or problematic.
4.	Equisetum pratense		3		FACW	Disk size (and its an invalid to the control of the
5.	Carex scirpoidea		2		FACU	
6.	Festuca rubra		2		FAC	(Where applicable)
7.	Solidago canadensis	_ [	1		UPL	% Bare Ground
8.	Mertensia paniculata		1		FACU	Total Cover of Bryophytes 15
9.	Spinulum annotinum		1		FACU	
10.	Dryopteris expansa		0.1		FACU	Hydrophytic
	Total Cov		7.1_	_		Vegetation
	50% of Total Cover:	13.55	20% c	of Total Cover:	5.42	Present? Yes UNO S
3. 4. 5. 6. 7. 8. 9.	Anemone parviflora  Equisetum pratense Carex scirpoidea Festuca rubra Solidago canadensis Mertensia paniculata Spinulum annotinum Dryopteris expansa	er: 2	3 2 2 1 1 1 0.1 7.1 20% c	of Total Cover:	FACU FACU FAC UPL FACU FACU FACU FACU FACU FACU	Plot size (radius, or length x width)  % Cover of Wetland Bryophytes (Where applicable)  % Bare Ground  Total Cover of Bryophytes  Hydrophytic Vegetation Present?  Yes  No  10m  15  15  15  No

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SOIL Sampling Point: SW12\_T04\_08

Water Table Present?	95% 95% 100% 4/1 100% 3/1 90%		Pore Lining. RC=Inatic Hydric Soil (TA4) (TA5) 5Y Hue phytic vegetation, scape position mu	Root Channe	Texture Fibric Organics Flemic		
1-4 4-7 7-8	95% 100% 4/1 100% 3/1 90%	Indicators for Problem  Alaska Color Change  Alaska Alpine swales  Alaska Redox With 2.  3 One indicator of hydrogand an appropriate land	Pore Lining. RC=1  A (TA4) (TA5)  5Y Hue  phytic vegetation, scape position mu	Root Channe	Hemic Organics Sapric Organics Loamy Silt Loamy Silt el. M=Matrix  llaska Gleyed Without Hunderlying Layer	5% roots  few roots  few angular gravels  few angular gravels  few angular gravels  ue 5Y or Redder	
4-7  7-8  5Y  4/3  8-19  N  3/3  Type: C=Concentration. D=Depter    Hydric Soil Indicators:  Histosol or Histel (A1)  Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Thick Dark Surface (A12)  Alaska Gleyed (A13)  Alaska Gleyed (A13)  Alaska Gleyed Pores (A15)  Restrictive Layer (if present):  Type: Depth (inches):  Remarks: O hydric soil indicators. N 3/1 doe concentrations are distinct masses chist at center, others hard masse chist at center, others hard masse chit very sharp boundaries.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (any one is suffer   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)  Field Observations:  Surface Water Present?  Water Table Present?	100% 1/1 100% 3/1 90%	Indicators for Problem  Alaska Color Change  Alaska Alpine swales  Alaska Redox With 2.  3 One indicator of hydrogand an appropriate land	Pore Lining. RC=1  A (TA4) (TA5)  5Y Hue  phytic vegetation, scape position mu	Root Channe  Is:  Al  Ui  Oi  one primary	el. M=Matrix  Jlaska Gleyed Without Hunderlying Layer	few roots few angular gravels few angular gravels  ue 5Y or Redder	
7-8   5Y   4/3  8-19   N   3/3  1 Type: C=Concentration. D=Deplet    Hydric Soil Indicators:  Histosol or Histel (A1)  Histic Epipedon (A2)  Hydrogen Sulfide (A4)  Thick Dark Surface (A12)  Alaska Gleyed (A13)  Alaska Gleyed Pores (A15)  Destrictive Layer (if present):  Type: Depth (inches):  Depth (inches):  Demarks:  O hydric soil indicators. N 3/1 doe oncentrations are distinct masses chist at center, others hard masses with very sharp boundaries.  HYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (any one is suffice Surface Water (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)  Field Observations:  Surface Water Present?  Water Table Present?	1/1 100%	Indicators for Problem  Alaska Color Change  Alaska Alpine swales  Alaska Redox With 2.  3 One indicator of hydrogand an appropriate land	Pore Lining. RC=1  A (TA4) (TA5)  5Y Hue  phytic vegetation, scape position mu	Root Channe	el. M=Matrix  laska Gleyed Without Hunderlying Layer	few angular gravels  few angular gravels  ue 5Y or Redder	
**No **3/: **No **1/: **No **No **1/: **No **	90%	Indicators for Problem  Alaska Color Change  Alaska Alpine swales  Alaska Redox With 2.  3 One indicator of hydrogand an appropriate land	Pore Lining. RC=1  A (TA4) (TA5)  5Y Hue  phytic vegetation, scape position mu	Root Channe	el. M=Matrix llaska Gleyed Without Hu	few angular gravels  Lie 5Y or Redder	
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Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A14) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: O hydric soil indicators. N 3/1 doe concentrations are distinct masses chist at center, others hard masse chist at center, others hard masse with very sharp boundaries.  IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient of the 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) Field Observations: Surface Water Present? Water Table Present?		and an appropriate land	scape position mu			5)	
Alaska Redox (A14) Alaska Gleyed Pores (A15) Restrictive Layer (if present): Type: Depth (inches): Remarks: O hydric soil indicators. N 3/1 doe concentrations are distinct masses chist at center, others hard masse chist at center, others hard masse with very sharp boundaries.  IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (any one is sufficient of the 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) Field Observations: Surface Water Present? Water Table Present?		and an appropriate land	scape position mu				
Alaska Gleyed Pores (A15)  Restrictive Layer (if present): Type: Depth (inches):  Remarks: No hydric soil indicators. N 3/1 doe concentrations are distinct masses with very sharp boundaries.  IYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (any one is suftended by Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Water Present?  Water Table Present?				ict ha nracar		ydrology,	
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Type: Depth (inches):  Remarks: In hydric soil indicators. N 3/1 doe concentrations are distinct masses chist at center, others hard masse with very sharp boundaries.  IYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (any one is suftended by 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)  Field Observations: Surface Water Present? Water Table Present?			ange in Remarks				
Depth (inches):  Jemarks:  o hydric soil indicators. N 3/1 doe oncentrations are distinct masses chist at center, others hard masse in the very sharp boundaries.  JYDROLOGY  Wetland Hydrology Indicators: Primary Indicators (any one is suftended)  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)  Field Observations:  Surface Water Present?  Water Table Present?							
Algal Mat or Crust (B4)  Drift Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Surface Water (A1)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Surface Water Present?				Н	lydric Soil Present?	? Yes ○ No •	
o hydric soil indicators. N 3/1 doe concentrations are distinct masses chist at center, others hard masses this at center, others hard masses with very sharp boundaries.    YDROLOGY							
Wetland Hydrology Indicators:  Primary Indicators (any one is suf 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)  Field Observations: Surface Water Present? Water Table Present?							
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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) Field Observations: Surface Water Present? Water Table Present?	ufficient)				Water Stair	ned Leaves (B9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present?		Inundation Visible of		. ,	Drainage Patterns (B10)		
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present?		Sparsely Vegetated	Concave Surface	(B8)	Oxidized Rhizospheres along Living Roots (C3)		
Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present? Ye		Marl Deposits (B15)	)		Presence of Reduced Iron (C4)		
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present? Ye		Hydrogen Sulfide O			Salt Deposits (C5)		
Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present? Ye		☐ Dry-Season Water <sup>-</sup>			Stunted or Stressed Plants (D1)		
Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present?  Water Table Present?  Ye		Other (Explain in Re	emarks)		Geomorphic Position (D2)		
Surface Soil Cracks (B6)  Field Observations:  Surface Water Present?  Water Table Present?  Ye					Shallow Aq	` '	
Field Observations: Surface Water Present?  Water Table Present?  Ye					= ' '	raphic Relief (D4)	
Surface Water Present? Ye Water Table Present? Ye					☐ FAC-neutra	l Test (D5)	
Water Table Present? Ye							
	Yes O No 💿	Depth (inches):					
Caturation Dragont?		Depth (inches):		Wetland	Hydrology Present	t? Yes O No 💿	
Saturation Present? (includes capillary fringe)	Yes O No 💿	Depth (inches):					
Describe Recorded Data (stream g	Yes O No O	l, aerial photos, previous ir	nspection) if availa	able:			
Remarks:	Yes O No •						
	Yes O No •						
o wetland hydrology indicators	Yes O No •						

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