WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project	Borough/City:	Matanuska-Susitna Borough	Sampling Date: 06-Aug-13
Applicant/Owner: Alaska Energy Authority		Sampling	g Point: SW13_T161_02
Investigator(s): BAB	Landform (hills	ide, terrace, hummocks etc.):	Gulch or Gully
Local relief (concave, convex, none): concave	Slope: 40.4	% / 22.0 ° Elevation: 1348	•
Subregion : Interior Alaska Mountains Lat.:	63.329971069	5 Long.: -148.5182714	09 Datum: WGS84
Soil Map Unit Name:		NWI classifi	ication: R3UBH
	ar? Yes (itly disturbed? problematic?	No (If no, explain in F Are "Normal Circumstances" p (If needed, explain any answe	present? Yes 💿 No 🔾
SUMMARY OF FINDINGS - Attach site map showing sa	mpling point l	ocations, transects, importa	ant features, etc.

Hydrophytic Vegetation Present?YesNoHydric Soil Present?YesNoWetland Hydrology Present?YesNo	Is the Sampled Area within a Wetland? Yes \odot No \bigcirc
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Remarks: bed consists of angular cobbles and gravel , three feet wide on average. bbg banks, cobbles and bedrock

VEGETATION - Use scientific names of plants. List all species in the plot.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum	% Cover	Species?	Status	Number of Dominant Species
1.	0			That are OBL, FACW, or FAC: (A)
2.	0		. <u></u>	Total Number of Dominant Species Across All Strata: 0 (B)
3.				Percent of dominant Species
4.				That Are OBL, FACW, or FAC: 0.0% (A/B)
5.	0			Prevalence Index worksheet:
Total Cove	r: 0			Total % Cover of: Multiply by:
Sapling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	OBL Species $0 \times 1 = 0$
1	0			FACW Species 0 x 2 = 0
2.	٥			FAC Species x 3 =
3.				FACU Species x 4 =
4.				UPL Species $0 \times 5 = 0$
5.	0			Column Totals: 0 (A) 0 (B)
6	0			
7				Prevalence Index = B/A =0.000
8				Hydrophytic Vegetation Indicators:
9				Dominance Test is > 50%
10.				Prevalence Index is ≤3.0
Total Cove				Morphological Adaptations ¹ (Provide supporting data in
Herb Stratum 50% of Total Cover:	0 20%	of Total Cover:	0	Remarks or on a separate sheet)
1	0			Problematic Hydrophytic Vegetation ¹ (Explain)
2	0			¹ Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4.	0			Plot size (radius, or length x width) 10m
5	0			% Cover of Wetland Bryophytes
6				(Where applicable)
7	0			% Bare Ground
8				Total Cover of Bryophytes 5
9				
10				Hydrophytic
Total Cove	r: <u>0</u>			Vegetation
50% of Total Cover:	0 20%	of Total Cover:	00	Present? Yes No
Remarks: bare ground is water, unvegetated active cha	nnel.			

Depth (inches)	Matrix		Rec	nfirm the absence of indi lox Features			
. ,	Color (moist)	%	Color (moist)	<u>%</u> <u>Type</u> ¹	2	Texture	Remarks
					·		
Type: C=Con	centration. D=Depleti	on. RM=Reduc	ed Matrix ² Location	n: PL=Pore Lining. R	C=Root Chann	el. M=Matrix	
ydric Soil Ir	dicators		Indicators for Pr	oblematic Hydric S	oils ³		
Histosol or			Alaska Color Cl	4		laska Gleyed Without Hue 5	Y or Redder
Histic Epipe	. ,		Alaska Alpine s			Inderlying Layer	
	Sulfide (A4)		Alaska Redox V	Vith 2.5Y Hue	✓ c	Other (Explain in Remarks)	
Thick Dark	Surface (A12)						
Alaska Gley	/ed (A13)		One indicator of and an appropriat	hydrophytic vegetati e landscape position	on, one primar must be prese	ry indicator of wetland hydro ent	ology,
Alaska Red	. ,			olor change in Remar			
Alaska Gley	ed Pores (A15)				K3		
estrictive Laye	r (if present):						
Type:					ŀ	lydric Soil Present?	Yes 🔍 No 🔾
Depth (inch	es):						
emarks:							
	assume hydric soil						
ctive channel, a							
tive channel, s						_Secondary Indicato	rs (two or more are required)
tive channel, YDROLO(Yetland Hydr rimary Indicat	GY ology Indicators: .ors (any one is sufficie	ent)				Water Stained	Leaves (B9)
tive channel, (DROLO) etland Hydr rimary Indicat Surface W	GY ology Indicators: cors (any one is sufficie ater (A1)	ent)	_	isible on Aerial Imago	, , ,	Water Stained	Leaves (B9) rns (B10)
(DROLO etland Hydr imary Indicat Surface W High Wate	GY ology Indicators: ors (any one is sufficient ater (A1) r Table (A2)	ent)	Sparsely Veg	etated Concave Surfa	, , ,	Water Stained Water Stained Drainage Patte Oxidized Rhizo	Leaves (B9) rns (B10) spheres along Living Roots (C3)
Image: Arror Stress Image: Arror Stress Image: Arrow Stres Image: Arrow Stres	GY ology Indicators: ors (any one is sufficient ater (A1) r Table (A2) (A3)	ent)	Sparsely Veg	etated Concave Surfa 6 (B15)	, , ,	Water Stained Drainage Patte Oxidized Rhizo Presence of Re	Leaves (B9) rns (B10) spheres along Living Roots (C3) duced Iron (C4)
tive channel, (DROLO) etland Hydr rimary Indicat Surface W High Wate Saturation Water Mar	GY ology Indicators: ors (any one is sufficient ater (A1) r Table (A2) (A3)	ent)	Sparsely Veg Marl Deposits Hydrogen Su	etated Concave Surfa 6 (B15)	, , ,	Water Stained Drainage Patte Oxidized Rhizo Presence of Re Salt Deposits (Leaves (B9) rns (B10) spheres along Living Roots (C3) duced Iron (C4)
tive channel, YDROLOO Yetland Hydr rimary Indicat Surface W High Wate Saturation Water Mar	GY ology Indicators: cors (any one is sufficie ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	ent)	Sparsely Veg Marl Deposits Hydrogen Su Dry-Season V	etated Concave Surfa s (B15) Ifide Odor (C1)	, , ,	Water Stained Drainage Patte Oxidized Rhizo Presence of Re Salt Deposits (Leaves (B9) rns (B10) spheres along Living Roots (C3) duced Iron (C4) C5) essed Plants (D1)
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tive channel, YDROLOO /etland Hydr rimary Indicat Surface W High Wate Saturation Water Mar Sediment Drift Depo Algal Mat of Iron Depo	GY ology Indicators: cors (any one is sufficient ater (A1) r Table (A2) (A3) (A3) (ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5)	ent)	Sparsely Veg Marl Deposits Hydrogen Su Dry-Season V	etated Concave Surfa 5 (B15) Ifide Odor (C1) Vater Table (C2)	, , ,	Water Stained Drainage Patter Oxidized Rhizo Presence of Re Salt Deposits (Stunted or Stree Geomorphic Pec Shallow Aquita Microtopograp	Leaves (B9) rns (B10) spheres along Living Roots (C3) duced Iron (C4) C5) essed Plants (D1) osition (D2) rd (D3) hic Relief (D4)
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