WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site:	Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 05-Aug-12								
Applicant/Ow	ner: Alaska Energy Authority				Sampling Point: SW12_T34_09								
nvestigator(s			Landform (hill	side, terrac	ce, hummocks etc.): Swale								
_ocal relief (c	oncave, convex, none): concave		Slope: 5.2	% / 3.0	° Elevation: 1100								
Subregion :	Southcentral Alaska	Lat	 62.89420491		Long.: -148.679269977 Datum: WGS84								
-		Luti	02.03420431										
Soil Map Unit	-			No ○	NWI classification: PEM1E								
Are Vegetat Are Vegetat	on	significa naturally owing sa	ntly disturbed? problematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.								
	Hydrophytic Vegetation Present? Yes No Sign Is the Sampled Area												
Hydric	Soil Present? Yes No	/etland? Yes ● No ○											
Wetla	nd Hydrology Present? Yes No	\circ	•	tiiii a vv	Ctiana:								
	PEM1E wetland with flowing water. substrate ON -Use scientific names of plants.				h through ca 3-4 in organics to rest on cobbles-boulders.								
		Absolu	te Dominant	Indicator	Dominance Test worksheet:								
Tree Strat	ım_	% Cov		Status	Number of Dominant Species								
1.		()		That are OBL, FACW, or FAC:3 (A)								
2.		(Total Number of Dominant Species Across All Strata: 3 (B)								
3.		(Percent of dominant Species								
4.			<u> </u>		That Are OBL, FACW, or FAC: 100.0% (A/B)								
5		(<u> </u>		Prevalence Index worksheet:								
	Total Cov	er: <u> </u>	_		Total % Cover of: Multiply by:								
Sapling/SI	nrub Stratum 50% of Total Cover:	0 2	0% of Total Cover	0	OBL Species x 1 =								
1.		(FACW Species 2 x 2 = 4								
)		FAC Species x 3 =0								
_					FACU Species								
					UPL Species x 5 =0								
)		Column Totals:								
			<u> </u>										
7		,	<u> </u>		Prevalence Index = B/A = 1.028								
8		(Hydrophytic Vegetation Indicators:								
9			_		✓ Dominance Test is > 50%								
10			<u> </u>		✓ Prevalence Index is ≤3.0								
Herb Strat	Total Cov um 50% of Total Cover:		20% of Total Cover	: 0	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)								
1. Eriop	norum angustifolium	3		OBL	Problematic Hydrophytic Vegetation (Explain)								
	phorum caespitosum	1		OBL	¹ Indicators of hydric soil and wetland hydrology must								
·	rotundata		<u> </u>	OBL	be present, unless disturbed or problematic.								
	aquatilis		<u> </u>	OBL	Plot size (radius, or length x width)								
· -	fuscescens			FACW	% Cover of Wetland Bryophytes								
					(Where applicable)								
					% Bare Ground								
					Total Cover of Bryophytes								
10	Total Cov				Hydrophytic								
	Total Cov 50% of Total Cover:		— 0% of Total Cover	1/1/1	Vegetation Present? Yes ● No ○								

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SOIL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators)

Depth Matrix Redox Features

(inches) Color (moist) % Color (moist) % Type 1 Loc 2 Texture Remarks

	(Describe to the d Mat ı		ed to docu	ment the indicator or con Red	firm the ab lox Featu		ators)			
Depth (inches)	Color (moist)		%	Color (moist)	%	Type ¹	_Loc_2	Texture	Remarks	
					-					
								-		
1 Type: C-Concen	ntration D-Den	letion D	M-Peduc	ed Matrix ² Location	• DI – Dore	- Lining PC	`-Poot Cha	nnel M-Matriy		
		iction. IX	in-Reduc					Tillel. PI-Piduix		
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils: Alaska Color Change (TA4)				Alaska Gleyed Without Hue 5Y or Redder			
Histosol or Histel (A1) Histic Epipedon (A2)			Alaska Alpine swales (TA5)				Underlying Layer			
✓ Hydrogen Sulf				Alaska Redox With 2.5Y Hue				Other (Explain in Remarks)		
Thick Dark Su					2.51 1	iac		、 1	,	
Alaska Gleyed	. ,							nary indicator of wetland h	ydrology,	
Alaska Redox				and an appropriate	e ianascap	e position r	nust be pre	esent		
Alaska Gleyed	Pores (A15)			⁴ Give details of co	lor chang	e in Remark	S			
Restrictive Layer (if	f present):									
Type:								Hydric Soil Present	? Yes 💿 No 🔾	
Depth (inches)	:									
HYDROLOGY										
Wetland Hydrolo		:						_Secondary Indi	cators (two or more are required)	
Primary Indicators									ned Leaves (B9)	
✓ Surface Wate	er (A1)			Inundation Vi	sible on A	erial Image	ry (B7)	Drainage F	Patterns (B10)	
High Water T	able (A2)			Sparsely Vege	etated Cor	ncave Surfac	ce (B8)	Oxidized R	hizospheres along Living Roots (C3)	
Saturation (A3)				Marl Deposits (B15)					of Reduced Iron (C4)	
Water Marks						its (C5)				
	☐ Sediment Deposits (B2) ☐ Dry-Season Water Table (C2)								Stressed Plants (D1)	
☐ Drift Deposits☐ Algal Mat or (U Other (Explain	n in Rema	rks)		Geomorphic Position (D2) Shallow Aquitard (D3)		
✓ Iron Deposits								_	graphic Relief (D4)	
Surface Soil C								✓ FAC-neutra		
Field Observatio										
Surface Water Pre	esent? Y	$_{es}$ \bigcirc	No 💿	Depth (inches	s): 3					
Water Table Prese	ent? Y	es 🔾	No •	Depth (inches	s).		Wetla	nd Hydrology Presen	t? Yes • No O	
Saturation Presen	it? v	es O		Depth (inches	,			,		
(includes capillary	/ Tringe)					oction) if a	vilable:			
Describe Recorded	Data (stream g	jauge, m	ionitor we	ell, aerial photos, prev	ious inspe	ection) ir ava	aliable:			
Remarks:										
H2S odor from walking through wetland. iron floc on sediments.										

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