WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 30-Jul-12
Applica	nt/Owner: Alaska Energy Authority				Sampling Point: SW12_T49_03
Investig	gator(s): SLI, KMK		Landform (hill	side, terrac	ze, hummocks etc.): Flat
Local r	elief (concave, convex, none): none		Slope:	%/ 1.5	5 ° Elevation: 707
	ion : Interior Alaska Mountains	L at :	 62.814346464		Long.: -148.427345723 Datum: NAD83
-		Lat	02.014340404	ю	
	p Unit Name:			0 0	NWI classification: PEM1/SS1E
Are V Are V	egetation , Soil , or Hydrology r	significan naturally p ving sa	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes $ullet$ No $igcap$)		41	where the second
	Hydric Soil Present? Yes ● No C)			pled Area /etland? Yes ● No ◯
	Wetland Hydrology Present? Yes No C)	wi	thin a W	etland? Tes \bigcirc No \bigcirc
Rema	arks: this portion of wetland is drier/shrubbier than to t	he east.	Plot centered ar	round emer	gent vegetation visible in aerial.
	TATION - Use scientific names of plants. Li	st all sp Absolute % Cove	e Dominant	plot. Indicator Status	Dominance Test worksheet: Number of Dominant Species
1.	e Stratum	<u>-% Cove</u> 0		Status	That are OBL, FACW, or FAC: <u>4</u> (A)
2.					Total Number of Dominant
3.		0	- 🖂		Species Across All Strata: (B)
4.		0	-		Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. 5.			- 🖂		
5.	Total Cover:	0	_		Prevalence Index worksheet:
6			— % of Total Cover:	0	Total % Cover of: Multiply by:
sap	ling/Shrub Stratum 50% of Total Cover:	0 20		0	OBL Species 41.1 x 1 = 41.1
1.	Betula nana	30		FAC	FACW Species $28 \times 2 = 56$
2.	Salix pulchra	10		FACW	FAC Species 37 x 3 = 111
3.	Dasiphora fruticosa	1		FAC	FACU Species $1 \times 4 = 4$
4.	Empetrum nigrum	1	_	FAC	UPL Species x 5 =
5.	Andromeda polifolia (IAM)	1	_	OBL	Column Totals: <u>107.1</u> (A) <u>212.1</u> (B)
6.	Picea mariana	3		FACW	Prevalence Index = B/A = 1.980
7.		0			
8.		0			Hydrophytic Vegetation Indicators:
9.		0			✓ Dominance Test is > 50%
10.		0			✓ Prevalence Index is ≤3.0
Her	Total Cover: <u>50% of Total Cover:</u>			: 9.2	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1.	Equisetum palustre	10	\checkmark	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
2.	Eriophorum angustifolium	30	\checkmark	OBL	¹ Indicators of hydric soil and wetland hydrology must
3.	Carex canescens (IAM)	5		FAC	be present, unless disturbed or problematic.
4.	Carex magellanica	2		OBL	Plot size (radius, or length x width) 10m
5.	Eriophorum russeolum	5	_	FACW	Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes
6.	Carex aquatilis	5		OBL	(Where applicable)
7.	Carex gynocrates	1		OBL	% Bare Ground35
8.	Moneses uniflora	1		FACU	Total Cover of Bryophytes 60
9.	Comarum palustre	2		OBL	
10.	Carex livida	0.1		OBL	Hydrophytic
	Total Cover:				Vegetation Present? Yes • No ·
	50% of Total Cover:3	0.55 20	% of Total Cover:	12.22	Present? Yes • No U
Rem	arks: bare ground include standing water. trace care	x limosa.	trace caraur. c	argyn may l	be carsci

	•	depth needed to do trix	ocument the indicator or co Re	onfirm the ab		ators)				
Depth (inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks		
			·							
	· ·		·							
	·		,				- <u>-</u>			
	,		· ·							
1 		DM-Dec	- Alertin 2 Looptic		Lining D(Deat Chr		-		
- Type: C=Con		pletion. RM=Rec	duced Matrix ² Locatio		-		annel. M=Matrix			
Hydric Soil Ir	dicators:		Indicators for P		4	oils:	_			
Histosol or	Histosol or Histel (A1)			Change (TA		L	Alaska Gleyed Without Hue 5Y or Redder			
Histic Epipe			Alaska Alpine	-	-		Underlying Layer Other (Explain in Remarks)			
	Sulfide (A4)		Alaska Redox	With 2.5Y I	Hue	L v _		5)		
	Surface (A12)		³ One indicator o	f hydrophy	tic vegetatic	on, one prir	mary indicator of wetland h	ydrology,		
Alaska Gley			and an appropria	ite landsca	pe position r	must be pr	esent			
	ved Pores (A15)		⁴ Give details of color change in Remarks							
Restrictive Laye	r (if present):						Hydric Soil Present? Yes No			
Type: Depth (inches):							Hydric Soil Present? Yes \odot No \bigcirc			
						1				
Remarks:	assuma hydric ca	ile due to standir	a water and hydrophy	tic voqetat	ion					
site inunualeu,	assume nyunc so	IIS due to stanuii	ng water and hydrophy	tic vegetati	ion.					
HYDROLO										
-	ology Indicato							cators (two or more are required)		
	ors (any one is s	ufficient)					Water Stained Leaves (B9)			
Surface W	. ,									
				-	ncave Surfa	ce (B8)		hizospheres along Living Roots (C3)		
Saturation (A3) Marl Deposits (B15)					(01)		_	f Reduced Iron (C4)		
Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Dry-Season Water Table (C2)						Salt Deposits (C5) Stunted or Stressed Plants (D1)				
Drift Deposits (B2)					. ,		_	ic Position (D2)		
_	or Crust (B4)				irks)		Shallow Aquitard (D3)			
Iron Depos							Microtopographic Relief (D4)			
	oil Cracks (B6)					 FAC-neutral Test (D5) 				
Field Observa	. ,									
Surface Water	Present?	Yes 💿 No 🤇	Depth (inch	es): 4						

Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Depth (inches):

Depth (inches):

Yes 🔿 No 🖲

 $_{\rm Yes} \odot _{\rm No} \odot$

Remarks:

Water Table Present?

Saturation Present? (includes capillary fringe)

iron floc and biogenic sheen in areas w standing water

Yes 💿 No 🔾