WETLAND DETERMINATION DATA FORM - Alaska Region

Projec	/Site: Susitna-Watana Hydroelectric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 07-Jul-13		
Applic;	ant/Owner: Alaska Energy Authority				Sampling Point: SW13_T102_04		
nvesti	gator(s): SLI. SCB		Landform (hill	side, terrac	e, hummocks etc.): Hillside		
	elief (concave, convex, none): none		Slope:	%/ 8.1	Elevation: 852		
	ion : Interior Alaska Mountains	Lat ·	62.705748557		Long.: -147.581107975 Datum: NAD83		
		Lat	02.703740337	0			
	p Unit Name:			<u> </u>	NWI classification: Upland		
Are \ Are \	regetation , Soil , or Hydrology	significantly naturally pr wing sam	y disturbed? oblematic?	(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 No	npled Area					
	Hydric Soil Present? Yes O No			thin a W			
	Wetland Hydrology Present? Yes O No Garks: small upland inclusion on otherwise wetland hills						
/EGI	TATION - Use scientific names of plants. Li				Dominance Test worksheet:		
Tre	e Stratum	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species		
1.	- Stratum	0			That are OBL, FACW, or FAC: (A)		
2.		0			Total Number of Dominant		
3.		0			Species Across All Strata:(B)		
4.		0			Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)		
5.		0					
	Total Cover				Prevalence Index worksheet: Total % Cover of: Multiply by:		
Sar	ling/Shrub Stratum 50% of Total Cover:		of Total Cover:	0			
1.	Spiraea stevenii			FACU			
2.	Betula glandulosa			FAC			
3.	Salix pulchra	0.1		FACW			
4.	Vaccinium uliginosum			FAC	UPL Species x 5 =		
5.	Picea glauca			FACU	Column Totals: <u>82.4</u> (A) <u>252.3</u> (B)		
6.					Prevalence Index = B/A =		
7.							
8.		0			Hydrophytic Vegetation Indicators:		
					Dominance Test is > 50%		
10.		0			Prevalence Index is ≤3.0		
Hei	Total Cover b Stratum 50% of Total Cover:		6 of Total Cover	: 1.46	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1.	Calamagrostis canadensis	70	\checkmark	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)		
	Equisetum sylvaticum	5		FAC	¹ Indicators of hydric soil and wetland hydrology must		
3.	Chamaenerion angustifolium	0.1		FACU	be present, unless disturbed or problematic.		
4.	Mertensia paniculata	0.1		FACU	Plot size (radius, or length x width) <u>10m</u>		
5.	Petasites frigidus			FACW	% Cover of Wetland Bryophytes		
6.					(Where applicable)		
-					% Bare Ground		
		0			Total Cover of Bryophytes10		
8.							
8. 9.		0					
8. 9.		0			Hydrophytic		
8. 9.		0 0 :					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features														
Depth (inches)	olor (moist) %		Color (moist)		%	<u>%</u> Type ¹		Texture	Remarks					
0-2	2.5Y	4/2	100					<u>Loc</u> ²	Loamy Sand					
2-6	2.5Y	4/2	80	7.5YR	4/4	20	C	PL	Silty Clay Loam					
6-7	2.5Y	4/2	90	7.5YR	4/4	10	C	PL	Sandy Loam					
7-10 1	LOYR	2/1	100						Sapric Organics					
10-20	2.5Y	3/2	90	7.5YR	3/3	5	с	PL	Silty Clay Loam	5% organic inclusions				
	,				·	-								
·														
17		D. J. P.			2					-				
¹ Type: C=Concentration. D=Depletion. RM=Reduced Matrix ² Location: PL=Pore Lining. RC=Root Channel. M=Matrix														
Hydric Soil Indica	Hydric Soil Indicators: Indicators for Problematic Hydric Soils: ³													
Histosol or Histe	el (A1)				ka Color Ch		,		Alaska Gleyed Without Hue 5Y or Redder Underlying Layer					
Histic Epipedon					ka Alpine sv	-	-		Other (Explain in Remar					
Hydrogen Sulfid	• •				ka Redox W	/ith 2.5Y I	Hue			KS)				
Thick Dark Surfa	•)		³ One ii	ndicator of	hydrophy	tic vegetati	on, one prir	mary indicator of wetland	hydrology,				
Alaska Gleyed (,						pe position			.,				
Alaska Redox (A	,	- \		4 Give o	letails of co	lor chang	je in Remar	ks						
Alaska Gleyed P	ores (AI	5)												
Restrictive Layer (if p	present):													
Type: Hydric Soil Present? Yes 🔿 No 🖲														
Depth (inches):														
Remarks: no hydric soil indicators														
HYDROLOGY														
Wetland Hydrolog	•									icators (two or more are required)				
Primary Indicators (is sufficient)					(
Surface Water							Aerial Image							
High Water Tat							ncave Surfa	ice (B8)		of Reduced Iron (C4)				
Water Marks (B					arl Deposits drogen Sul	. ,	(C1)		Salt Deposits (C5)					
Sediment Depo					y-Season W									
Drift Deposits (her (Explair				_	nic Position (D2)				
Algal Mat or Cri	,					r in recine	11(3)			quitard (D3)				
Iron Deposits (_	graphic Relief (D4)				
Surface Soil Cra	, acks (B6)								_	al Test (D5)				
Field Observations	S:													
Surface Water Pres	ent?	Yes $\mathbb C$	No 🖲	De	epth (inches	5):								
Water Table Presen	it?	Yes $\mathbb C$	No 🖲	De	epth (inches	5):		Wetla	nd Hydrology Preser	nt? Yes 🔿 No 🖲				
Saturation Present? (includes capillary f		Yes \bigcirc	No 🖲	De	epth (inches	5):								
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:														
Remarks:														
no wetland hydrolog	y indicate	ors												