WETLAND DETERMINATION DATA FORM - Alaska Region

rojec	t/Site: Susitna-Watana Hydroele	ctric Project	B	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Jun-12		
pplic	ant/Owner: Alaska Energy Author	ritv				Sampling Point: SW12_T07_01		
vest	igator(s): JGK			Landform (hill	side, terrac	e, hummocks etc.): Floodplain		
		ndulating		Slope: 1.7	% / 1.0	<u> </u>		
	· <u>-</u>	- Tradiating	L at :	· —		Long.: -148.257769972 Datum: WGS84		
	gion : Interior Alaska Mountains		Lat	62.830229908	52			
	ap Unit Name:					NWI classification: PSS1C		
Are \ Are \	/egetation ✓ , Soil ✓ , or	Hydrology	significantly naturally pr	y disturbed? oblematic?	(If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes No O Ided, explain any answers in Remarks.) Iormal Circumstances Present? Yes No O Ided, explain any answers in Remarks.)		
	Hydrophytic Vegetation Present?	Yes No)					
	Hydric Soil Present?	Yes No)	Is	the Sam	pled Area		
	Wetland Hydrology Present?	Yes No		wi	thin a W	etland? Yes ● No ○		
_	narks:	1000 1100						
EG	ETATION - Use scientific nam	nes of plants. L	ist all spe	ecies in the	plot.	Dominance Test worksheet:		
_	a Charles		Absolute	Dominant	Indicator	Number of Dominant Species		
1.	e Stratum		% Cover 0	Species?	Status	That are OBL, FACW, or FAC:1(A)		
	-					Total Number of Dominant		
2. 3.						Species Across All Strata: 3 (B)		
3. 4.						Percent of dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)		
- . 5.			0					
0.		Total Cover				Prevalence Index worksheet:		
Sai	oling/Shrub Stratum 50%	of Total Cover:		of Total Cover:	0	Total % Cover of: Multiply by:		
Jai	Jing/ Jin ub Stratum					OBL Species 0 x1 = 0		
	Salix alaxensis		15	✓	FAC	FACW Species 0 x 2 = 0		
2.			5		FAC	FACUS paging 49 x 4 = 99		
3.				✓	FACU	FACU Species 49 x 4 = 196		
4.					FACU	UPL Species 0 x 5 = 0		
5.	Alnus viridis ssp. crispa				FAC	Column Totals: <u>82</u> (A) <u>295</u> (B)		
6.						Prevalence Index = B/A =3.598_		
7.								
8.						Hydrophytic Vegetation Indicators:		
9.						Dominance Test is > 50%		
10.		Total Cover				☐ Prevalence Index is ≤3.0		
He	rb Stratum_ 50%	6 of Total Cover:		6 of Total Cover	: 10.8	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)		
	Hedysarum alpinum		15	✓	FACU	✓ Problematic Hydrophytic Vegetation ¹ (Explain)		
	Luninus aratiqua				FACU	Indicators of hydric soil and wetland hydrology must		
	Fundia cibirica		2		FAC	be present, unless disturbed or problematic.		
	Astrogalus alninus				FAC			
5.	Castilloia caudata				FAC	Plot size (radius, or length x width) <u>10m</u>		
6.	Chamarian latifalium		1		FAC	% Cover of Wetland Bryophytes (Where applicable)		
						% Bare Ground		
8.			^			Total Cover of Bryophytes		
9.								
			0			Hydrophytic		
		28			Vegetation			
						Present? Yes No		

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SOIL Sampling Point: SW12_T07_01

Profile Description	•	he depth nee	ded to docume	ument the indicator or confirm the absence of indicators) Redox Features								
Depth (inches)								Texture	Bomarko			
	Color (moi			Color (moist)	<u>%</u>	Type ¹	_Loc_2		Remarks			
0-14	2.5Y	4/2	50					Sand	rounded-semiangular gravel & rounded co			
			— —									
			———									
¹Type: C=Con	ncentration. D=	Depletion.	RM=Reduced	Matrix ² Location	n: PL=Por	e Lining. RC	C=Root Cha	nnel. M=Matrix				
Hydric Soil Ir	ndicators:			Indicators for Pr	roblemati	c Hydric S	oils:					
	Histel (A1)			Alaska Color Cl		4		Alaska Gleyed Without H	ue 5Y or Redder			
Histic Epipe	` ,			Alaska Alpine swales (TA5) Underlying Layer								
	Sulfide (A4)			☐ Alaska Redox With 2.5Y Hue ✓ Other (Explain in Remarks)								
	Surface (A12)											
Alaska Gley								nary indicator of wetland h	ydrology,			
Alaska Red				and an appropriat	te landscap	e position r	must be pre	esent				
	yed Pores (A15)		4 Give details of co	olor chang	e in Remark	ks					
Restrictive Laye	er (if present):	-										
Type:								Hydric Soil Present	? Yes ● No ○			
Depth (inch	ies):							.,				
Remarks:												
				dox feature develo _l								
HYDROLO	GY											
Wetland Hydr		tors:		•				Secondary Indi	cators (two or more are required)			
-	tors (any one is							Water Stained Leaves (B9)				
Surface W	/ater (A1)			☐ Inundation V	√isible on A	erial Image	ery (B7)	☐ Drainage P	Patterns (B10)			
High Wate	High Water Table (A2) Sparsely Vegetated Concave						ice (B8)	Oxidized R	hizospheres along Living Roots (C3)			
Saturation	Saturation (A3) Marl Deposits (B15)						-	Presence o	of Reduced Iron (C4)			
☐ Water Mar	☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1)							☐ Salt Depos	its (C5)			
Sediment	Deposits (B2)			☐ Dry-Season \	Water Tabl	ie (C2)		☐ Stunted or	Stressed Plants (D1)			
✓ Drift Depo	osits (B3)			Other (Expla	in in Rema	ırks)		✓ Geomorphi	ic Position (D2)			
Algal Mat	or Crust (B4)							Shallow Aq	quitard (D3)			
☐ Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)			
Surface Sc	oil Cracks (B6)							FAC-neutra	al Test (D5)			
Field Observa	itions:											
Surface Water	Present?	Yes 🔾	No 💿	Depth (inche	es):							
Water Table P	resent?	Yes 🔾	No 💿	Depth (inche	es):		Wetlar	nd Hydrology Presen	t? Yes • No O			
Saturation Pre				. ,	•							
(includes capil	llary fringe)	Yes O		Depth (inche								
Describe Record	ded Data (strea	m gauge, r	nonitor well,	aerial photos, pre	vious inspe	ection) if ava	ailable:					
Domarko									-			
Remarks:												

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