WETLAND DETERMINATION DATA FORM - Alaska Region

Project	/Site: Susitna-Watana Hydr	oelectric Project	Во	orough/City:	Matanusk	a-Susitna Borough Sampling Date: 02-Aug-12			
Applica	ant/Owner: Alaska Energy Au	uthority	Sampling Point: SW12_T53_0	1					
	gator(s): CTS, EKJ		L	Landform (hillside, terrace, hummocks etc.): Swale					
	elief (concave, convex, none):	convex				° Elevation: 731			
	jion: Southcentral Alaska						4		
_			Lat						
	p Unit Name:				<u> </u>	NWI classification: Upland			
Are V Are V		, or Hydrology sometime, or Hydrology related the relationship is shown to be a second sometime.	significantly naturally pro ving sam	disturbed? blematic?	Are "N (If nee	(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ Ioded, explain any answers in Remarks.) Iormal Circumstances present? Yes ● No ○ Ioded, explain any answers in Remarks.)			
	Hydrophytic Vegetation Preser	pled Area							
	Hydric Soil Present?	Yes No •		within a Wetland? Yes ○ No ●					
	Wetland Hydrology Present?	Yes ○ No ●)						
	arks: Alder choked swale w riv				<u> </u>	Dominance Test worksheet:			
Tro	e Stratum		Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant Species			
1.	e Stratum		0			That are OBL, FACW, or FAC: (A)		
2.			0			Total Number of Dominant	١		
3.						Species Across All Strata:3 (B	,		
4.						Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A	/B)		
5.									
		Total Cover:		_		Prevalence Index worksheet: Total % Cover of: Multiply by:			
Sap	ling/Shrub Stratum	50% of Total Cover:	0 20%	of Total Cover:	0	001.0			
-				_		OBL Species 0 x1 = 0 FACW Species 1 x2 = 2			
	Alnus viridis ssp. sinuata			✓	FAC	FAC Species 142.1 x 3 = 426.3			
	Ribes triste		2		FAC				
3.						FACU Species 37.1 x 4 = 148.4 UPL Species 0 x 5 = 0			
4. 5.									
						Column Totals: <u>180.2</u> (A) <u>576.7</u>	(B)		
6. 7.			0			Prevalence Index = B/A = 3.200			
						Undership Vosetstian Indicators			
9.			0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%			
10.						Prevalence Index is ≤ 3.0			
10.		Total Cover:							
Her	b Stratum_			of Total Cover	:18.4	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)			
1.	Calamagrostis canadensis		10		FAC	Problematic Hydrophytic Vegetation ¹ (Explain)			
2.	Heracleum maximum		8		FACU	¹ Indicators of hydric soil and wetland hydrology must			
3.	Dryopteris expansa		20	✓	FACU	be present, unless disturbed or problematic.			
4.	Thalictrum sparsiflorum		5		FACU	Plot size (radius, or length x width)			
5.	Athyrium filix-femina		_40_	~	FAC	% Cover of Wetland Bryophytes 0			
6.	Aconitum delphinifolium		0.1		FAC	(Where applicable)			
7.	Sanguisorba canadensis		1		FACW	% Bare Ground _5			
8.	Trientalis europaea		0.1		FACU	Total Cover of Bryophytes			
9.	Mertensia paniculata		1		FACU				
10.	Streptopus amplexifolius		3		FACU	Hydrophytic			
Total Cover: 88.2 50% of Total Cover: 44.1 20% of Total Cover:					_17.64_	Vegetation Present? Yes ● No ○			
Rem	arks: Aneric, Vioepi, Gereri =	= 0.1 cover							

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SOIL Sampling Point: SW12_T53_04

Profile Descript	ion: (Describe to	the denth ne	eded to docum	nent the indicator or co	ofirm the ab	scence of indic	ators)	• -	Tome: 54712_155_64		
		Matrix	eucu io uocan		dox Feati		aluisj				
Depth (inches)	Color (me	oist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks		
0-8			60					Fibric Organics	40% roots and wood		
8-11	7.5YR	2.5/1	80					Loam	20% roots		
11-19	10YR	3/2	90					Loamy Sand	10% angular gravel		
		,									
									-		
					_						
¹ Type: C=Cor	ncentration. D	=Depletion	RM=Reduce	ed Matrix ² Location	n: PL=Por	e Lining. RC	=Root Cha	nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pi	oblemati	c Hydric So	oils: ³				
	r Histel (A1)			Alaska Color C		4		Alaska Gleyed Without Hue 5Y or Redder			
Histic Epip	. ,			Alaska Alpine s	wales (TA	5)		Underlying Layer			
Hydrogen	Sulfide (A4)			Alaska Redox V	With 2.5Y I	Hue	Other (Explain in Remarks)				
Thick Dark	Surface (A12	2)									
Alaska Gle	eyed (A13)			One indicator of and an appropria				nary indicator of wetland hesent	ydrology,		
Alaska Red	dox (A14)					•	•				
Alaska Gle	yed Pores (A1	.5)		⁴ Give details of c	olor chang	e in Remark	S				
Restrictive Laye	er (if present):	:									
Type:								Hydric Soil Present	? Yes O No 💿		
Depth (inch	nes):										
Remarks:											
no hydric soil ir	ndicators - A2	not applica	ble as no ind	ication of soil satura	ation.						
HYDROLO	GV										
Wetland Hyd		ators:						Secondary India	cators (two or more are required)		
Primary Indica			:)						ned Leaves (B9)		
Surface W				☐ Inundation V	/isible on A	erial Image	rv (B7)	` ′			
						ncave Surfac	, , ,	_	hizospheres along Living Roots (C3)		
Saturation (A3)			Marl Deposits (B15)				Presence of Reduced Iron (C4)				
Water Marks (B1)				Hydrogen Sulfide Odor (C1)				☐ Salt Depos	its (C5)		
Sediment Deposits (B2)				Dry-Season	Water Tabl	le (C2)		Stunted or Stressed Plants (D1)			
Drift Depo	osits (B3)			Other (Expla	in in Rema	arks)		Geomorphi	ic Position (D2)		
Algal Mat	or Crust (B4)							Shallow Aq	juitard (D3)		
Iron Depo	sits (B5)							Microtopog	graphic Relief (D4)		
☐ Surface S	oil Cracks (B6))						☐ FAC-neutra	l Test (D5)		
Field Observa											
Surface Water	r Present?		No 💿	Depth (inche	es):						
Water Table F	resent?	Yes 🤇	No 💿	Depth (inche	es):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre		Yes C	No 💿	Depth (inche	es):						
(includes capillary fringe)											
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Demander:											
Remarks: no wetland hydrology indicators											
no wetiand nyo	irology indicat	ors									

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