WETLAND DETERMINATION DATA FORM - Alaska Region

ct/Site: Susitna-Watana Hydroelectric Project	E	Borough/City:	Matanusk	ka-Susitna Borough Sampling Date: 31-Jul-12			
eant/Owner: Alaska Energy Authority				Sampling Point: SW12_T40_06			
		Landform (hil	lside, terrac	ce, hummocks etc.): Toeslope			
			· · · · · · · · · · · · · · · · · · ·				
	Lat ·			Long.: -147.444893309 Datum: WGS84			
	NWI classification: Upland						
· .	· 	.0 Voo	■ No ○				
	-						
				lormal Circumstances" present? Yes ● No Ueded, explain any answers in Remarks.)			
,							
MARY OF FINDINGS - Attach site map sho	wing san	npling point	locations	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes No		_					
Hydric Soil Present? Yes No			Is the Sampled Area				
•		W	within a Wetland? Yes ○ No •				
,							
marks. Highib, but a small pater maybe not mappable							
ETATION - Use scientific names of plants. L	ist all spe	ecies in the	plot.				
	Abaaluta	Daminant	Tudiantas	Dominance Test worksheet:			
ee Stratum			Status	Number of Dominant Species			
	0			That are OBL, FACW, or FAC: 2 (A)			
	0			Total Number of Dominant Species Across All Strata: 3 (B)			
				Percent of dominant Species			
	0			That Are OBL, FACW, or FAC: 66.7% (A/B)			
	0			Prevalence Index worksheet:			
Total Cover	:0			Total % Cover of: Multiply by:			
pling/Shrub Stratum 50% of Total Cover:	0 20%	of Total Cover	0	OBL Species0 x 1 =0			
Betula nana	3	✓	FAC	FACW Species 10.2 x 2 = 20.40			
Coliv pulobro	0.1		FACW	FAC Species <u>84.3</u> x 3 = <u>252.9</u>			
Diego glaves		✓	FACU	FACU Species 3.2 x 4 = 12.8			
				UPL Species <u>0</u> x 5 = <u>0</u>			
	0			Column Totals:97.7 (A)286.1 (B)			
	0						
	0			Prevalence Index = B/A = 2.928			
	0			Hydrophytic Vegetation Indicators:			
				✓ Dominance Test is > 50%			
				✓ Prevalence Index is ≤3.0			
		of Total Cover	0.03	Morphological Adaptations ¹ (Provide supporting data in			
		_		Remarks or on a separate sheet)			
B () () ()	- 10			Problematic Hydrophytic Vegetation ¹ (Explain)			
3				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
Erigoron poris	0.1						
Equipotum aryonoo				Plot size (radius, or length x width)			
	0.1			% Cover of Wetland Bryophytes (Where applicable)			
	0.1		FAC	% Bare Ground			
•	0.1		FAC	Total Cover of Bryophytes 0			
Aconitum delphinifolium			FACW	. Sal. Cover or Dryophytes			
Viola langsdorffii	0.1		IACVV				
•	0.1		FACU	Hydrophytic			
Viola langsdorffii	0.1			Hydrophytic Vegetation Present? Yes No			
	tigator(s): CTS, EKJ relief (concave, convex, none): concave region: Interior Alaska Mountains lap Unit Name:	rant/Owner: Alaska Energy Authority tigator(s): CTS, EKJ relief (concave, convex, none): concave relief (concave, convex, none	cant/Owner: Alaska Energy Authority tigator(s): CTS, EKJ	Cantiform Alaska Energy Authority Etgator(s) CTS, EKJ CTS, EKJ Concave Slope: 7.0 % / 4.0			

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SOIL Sampling Point: SW12_T40_06

Profile Descript	ion: (Describe to t	he depth ne	eded to docu	ment the inc	licator or con	firm the abs	sence of indic	cators)				
Depth		latrix			Red	ox Featu	res		_			
(inches)	Color (moi	st)	%	Color (m	oist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks		
0-2			100						Fibric Organics	20% roots		
2-10	2.5Y	4/2	55	10YR	3/6	15	C	PL	Loam	20% roots semiangular gravel /cobble		
10-15	10YR	3/2	85						Loam	10% roots, coarse sand and semiangular gr		
								-				
								-				
1 Type: C=Co	ncentration D=	Denletion	RM=Reduc	ed Matrix	2 Location	PI =Pore	e Linina RC	=Root Cha	annel. M=Matrix			
		Depietion	Ni-reduc				c Hydric So		anner. M-Maura			
Hydric Soil I					ka Color Ch		4	DIIS:	Alaska Claurad With aut III	FV -:: D-dd-::		
	r Histel (A1)				ka Color Chi ka Alpine sv		-		☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer			
	edon (A2) Sulfide (A4)				ka Redox W	•	•		Other (Explain in Remarl	s)		
_ ' '	Surface (A12)				ta redox W	10.1 2.51 1	iac		` '	,		
Alaska Gle									mary indicator of wetland h	ydrology,		
Alaska Re	, , ,			and an	appropriate	andscap	e position r	must be pr	esent			
l —	eyed Pores (A15)		4 Give o	letails of co	lor change	e in Remark	(S				
Restrictive Laye	er (if nresent):											
Type:	er (ii present).								Hydric Soil Present	? Yes ○ No •		
Depth (incl	nes):								,			
Remarks:												
no hydric soil ir	ndicators											
,												
HYDROLO	GY											
	rology Indicat	ors:							Secondary Indi	cators (two or more are required)		
_	itors (any one is)						Water Stained Leaves (B9)			
	/ater (A1)			☐ Inc	undation Vis	sible on A	erial Image	rv (B7)		Patterns (B10)		
	er Table (A2)						ncave Surfac			hizospheres along Living Roots (C3)		
Saturation					rl Deposits			,		of Reduced Iron (C4)		
☐ Water Ma	rks (B1)			□ Ну	drogen Sulf	ide Odor	(C1)		☐ Salt Depos	sits (C5)		
Sediment	Deposits (B2)				y-Season W				☐ Stunted or	Stressed Plants (D1)		
☐ Drift Depo	osits (B3)				her (Explair				Geomorph	ic Position (D2)		
Algal Mat	or Crust (B4)				` '		,		Shallow Ac	quitard (D3)		
☐ Iron Depo	osits (B5)								Microtopog	graphic Relief (D4)		
Surface S	oil Cracks (B6)								FAC-neutra	al Test (D5)		
Field Observa	ations:											
Surface Wate	r Present?	Yes C	No 💿	De	pth (inches	s):						
Water Table F	Present?	Yes C	No 💿	De	epth (inches	s):		Wetla	nd Hydrology Presen	t? Yes O No 💿		
Saturation Pre		Yes C	No •	De	epth (inches	s):						
	ded Data (strea	ım galige.	monitor we	ell. aerial n	hotos, previ	ious inspe	ection) if ava	ailable:				
Describe ress.	aca 2ata (50.00	gaage,		, aca. p								
Remarks:												
no wetland hydrology indicators												

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