WETLAND DETERMINATION DATA FORM - Alaska Region

	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	xa-Susitna Borough Sampling Date: 20-Jun-12
	ant/Owner: Alaska Energy Authority			-	Sampling Point: SW12_T06_08
,	gator(s): SLI, EKJ		Landform (hill	side, terrac	ce, hummocks etc.): Lowland
Local r	relief (concave, convex, none): hummocky		Slope:	% / 2.0	
	gion : Interior Alaska Mountains	Lat ·	 62.824338162		Long.: -148.624545709 Datum: NAD83
_		Lut	02.024330102		
	ap Unit Name:			No ○	NWI classification: PSS4E
	matic/hydrologic conditions on the site typical for this	•			(If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○
	/egetation ☐ , Soil ☐ , or Hydrology ☐ .	•	tly disturbed?		ionnal oli cametanoco procent.
Are v	egetation ☐ , Soil ☑ , or Hydrology ☐	naturally p	problematic?	(If nee	eded, explain any answers in Remarks.)
SUMI	MARY OF FINDINGS - Attach site map sho	owing sa	mpling point	locations	s, transects, important features, etc.
	Hydrophytic Vegetation Present? Yes No	$\overline{\bigcirc}$			
	Hydric Soil Present? Yes ● No (\circ			pled Area
	Wetland Hydrology Present? Yes No	\circ	wi	thin a W	/etland? Yes ● No ○
Rema	arks: picmar forested wetland w trees and shrubs on		ped hummocks	, water bet	ween hummocks.
VEGE	ETATION - Use scientific names of plants.	List all sn	ecies in the	nlot	
	Ose scientific flames of planes.				Dominance Test worksheet:
Tre	e Stratum	Absolute % Cove		Indicator Status	Number of Dominant Species
1.	Picea mariana	15	✓	FACW	That are OBL, FACW, or FAC:
2.	Picea glauca	5	✓	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
3.		0			Percent of dominant Species
4.		0			That Are OBL, FACW, or FAC: 85.7% (A/B)
5.		0			Prevalence Index worksheet:
	Total Cove	er: <u>20</u>	_		Total % Cover of: Multiply by:
Sap	ling/Shrub Stratum 50% of Total Cover:	10 209	% of Total Cover:	4	OBL Species 0 x 1 = 0
1.	Picea mariana	15	\checkmark	FACW	FACW Species 40 x 2 = 80
2.	Vaccinium uliginosum	7	✓	FAC	FAC Species <u>26</u> x 3 = <u>78</u>
3.	Vaccinium vitis-idaea		✓	FAC	FACU Species <u>19</u> x 4 = <u>76</u>
4.	Betula nana	3		FAC	UPL Species <u>0</u> x 5 = <u>0</u>
5.	Salix pulchra	5		FACW	Column Totals: 85 (A) 234 (B)
6.	Linnaea borealis	3		FACU	Dravelance Index = D/A = 2.753
7.	Rosa acicularis	3		FACU	Prevalence index = B/A =
8.	Viburnum edule	2	_	FACU	Hydrophytic Vegetation Indicators:
9.	Picea glauca		_	FACU	
10.			_		
Uau	-00/ F I O			. 10	Morphological Adaptations ¹ (Provide supporting data in
	Faviority and voticing				
	A (0 1 00 0				
	Durana anatiana		-		be present, unless disturbed or problematic.
٥.	D. b b		- <u> </u>		
1	Corrue auscica		- 🗒		Plot size (radius, or length x width) 10m
4.	D. b. a see Co. a (IAAA)			FACU	
5.					
5. 6.		U			
5. 6. 7.					Total Cover of Bryophytes
5. 6. 7. 8.		0			Total Cover of Bryophytes90
5. 6. 7. 8. 9.		0			
5. 6. 7. 8. 9.		0 0 0 0			Total Cover of Bryophytes 90 Hydrophytic Vegetation Present? Yes No
4. 5. 6. 7. 8. 9. 10. Her	Betula nana Salix pulchra Linnaea borealis Rosa acicularis Viburnum edule	3 5 3 3 2 5 0 25 25 25 2 2 2 3 2	of Total Cover	FACU FACU FACU FACU FACU FACU FACU FACU	UPL Species 0 x 5 = 0 Column Totals: 85 (A) 234 (B) Prevalence Index = B/A = 2.753 Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations 1 (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation 1 (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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SOIL Sampling Point: SW12_T06_08

Profile Description Depth	Ma	auix		Rec	iox i cutu				
(inches)	Color (mois	t)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
					-			-	
									-
¹Type: C=Con	ncentration. D=D	epletion.	RM=Reduc	ed Matrix ² Location	: PL=Por	e Lining. RO	C=Root Cha	nnel. M=Matrix	
Hydric Soil Ir	ndicators:			Indicators for Pr	oblematio	c Hydric S	oils: ³		
Histosol or	Histel (A1)			Alaska Color Ch	nange (TA	4) ⁴		Alaska Gleyed Withou	t Hue 5Y or Redder
Histic Epip	edon (A2)			Alaska Alpine s	wales (TA	5)		Underlying Layer	
Hydrogen	Sulfide (A4)			Alaska Redox V	Vith 2.5Y H	lue	✓	Other (Explain in Rem	narks)
Thick Dark	Surface (A12)			_					
Alaska Gle	yed (A13)			³ One indicator of and an appropriat				nary indicator of wetlan	d hydrology,
Alaska Red	dox (A14)					•	·	Sent	
Alaska Gle	yed Pores (A15)			⁴ Give details of co	olor chang	e in Remarl	KS .		
Restrictive Laye	er (if present):								
Type								Hydric Soil Prese	nt? Yes 💿 No 🔾
Type:									
Depth (inch		r througho	out site. as	ssume hydric soils du	e to hydro	phytic vege	etation and	primary hydrology indi	cators.
Depth (inch		r througho	out site. as	ssume hydric soils du	e to hydro	phytic vege	etation and	primary hydrology indi	cators.
Depth (inch Remarks: no soil pit due t	to standing wate		out site. as	ssume hydric soils du	e to hydro	phytic vege	etation and	primary hydrology indi	cators.
Depth (inches Remarks: no soil pit due to soil	to standing wate	ors:	out site. as	ssume hydric soils du	e to hydro	ophytic vege	etation and	Secondary I	ndicators (two or more are required)
Depth (inches per	GY rology Indicate	ors:	out site. as					Secondary I	ndicators (two or more are required) Stained Leaves (B9)
Depth (inches per	GY rology Indicate tors (any one is	ors:	out site. as	☐ Inundation V	isible on A	erial Image	ery (B7)	Secondary I Water S Drainag	ndicators (two or more are required) Stained Leaves (B9) Je Patterns (B10)
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