## WETLAND DETERMINATION DATA FORM - Alaska Region

et/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 06-Jul-13			
ant/Owner: Alaska Energy Authority			-	Sampling Point: SW13_T115_02			
		Landform (hills	side, terrac				
· . · · · · · · · · · · · · · · · · · ·							
, <u> </u>	Lat:	· · —		Long.: -148.30147028 Datum: WGS84			
	Lat	03.005519509					
			<u> </u>	NWI classification: Upland			
				(If no, explain in Remarks.)  ormal Circumstances" present? Yes ● No ○			
	-	•		р. остана			
√egetation	naturally p	roblematic?	(If nee	ded, explain any answers in Remarks.)			
MARY OF FINDINGS - Attach site map show	wing sar	npling point	locations	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes • No C	)			·			
, , , , , , , , , , , , , , , , , , ,	the Sam	ne Sampled Area					
		wit	thin a W	/etland? Yes ○ No •			
narks: DUNN SITE 1426 SOIL 1427							
ETATION - Use scientific names of plants. Li	ist all sn	ecies in the r	nlot				
23 Train Ose scientific flames of plants. El	3t an 3p	20103 111 1110 p	310 (.	Dominance Test worksheet:			
. a Shunkuun				Number of Dominant Species			
			Status	That are OBL, FACW, or FAC:4(A)			
		. 📙		Total Number of Dominant			
		· 📙		Species Across All Strata:4 (B)			
				Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
Total Cover				Prevalence Index worksheet:  Total % Cover of: Multiply by:			
		6 of Total Cover:	0				
		- <b>V</b>					
· ·	-	- <u> </u>					
		. 💆					
•		. H					
<del>'</del>			FAC	Column Totals: <u>118.6</u> (A) <u>328.9</u> (B)			
		·		Prevalence Index = B/A = 2.773			
	0			Uvdranhytic Vagatation Indicators			
				Hydrophytic Vegetation Indicators:			
	0			✓ Dominance Test is > 50%			
	0		<u> </u>	<ul><li>✓ Dominance Test is &gt; 50%</li><li>✓ Prevalence Index is ≤3.0</li></ul>			
	0 82	% of Total Cover:	16.4	✓ Dominance Test is > 50%			
Total Cover  rb Stratum 50% of Total Cover:	0 82			<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>			
Total Cover  rb Stratum 50% of Total Cover:	82 41 20	of Total Cover:	16.4 FAC OBL	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> <li>Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> </ul>			
Total Cover rb Stratum 50% of Total Cover: Cornus suecica	82 41 200 20		FAC	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> </ul>			
Total Cover rb Stratum 50% of Total Cover:  Cornus suecica Carex aquatilis	20 1		FAC OBL	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> <li>☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> <li><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>			
Total Cover rb Stratum 50% of Total Cover:  Cornus suecica Carex aquatilis Trichophorum caespitosum	0 82 41 200 20 1 5		FAC OBL OBL	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> <li>☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> <li><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> <li>Plot size (radius, or length x width) 10m</li> </ul>			
Total Cover rb Stratum 50% of Total Cover:  Cornus suecica Carex aquatilis Trichophorum caespitosum Calamagrostis canadensis	0 82 41 200 1 5 10		FAC OBL OBL FAC	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> <li>☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> <li><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>			
Total Cover 50% of Total Cover:  Cornus suecica Carex aquatilis Trichophorum caespitosum Calamagrostis canadensis Sedum rosea	0 82 41 200 1 5 10 0.1		FAC OBL OBL FAC FAC	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> <li>☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> <li><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> <li>Plot size (radius, or length x width) 10m</li> <li>% Cover of Wetland Bryophytes 0</li> </ul>			
Total Cover 50% of Total Cover:  Cornus suecica Carex aquatilis Trichophorum caespitosum Calamagrostis canadensis Sedum rosea Trientalis europaea ssp. arctica	0 82 41 200 1 5 10 0.1		FAC OBL OBL FAC FAC FAC	<ul> <li>✓ Dominance Test is &gt; 50%</li> <li>✓ Prevalence Index is ≤3.0</li> <li>☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)</li> <li>☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)</li> <li><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> <li>Plot size (radius, or length x width)</li></ul>			
Total Cover 50% of Total Cover:  Cornus suecica Carex aquatilis Trichophorum caespitosum Calamagrostis canadensis Sedum rosea Trientalis europaea ssp. arctica Rubus arcticus (IAM)	0 82 41 20° 20 1 5 10 0.1 0.1		FAC OBL OBL FAC FAC FAC FAC	✓ Dominance Test is > 50%     ✓ Prevalence Index is ≤3.0       Morphological Adaptations			
Total Cover rb Stratum 50% of Total Cover:  Cornus suecica Carex aquatilis Trichophorum caespitosum Calamagrostis canadensis Sedum rosea Trientalis europaea ssp. arctica Rubus arcticus (IAM) Spinulum annotinum	0 82 41 20 1 5 10 0.1 0.1 0.1		FAC OBL OBL FAC FAC FAC FACU FACU	✓ Dominance Test is > 50%     ✓ Prevalence Index is ≤3.0       Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Plot size (radius, or length x width)       10m       Cover of Wetland Bryophytes       (Where applicable)  % Bare Ground       1			
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	ant/Owner: Alaska Energy Authority igator(s): JGK relief (concave, convex, none): hummocky gion: Interior Alaska Mountains ap Unit Name: matic/hydrologic conditions on the site typical for this ti //egetation	ant/Owner: Alaska Energy Authority igator(s): JGK relief (concave, convex, none): hummocky gion: Interior Alaska Mountains	ant/Owner: Alaska Energy Authority igator(s): JGK	ant/Owner: Alaska Energy Authority igator(s): JGK			

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SOIL Sampling Point: SW13\_T115\_02

		the depth nee	ded to docume	ent the indicator or co	nfirm the abs		ators)				
Depth (inches)	Color (mo	ist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc_2	Texture	Remarks		
0-2				•				Fibric Organics	Some silt mixed into bottom		
2-5	10YR	4/3						Coarse Sandy Clay Loam			
5-22								Coarse Sandy Loam	With fine gravel and angular cobbles/boulde		
								- Course suria, Esum	with fine graver and angular cobbles/ boulde		
					-						
								-			
¹Type: C=Cor	ncentration. D	=Depletion.		d Matrix <sup>2</sup> Location		_		nnel. M=Matrix			
Hydric Soil I	ndicators:			Indicators for Pi	oblematio	Hydric So	oils: <sup>3</sup>				
Histosol or	r Histel (A1)			Alaska Color C	hange (TA4						
Histic Epip	edon (A2)			Alaska Alpine swales (TA5) Underlying Layer							
Hydrogen	Sulfide (A4)			Alaska Redox \	With 2.5Y F	lue		Uther (Explain in Remarks)			
Thick Dark	Surface (A12	)		3 One indicator of	. buduan bud	ia vaaatatia		nary indicator of wetland h	dvologu		
Alaska Gle				and an appropria					iyarology,		
Alaska Red	dox (A14) eyed Pores (A1	5)		4 Give details of c	olor change	e in Remark	s				
Restrictive Laye											
Type:	ei (ii preseiit).							Hydric Soil Present	? Yes ○ No •		
Depth (inch	nes):							riyane son Fresent	: 165 0 110 0		
Remarks:											
no hydric soil ir	idicators										
HYDROLO	GY										
Wetland Hydi	rology Indica	tors:						Secondary Indi	cators (two or more are required)		
Primary Indica	tors (any one	is sufficient)						Water Stai	ned Leaves (B9)		
Surface W	/ater (A1)			Inundation V	isible on A	erial Image	ry (B7)		Patterns (B10)		
High Wate	er Table (A2)			Sparsely Vegetated Concave Surface (B8)				Oxidized Rhizospheres along Living Roots (C3)			
Saturation	` '			Marl Deposit	s (B15)				of Reduced Iron (C4)		
Water Ma				∐ Hydrogen Sւ				☐ Salt Depos			
	Deposits (B2)			Dry-Season					Stressed Plants (D1)		
Drift Depo				Other (Expla	in in Rema	rks)			ic Position (D2)		
	or Crust (B4)								quitard (D3)		
☐ Iron Depo	oil Cracks (B6)								graphic Relief (D4) al Test (D5)		
Field Observa								☐ FAC-fleution	ii Test (D3)		
Surface Water		Yes 🔾	No •	Depth (inche	<i>ec).</i>						
Water Table P		Yes O			•		Wotla	nd Hydrology Presen	t? Yes ○ No ●		
		_	_	Depth (inche	es):		Wella	na nyarology Presen	it: les 🔾 NO 🔾		
Saturation Pre (includes capil		Yes O	No 🖭	Depth (inche	es):						
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:											
Remarks:											
no wetland hyd	drology indicate	ors									
	,aicat										

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