WETLAND DETERMINATION DATA FORM - Alaska Region

TUJEC	t/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 21-Aug-15			
Applic	ant/Owner: Alaska Energy Authority	Sampling Point: SW15_T302_05						
Investigator(s): GVF Landform (hillside, terrace, hummocks etc.): Gulch or Gully								
	relief (concave, convex, none): concave		Slope: 60.0		,			
		L ot :						
	gion : Interior Alaska Mountains	Lat.:						
	ap Unit Name:				NWI classification: Upland			
Are \ Are \	/egetation □ , Soil □ , or Hydrology □ MARY OF FINDINGS - Attach site map sho	significan naturally wing sa	tly disturbed? problematic?	(If nee	(If no, explain in Remarks.) lormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc.			
	Hydrophytic Vegetation Present? Yes No			the Com				
	Hydric Soil Present? Yes O No 🖲)			npled Area Vetland? Yes 🔾 No 🖲			
	Wetland Hydrology Present? Yes O No 🔍)	wi	thin a W	Tetland? Yes \bigcirc No \bigcirc			
/EGI	ETATION - Use scientific names of plants. Li	st all sp	•	olot. Indicator	Dominance Test worksheet:			
Tre	e Stratum	% Cove		Status	Number of Dominant Species			
1.	Alnus viridis ssp. crispa	50	\checkmark	FAC	That are OBL, FACW, or FAC: (A)			
2.					Total Number of Dominant Species Across All Strata: 7 (B)			
3.					Percent of dominant Species			
4.					That Are OBL, FACW, or FAC: <u>57.1%</u> (A/B)			
5.					Prevalence Index worksheet:			
	Total Cover	50			Total % Cover of: Multiply by:			
Saj	ling/Shrub Stratum 50% of Total Cover:	25 20	% of Total Cover:	10	OBL Species $0 \times 1 = 0$			
1	Alnus viridis ssp. crispa	45		FAC	FACW Species 3 $x 2 = 6$			
2.	Rubua idaaya	15		FACU	FAC Species <u>110.2</u> x 3 = <u>330.6</u>			
3.	Dihan triata			FAC	FACU Species 23.2 x 4 = 92.80			
4.			·	FAC	UPL Species $0 \times 5 = 0$			
5.			·	FACU				
6.					Column Totals: <u>136.4</u> (A) <u>429.4</u> (B)			
7.		0	· _		Prevalence Index = B/A =			
8.		0			Hydrophytic Vegetation Indicators:			
9.			· _		✓ Dominance Test is > 50%			
10.		0			Prevalence Index is ≤ 3.0			
	Total Cover b Stratum50% of Total Cover:			14.42	Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)			
		5	\checkmark	FACU	Problematic Hydrophytic Vegetation (Explain)			
1.	Mertensia paniculata							
1. 2.	Mertensia paniculata Calamagrostis canadensis	3	\checkmark	FAC	¹ Indicators of hydric soil and wetland hydrology must			
		3		FAC FACW	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
2.	Calamagrostis canadensis	3			be present, unless disturbed or problematic.			
2. 3.	Calamagrostis canadensis Arctagrostis latifolia Deventoris expanses	3		FACW	be present, unless disturbed or problematic. Plot size (radius, or length x width)			
2. 3. 4.	Calamagrostis canadensis Arctagrostis latifolia Dryopteris expansa	3 3 0.1		FACW FACU	be present, unless disturbed or problematic.			
2. 3. 4. 5.	Calamagrostis canadensis Arctagrostis latifolia Dryopteris expansa Aconitum delphiniifolium	3 3 0.1 0.1		FACW FACU FAC	be present, unless disturbed or problematic. Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes			
2. 3. 4. 5. 6.	Calamagrostis canadensis Arctagrostis latifolia Dryopteris expansa Aconitum delphiniifolium Artemisia tilesii	3 3 0.1 0.1 0.1		FACW FACU FAC FACU	be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable)			
2. 3. 4. 5. 6. 7. 8.	Calamagrostis canadensis Arctagrostis latifolia Dryopteris expansa Aconitum delphiniifolium Artemisia tilesii Adoxa moschatellina	3 3 0.1 0.1 0.1 0		FACW FACU FAC FACU	be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground			
2. 3. 4. 5. 6. 7. 8. 9.	Calamagrostis canadensis Arctagrostis latifolia Dryopteris expansa Aconitum delphiniifolium Artemisia tilesii Adoxa moschatellina	3 3 0.1 0.1 0.1 0 0 0		FACW FACU FAC FACU	be present, unless disturbed or problematic. Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes (Where applicable) % Bare Ground <u>60</u> Total Cover of Bryophytes <u>10</u> Hydrophytic			
2. 3. 4. 5. 6. 7. 8. 9.	Calamagrostis canadensis Arctagrostis latifolia Dryopteris expansa Aconitum delphiniifolium Artemisia tilesii Adoxa moschatellina	3 3 0.1 0.1 0.1 0 0 0 0 14.3		FACW FACU FAC FAC FAC	be present, unless disturbed or problematic. Plot size (radius, or length x width) 10m % Cover of Wetland Bryophytes			

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Depth	tion: (Describe to the depth needed to doct Matrix				edox Featu				
(inches)	Color (moist)		%	Color (moist)	%	Type ¹	Loc 2	Texture	Remarks
0-1			100					Fibric Organics	
1-5			100					Hemic Organics	
5-18	2.5Y 4/		100					Sandy Clay Loam	crs sand and rnd gvl. may be light redox features.
¹ Type: C=Con	centration. D	=Depletion	n. RM=Red	uced Matrix ² Location		-		nnel. M=Matrix	
Alaska Gley	Histel (A1) edon (A2) Sulfide (A4) Surface (A12 ved (A13)	-		Indicators for F Alaska Color (Alaska Alpine Alaska Redox One indicator of and an appropri Give details of	Change (TA swales (TA With 2.5Y H of hydrophyl ate landscap	4) ⁴ 5) Hue tic vegetatio pe position	on, one prin must be pre	Alaska Gleyed Without Underlying Layer Other (Explain in Remainant) nary indicator of wetland esent	arks)
Restrictive Laye Type: sand Depth (inch Remarks: no hydric soil inc	r (if present) y clay loam es): 5							Hydric Soil Preser	nt? Yes 🔿 No 🖲

HYDROLOGY

Wetland Hydrology Indicators:					Secondary Indicators (two or more are required)		
Primary Indicators (any one is	sufficient)		Water Stained Leaves (B9)				
Surface Water (A1)			Inundation Visible on Aerial Imager	y (B7)	Drainage Patterns (B10)		
High Water Table (A2)			Sparsely Vegetated Concave Surface	e (B8)	Oxidized Rhizospheres along Living Roots (C3)		
Saturation (A3)			Marl Deposits (B15)		Presence of Reduced Iron (C4)		
Water Marks (B1)			Hydrogen Sulfide Odor (C1)		Salt Deposits (C5)		
Sediment Deposits (B2)			Dry-Season Water Table (C2)		Stunted or Stressed Plants (D1)		
Drift Deposits (B3)			Other (Explain in Remarks)		Geomorphic Position (D2)		
Algal Mat or Crust (B4)					✓ Shallow Aquitard (D3)		
Iron Deposits (B5)					Microtopographic Relief (D4)		
Surface Soil Cracks (B6)					FAC-neutral Test (D5)		
Field Observations:	_	_					
Surface Water Present?	Yes \bigcirc	No 🖲	Depth (inches):				
Water Table Present? Yes \bigcirc No \bigcirc		Depth (inches): Wetland Hyd		rology Present? Yes \bigcirc No $oldsymbol{igodol}$			
Saturation Present? (includes capillary fringe)	$_{\rm Yes} \bigcirc$	No 🖲	Depth (inches):				
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:							
Remarks:							