WETLAND DETERMINATION DATA FORM - Alaska Region

ct/Site: Susitna-Watana Hydroelectric Project		Borough/City:	Matanusk	a-Susitna Borough Sampling Date: 24-Aug-15
ant/Owner: Alaska Energy Authority			-	Sampling Point: SW15_T328_04
		Landform (hill	side, terrac	
		_		
	l at ·			Long.: Datum: WGS84
	Luti			
· -			<u> </u>	NWI classification: Upland
				(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○
	-	-		omar on our location procent.
, ,				ded, explain any answers in Remarks.)
MARY OF FINDINGS - Attach site map show	wing sa	ampling point	locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No C)			
Hydric Soil Present? Yes No (-
)	wi	ithin a W	etland? Yes O No 💿
	no chann	elized features.	see SW15	T328 V01 for description of open low willow portion of
drainage (wetland).				
ETATION - Use scientific names of plants. Li	ist all s	pecies in the	plot.	
	Absolut	to Dominant	Indicator	Dominance Test worksheet:
ee Stratum			Status	Number of Dominant Species
				That are OBL, FACW, or FAC: 3 (A)
				Total Number of Dominant Species Across All Strata: 4 (B)
				Percent of dominant Species
		_		That Are OBL, FACW, or FAC: 75.0% (A/B)
	_			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 Species
Salix richardsonii	45	✓	FACW	FACW Species <u>78.1</u> x 2 = <u>156.2</u>
Salix pulchra	30	✓	FACW	FAC Species <u>15.2</u> x 3 = <u>45.60</u>
Dasiphora fruticosa	5		FAC	FACU Species <u>15.2</u> x 4 = <u>60.80</u>
	0	_		UPL Species <u>0</u> x 5 = <u>0</u>
	0	_		Column Totals: <u>108.5</u> (A) <u>262.6</u> (B)
	0	_		Prevalence Index = B/A =2.420_
	0	_		Trevalence index = B/A = 2.420
	0	_		Hydrophytic Vegetation Indicators:
	0	_	<u> </u>	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
	0 0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0
Total Cover	0 0 0			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 Morphological Adaptations (Provide supporting data in
Total Cover rb Stratum 50% of Total Cover:	0 0 0 80 40 2			Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Total Cover rb Stratum 50% of Total Cover: Cornus canadensis	0 0 0 80 40 2	0% of Total Cover	FACU	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
Total Cover rb Stratum 50% of Total Cover: Cornus canadensis Calamagrostis canadensis	0 0 0 80 40 2	0% of Total Cover		Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
Total Cover rb Stratum 50% of Total Cover: Cornus canadensis	0 0 0 80 40 2 15	0% of Total Cover	FACU	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Total Cover rb Stratum 50% of Total Cover: Cornus canadensis Calamagrostis canadensis Festuca altaica	0 0 0 80 40 2 15 7 3	0% of Total Cover	FACU FAC FAC	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width)r=10m
Total Cover rb Stratum 50% of Total Cover: Cornus canadensis Calamagrostis canadensis Festuca altaica Sanguisorba officinalis	0 0 0 80 40 2 15 7 3	0% of Total Cover	FACU FAC FAC FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Total Cover rb Stratum 50% of Total Cover: Cornus canadensis Calamagrostis canadensis Festuca altaica Sanguisorba officinalis Mertensia paniculata	0 0 0 80 40 2 15 7 3 3 0.1	20% of Total Cover	FACU FAC FAC FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) r=10m % Cover of Wetland Bryophytes
Total Cover rb Stratum 50% of Total Cover: Cornus canadensis Calamagrostis canadensis Festuca altaica Sanguisorba officinalis Mertensia paniculata Rhodiola integrifolia	0 0 0 80 40 2 15 7 3 3 0.1	20% of Total Cover	FACU FAC FAC FACW FACU	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable)
Total Cover rb Stratum 50% of Total Cover: Cornus canadensis Calamagrostis canadensis Festuca altaica Sanguisorba officinalis Mertensia paniculata Rhodiola integrifolia Swertia perennis	0 0 80 40 2 15 7 3 3 0.1 0.1	Ow of Total Cover	FACU FAC FACW FACU FACU FACU FACW	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 45
Total Cover rb Stratum Cornus canadensis Calamagrostis canadensis Festuca altaica Sanguisorba officinalis Mertensia paniculata Rhodiola integrifolia Swertia perennis Galium circaezans	0 0 80 40 2 15 7 3 3 0.1 0.1 0.1	O% of Total Cover	FACU FAC FACW FACU FACU FACU FACU FACU FACU	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) r=10m % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 45 Total Cover of Bryophytes Hydrophytic
Total Cover rb Stratum 50% of Total Cover: Cornus canadensis Calamagrostis canadensis Festuca altaica Sanguisorba officinalis Mertensia paniculata Rhodiola integrifolia Swertia perennis Galium circaezans Aconitum delphiniifolium	0 0 0 40 2 15 7 3 3 0.1 0.1 0.1 0.1 0.1	20% of Total Cover	FACU FAC FACW FACU FACU FAC FACW FACU FAC	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ☐ Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) ☐ Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Plot size (radius, or length x width) % Cover of Wetland Bryophytes (Where applicable) % Bare Ground 45 Total Cover of Bryophytes
	ant/Owner: Alaska Energy Authority igator(s): SLI, TXC relief (concave, convex, none): concave gion: Cook Inlet Mountains ap Unit Name: imatic/hydrologic conditions on the site typical for this tivegetation , Soil , or Hydrology , or Hydrology , Soil , or Hydrology , or Hydrology , Soil , or Hydrology , Soil Hydrophytic Vegetation Present? Yes No , No , Wetland Hydrology Present? Yes No , No	rant/Owner: Alaska Energy Authority igator(s): SLI, TXC relief (concave, convex, none): concave gion: Cook Inlet Mountains	ant/Owner: Alaska Energy Authority igator(s): SLI, TXC	ant/Owner: Alaska Energy Authority igator(s): SLI, TXC relief (concave, convex, none): concave Slope: 3.5 % / 2.0 gion: Cook Inlet Mountains ap Unit Name: imatic/hydrologic conditions on the site typical for this time of year? Yes No

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SOIL Sampling Point: SW15_T328_04

Donth		the depth r	needed to doci	ument the in	ndicator or con Red	ox Featu		cators)		
Depth (inches)	Color (me	oist)	%	Color (r	moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2.5			100						Fibric Organics	Oi horizon
2.5-4			100						Hemic Organics	Oe horizon
4-5			100						Sapric Organics	Oa horizon
5-8	10YR	4/3	75	10YR	2/1	25			Silt Loam	stratified mineral with buried organic
										horizons
8-16		4/4	90	10YR		10		M	Silt Loam	10YR2/1 is A material. buried charcoal (wildfire)
										_
										_
¹Type: C=Con	centration. D	=Depletio	n. RM=Redu	ced Matrix	² Location	: PL=Pore	e Lining. RO	=Root Cha	nnel. M=Matrix	
Hydric Soil In	ndicators			Indicat	tors for Pro	blematic	: Hydric S	oils:3		
Histosol or					ska Color Ch		4		Alaska Gleyed Without I	due 5Y or Redder
Histic Epipe	` '				ska Alpine sv		-		Underlying Layer	ide 31 of Redder
=	Sulfide (A4)				ska Redox W	-	-		Other (Explain in Rema	rks)
_ , ,	Surface (A12	2)								
Alaska Gley	yed (A13)			³ One i	indicator of appropriate	hydrophyt Plandscar	ic vegetation	on, one prin	nary indicator of wetland	hydrology,
Alaska Red	lox (A14)								COCIT	
Alaska Gley	yed Pores (A1	.5)		4 Give	details of co	lor change	e in Remark	(S		
Restrictive Laye	r (if present):	:								
Type:									Hydric Soil Presen	t? Yes ○ No •
Depth (inch	es):									
Remarks:										
Remarks: no hydric soil ind	dicators									
	dicators									
	dicators									
	dicators									
no hydric soil ind										
	GY	ators:							Secondary Inc	licators (two or more are required)
no hydric soil ind	GY rology Indica		nt)							licators (two or more are required)_ ined Leaves (B9)
HYDROLOG Wetland Hydr	GY rology Indica tors (any one		nt)	In	nundation Vi	sible on A	erial Image	ry (B7)	Water Sta	
HYDROLOG Wetland Hydr Primary Indicat Surface Wa	GY rology Indica tors (any one		nt)		nundation Vi parsely Vege		-		Water Sta	nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
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