## WETLAND DETERMINATION DATA FORM - Alaska Region

/Site: Susitna-Watana Hydroelectric Project		Borough/Cit	ty: Matanusk	ka-Susitna Borough Sampling Date: 22-Jun-12
ant/Owner: Alaska Energy Authority				Sampling Point: SW12_T18_07
		Landform	(hillside, terrac	ce, hummocks etc.): Gulch or Gully
		Slope:		2 ° Elevation: 767
· · · · · · · · · · · · · · · · · · ·	Lat.:	- · 62 849728	 3262	Long.: -149.210485689 Datum: NAD83
		02.040720	<u> </u>	NWI classification: PSS1B
	ima af va		/os (a) No (	
	•			(If no, explain in Remarks.)  Normal Circumstances" present? Yes   No ○
	•	•		tornar orreamstances present:
			·	eded, explain any answers in Remarks.)
MARY OF FINDINGS - Attach site map sho	wing sa	mpling po	oint locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Yes   No	)		la tha Cam	anlad Avaa
,				
				- Citaria i
arks: small intermittent stream flowing through comm	unity, abo	ve ground p	ortions 2-4in d	leep, 6-12in wide.
TATION - Use scientific names of plants. L	ist all sr	ecies in t	he plot.	
				Dominance Test worksheet:
e Stratum				Number of Dominant Species
	0			That are OBL, FACW, or FAC: 5 (A)
	0			Total Number of Dominant Species Across All Strata: 5 (B)
	_			Percent of dominant Species
				That Are OBL, FACW, or FAC: 100.0% (A/B)
	0			Prevalence Index worksheet:
Total Cover	r: <u> </u>	_		Total % Cover of: Multiply by:
ling/Shrub Stratum 50% of Total Cover:	0 20	% of Total Co	over:0	OBL Species0 x 1 =0
Salix pulchra	35	· •	FACW	FACW Species 50 x 2 = 100
Salix commutata	- — 35		FAC	FAC Species69 x 3 =207
Alnus incana	. 5	_	FAC	FACU Species <u>8</u> x 4 = <u>32</u>
Connector on minutes			FAC	UPL Species <u>1</u> x 5 = <u>5</u>
Colin reticulate			FAC	Column Totals: <u>128</u> (A) <u>344</u> (B)
Spiraea stevenii	3		FACU	
Cassiope tetragona	1		FACU	Prevalence Index = B/A = 2.688
	0			Hydrophytic Vegetation Indicators:
	0			✓ Dominance Test is > 50%
				✓ Dominance Test is > 50%
	0	_		✓ Prevalence Index is ≤ 3.0
Total Cover	r: <u>83</u>	_		<ul> <li>✓ Prevalence Index is ≤3.0</li> <li>☐ Morphological Adaptations <sup>1</sup> (Provide supporting data in</li> </ul>
<b>b Stratum</b> 50% of Total Cover:	r: <u>83</u> 41.5 20	0% of Total Co		<ul> <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>
b Stratum 50% of Total Cover:	r: 83 41.5 20	0% of Total Co	FACW	<ul> <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>
b Stratum 50% of Total Cover: Dodecatheon jeffreyi Calamagrostis canadensis	7 10	0% of Total Co	FACW FAC	<ul> <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>Indicators of hydric soil and wetland hydrology must</li> </ul>
b Stratum 50% of Total Cover:  Dodecatheon jeffreyi  Calamagrostis canadensis  Sanguisorba officinalis	7 10 3	0% of Total Co	FACW FAC FACW	<ul> <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>
b Stratum 50% of Total Cover:  Dodecatheon jeffreyi  Calamagrostis canadensis  Sanguisorba officinalis  Pyrola minor	7 10 3	0% of Total Co	FACW FAC FACW	<ul> <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>Indicators of hydric soil and wetland hydrology must</li> </ul>
b Stratum 50% of Total Cover:	7 10 3 7 10	0% of Total Co	FACW FAC FACW FAC	<ul> <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>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> <li>Plot size (radius, or length x width)</li> <li>Cover of Wetland Bryophytes</li> </ul>
Dodecatheon jeffreyi Calamagrostis canadensis Sanguisorba officinalis Pyrola minor Neottia cordata Rhodiola integrifolia	7 10 3	0% of Total Co	FACW FAC FACU FACU FACU	<ul> <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>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> <li>Plot size (radius, or length x width)</li> <li>½ Cover of Wetland Bryophytes (Where applicable)</li> </ul>
Dodecatheon jeffreyi Calamagrostis canadensis Sanguisorba officinalis Pyrola minor Neottia cordata Rhodiola integrifolia Mertensia paniculata	7 10 3 7 10	0% of Total Co	FACW FAC FACU FACU FACU FACU	Prevalence Index is ≤3.0  Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation¹ (Explain)  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  20
Dodecatheon jeffreyi Calamagrostis canadensis Sanguisorba officinalis Pyrola minor Neottia cordata Rhodiola integrifolia Mertensia paniculata Anemone richardsonii	7 10 3 7 10	0% of Total Co	FACW FAC FACU FACU FACU	<ul> <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>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</li> <li>Plot size (radius, or length x width)</li> <li>½ Cover of Wetland Bryophytes (Where applicable)</li> </ul>
Dodecatheon jeffreyi Calamagrostis canadensis Sanguisorba officinalis Pyrola minor Neottia cordata Rhodiola integrifolia Mertensia paniculata	7 10 3 7 10	0% of Total Co	FACW FAC FACU FAC FACU FAC FACU FAC	Prevalence Index is ≤3.0  Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  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  Total Cover of Bryophytes  75
Dodecatheon jeffreyi Calamagrostis canadensis Sanguisorba officinalis Pyrola minor Neottia cordata Rhodiola integrifolia Mertensia paniculata Anemone richardsonii Equisetum palustre	7 41.5 20 7 10 3 7 1 3 3 5 5	0% of Total Co	FACW FAC FACU FAC FACU FAC FACU FAC FACU FAC	Prevalence Index is ≤3.0  Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  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  20
	gator(s): SLI, EKJ relief (concave, convex, none): undulating gion: Southcentral Alaska ap Unit Name: matic/hydrologic conditions on the site typical for this to //egetation	gator(s): SLI, EKJ relief (concave, convex, none): undulating gion: Southcentral Alaska	gator(s): SLI, EKJ Landform Slope: elleif (concave, convex, none): undulating Slope: gion: Southcentral Alaska Lat.: 62.849728 pp Unit Name: matic/hydrologic conditions on the site typical for this time of year? Alaska pulnit Name: matic/hydrologic conditions on the site typical for this time of year? Alaska pi Unit Name: matic/hydrologic conditions on the site typical for this time of year? Alaska pi Unit Name: matic/hydrologic conditions on the site typical for this time of year? Alaska pi Unit Name: matic/hydrology significantly disturbed in aturally problematic? MARY OF FINDINGS - Attach site map showing sampling possible. The problematic of the p	gator(s): SLI, EKJ  relief (concave, convex, none): undulating  gion : Southcentral Alaska  Lat:: 62.849728262  Total Cover: 0  Absolute  Wetland Hydrology Present? Yes No  Wetland Hydrology Present? Yes No  Barks: small intermittent stream flowing through community, above ground portions 2-4in of the stratum  Estratum  Total Cover: 0  Salix pulchra  Salix commutata  Alnus incana  Empetrum nigrum  Salix reticulata  Spiraea stevenii  Cassiope tetragona  Lat:: 62.849728262  Landform (hillside, terracy Slope: % / 9.2  Are "No O Industry disturbed? Are "No O Indus

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SOIL Sampling Point: SW12\_T18\_07

Profile Description  Depth		Matrix				ox Featu				
(inches)	Color (mo	oist)	%	Color (m	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-1			100						Fibric Organics	
1-2			100						Hemic Organics	
2-15	5Y	5/1	60	10YR	4/6	40	C	PL	Sandy Clay	few coarse sand to rounded gravels
										_
										_
										_
										_
									-	
										_
¹Type: C=Cond	centration. D	=Depletion	. RM=Reduc						nnel. M=Matrix	
Hydric Soil In	dicators:						Hydric So	oils:³		
Histosol or I	Histel (A1)				ka Color Ch		-		Alaska Gleyed Without	Hue 5Y or Redder
Histic Epipe					ka Alpine sv	•	,		Underlying Layer	
Hydrogen S	` ,			Alas	ka Redox W	/ith 2.5Y F	lue		Other (Explain in Rema	rks)
	Surface (A12	)		3 One ii	ndicator of	hvdronhvt	ic vegetatio	n. one prin	nary indicator of wetland	hydrology.
Alaska Gley	• •						e position i			nyurology,
✓ Alaska Redo	` '	<b>5</b> \		4 Give o	details of co	lor change	e in Remark	S		
Alaska Gley	ed Pores (A1	5)								
Restrictive Layer	r (if present):									
Type:									Hydric Soil Presen	t? Yes • No O
	٠٠)،									
Depth (inche	predominantly		ered boulde	ers w small	areas of th	icker mine	eral soils be	tween. few	gleyed pores and oxidize	ed rhizospheres around living roots in
Depth (inche Remarks: old talus field - p	predominantly		ered boulde	ers w small	areas of th	icker mine	eral soils be	tween. few	gleyed pores and oxidize	ed rhizospheres around living roots in
Depth (inche Remarks: old talus field - p	predominantly ineral soil (<2		ered boulde	ers w small	areas of th	icker mine	eral soils be	tween. few	gleyed pores and oxidize	ed rhizospheres around living roots in
Depth (inche Remarks: old talus field - p upper 12in of mi	predominantly ineral soil (<2 GY ology Indica	2%). ators:		ers w small	areas of th	icker mine	eral soils be	tween. few	_Secondary Inc	dicators (two or more are required)
Depth (inches Remarks:  old talus field - pupper 12in of minimals  HYDROLOG  Wetland Hydro  Primary Indicator	gredominantly ineral soil (<	2%). ators:							Secondary In	dicators (two or more are required) ained Leaves (B9)
Depth (inches Remarks:  Did talus field - pupper 12in of minimal proper 12in of minimal pro	GY ology Indicators (any one ater (A1)	2%). ators:			undation Vi	sible on A	erial Image	ry (B7)	Secondary In Water St	dicators (two or more are required) nined Leaves (B9) Patterns (B10)
Depth (inches Remarks:  Did talus field - pupper 12in of minimals	GY ology Indicators (any one ater (A1) r Table (A2)	2%). ators:		☐ In:	undation Vi arsely Vege	sible on A		ry (B7)	Secondary In Water St Drainage Oxidized	dicators (two or more are required) nined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3)
Depth (inches Remarks:  Did talus field - pupper 12in of minimal primary Indicated Surface Waller High Water  Saturation	GY ology Indicators (any one ater (A1) r Table (A2) (A3)	2%). ators:		☐ In:	undation Vi arsely Vege arl Deposits	sible on Ar etated Con (B15)	erial Image ncave Surfac	ry (B7)	Secondary Inc Water St Drainage Oxidized Presence	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4)
Depth (inche Remarks:  Did talus field - pupper 12in of mi  Netland Hydro Primary Indicate Surface Wa High Water Saturation Water Mark	gy ology Indicators (any one ater (A1) r Table (A2) (A3) ks (B1)	2%). ators:		☐ Ini ☐ Sp ☐ Ma ☐ Hy	undation Vi arsely Vege arl Deposits drogen Sul	sible on Ar etated Con (B15) fide Odor	erial Image ncave Surfac (C1)	ry (B7)	Secondary Inc  Water St  Drainage  Oxidized  Presence	dicators (two or more are required) sined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5)
Depth (inche Remarks:  Did talus field - pupper 12in of mi  IYDROLOG  Wetland Hydro  Primary Indicato  Surface Wa  High Water  Saturation  Water Mark  Sediment D	predominantly ineral soil (<2  GY  ology Indicators (any one ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2)	2%). ators:		Ini Sp Hy	undation Vi arsely Vege arl Deposits rdrogen Sul y-Season W	sible on Adetated Con (B15) fide Odor Vater Tablo	erial Image Icave Surfac (C1) e (C2)	ry (B7)	Secondary Inc  Water St  Drainage  Oxidized  Presence  Salt Depo	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) osits (C5) or Stressed Plants (D1)
Depth (inche Remarks:  Did talus field - pupper 12in of mi  AYDROLOG  Wetland Hydro Primary Indicator Surface Water High Water Saturation Water Mark Sediment D Drift Depos	GY  ology Indicators (any one ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3)	2%). ators:		Ini Sp Hy	undation Vi arsely Vege arl Deposits drogen Sul	sible on Adetated Con (B15) fide Odor Vater Tablo	erial Image Icave Surfac (C1) e (C2)	ry (B7)	Secondary Inc  Water St  Drainage  Oxidized  Presence  Salt Depo  Stunted of	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) asits (C5) or Stressed Plants (D1) hic Position (D2)
Depth (inche Remarks:  Did talus field - pupper 12in of mi  Surpper 12in of mi  Wetland Hydro  Primary Indicator  Surface Water  High Water  Saturation  Water Mark  Sediment D  Drift Depos  Algal Mat o	GY ology Indicators (any one ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	2%). ators:		Ini Sp Hy	undation Vi arsely Vege arl Deposits rdrogen Sul y-Season W	sible on Adetated Con (B15) fide Odor Vater Tablo	erial Image Icave Surfac (C1) e (C2)	ry (B7)	Secondary In  Water St  Drainage  Oxidized  Presence  Salt Depo  Stunted of  Geomorp  Shallow	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) equitard (D3)
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Depth (inche Remarks:  Did talus field - pupper 12in of mi  EXPOROLOG  Wetland Hydro Primary Indicator Surface Water High Water Saturation Water Mark Sediment Depose Algal Mat of Iron Depose Surface Soi	GY ology Indicators (any one ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) oil Cracks (B6) tions:	ators: is sufficien		Ini Sp Ma Hy Dr	undation Vi arsely Vege arl Deposits rdrogen Sul y-Season W	sible on Adetated Con (B15) fide Odor Vater Table n in Remai	erial Image Icave Surfac (C1) e (C2)	ry (B7)	Secondary In  Water St  Drainage  Oxidized  Presence  Salt Depo  Stunted of  Geomorp  Shallow A	dicators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) osits (C5) or Stressed Plants (D1) hic Position (D2) equitard (D3) ographic Relief (D4)
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Depth (inche Remarks:  Did talus field - pupper 12in of mi  Surpper 12in of mi  Wetland Hydro Primary Indicator Surface Water Saturation Water Mark Sediment D Drift Depos Algal Mat o Iron Depos Surface Soi Field Observat Surface Water	GY ology Indicators (any one ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) bil Cracks (B6) tions: Present?	Yes Yes	t) No  No  No  No  No	Ini Sp Ma Hy Dr Ot	undation Vi arsely Vege arl Deposits rdrogen Sul y-Season W her (Explain epth (inches	sible on Adetated Con (B15) fide Odor Vater Table on in Reman	erial Image Icave Surfac (C1) e (C2)	ry (B7) ce (B8)	Secondary Inc  Water St  Drainage  Oxidized  Presence  Salt Depo  Stunted of  Geomorp  Shallow of  Microtop  FAC-neut	dicators (two or more are required) sined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) Aquitard (D3) orgraphic Relief (D4) ral Test (D5)
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Depth (inche Remarks:  Did talus field - pupper 12in of mi  Surpper 12in of mi  Wetland Hydro  Primary Indicator  Surface Water  Saturation  Water Mark  Sediment D  Drift Depos  Algal Mat o  Iron Depos  Surface Soi  Field Observat  Surface Water  Water Table Presaturation Pres	predominantly ineral soil (<2  GY  ology Indicators (any one ater (A1) r Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) or Crust (B4) tions: Present? resent? sent?	Yes Yes Yes	t) No • No • No • No •	Ini Sp Ma Hy Dr Ot	undation Vi arsely Vege arl Deposits drogen Sul y-Season W her (Explain epth (inches	sible on Aretated Con (B15) fide Odor Vater Table in in Remai	erial Image acave Surfac (C1) e (C2) rks)	ry (B7) ce (B8) Wetla	Secondary Inc  Water St  Drainage  Oxidized  Presence  Salt Depo  Stunted of  Geomorp  Shallow of  Microtop  FAC-neut	dicators (two or more are required) sined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3) of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) hic Position (D2) Aquitard (D3) orgraphic Relief (D4) ral Test (D5)
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