

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 24-Aug-15
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW15_T324_05
 Investigator(s): ERT, TXC Landform (hillside, terrace, hummocks etc.): Mid-Backslope
 Local relief (concave, convex, none): undulating Slope: 34.4 % / 19.0 ° Elevation: _____
 Subregion: Cook Inlet Mountains Lat.: _____ Long.: _____ Datum: WGS84
 Soil Map Unit Name: _____ **NWI classification: Upland**

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks:	

VEGETATION -Use scientific names of plants. List all species in the plot.

	Absolute % Cover	Dominant Species?	Indicator Status	
Tree Stratum				Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)
1. <u>Picea glauca</u>	<u>32</u>	<input checked="" type="checkbox"/>	FACU	
2. <u>Betula papyrifera</u>	<u>7</u>	<input type="checkbox"/>	FACU	
3. _____	<u>0</u>	<input type="checkbox"/>	_____	
4. _____	<u>0</u>	<input type="checkbox"/>	_____	
5. _____	<u>0</u>	<input type="checkbox"/>	_____	
Total Cover:		<u>39</u>		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL Species <u>0</u> x 1 = <u>0</u> FACW Species <u>0</u> x 2 = <u>0</u> FAC Species <u>80</u> x 3 = <u>240</u> FACU Species <u>83.2</u> x 4 = <u>332.8</u> UPL Species <u>0</u> x 5 = <u>0</u> Column Totals: <u>163.2</u> (A) <u>572.8</u> (B) Prevalence Index = B/A = <u>3.510</u>
Sapling/Shrub Stratum		50% of Total Cover: <u>19.5</u>	20% of Total Cover: <u>7.8</u>	
1. <u>Alnus viridis</u>	<u>70</u>	<input checked="" type="checkbox"/>	FAC	
2. <u>Viburnum edule</u>	<u>15</u>	<input type="checkbox"/>	FACU	
3. <u>Ribes triste</u>	<u>5</u>	<input type="checkbox"/>	FAC	
4. <u>Rosa acicularis</u>	<u>2</u>	<input type="checkbox"/>	FACU	
5. <u>Spiraea stevenii</u>	<u>1</u>	<input type="checkbox"/>	FACU	
6. <u>Linnaea borealis</u>	<u>1</u>	<input type="checkbox"/>	FACU	
7. <u>Oplopanax horridus</u>	<u>0.1</u>	<input type="checkbox"/>	FACU	
8. _____	<u>0</u>	<input type="checkbox"/>	_____	
9. _____	<u>0</u>	<input type="checkbox"/>	_____	
10. _____	<u>0</u>	<input type="checkbox"/>	_____	
Total Cover:		<u>94.1</u>		
Herb Stratum		50% of Total Cover: <u>47.05</u>	20% of Total Cover: <u>18.82</u>	Hydrophytic Vegetation Indicators: <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤ 3.0 <input type="checkbox"/> Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Phegopteris connectilis</u>	<u>15</u>	<input checked="" type="checkbox"/>	FACU	
2. <u>Cornus canadensis</u>	<u>4</u>	<input checked="" type="checkbox"/>	FACU	
3. <u>Calamagrostis canadensis</u>	<u>3</u>	<input type="checkbox"/>	FAC	
4. <u>Dryopteris expansa</u>	<u>2</u>	<input type="checkbox"/>	FACU	
5. <u>Spinulum annotinum</u>	<u>2</u>	<input type="checkbox"/>	FACU	
6. <u>Gymnocarpium dryopteris</u>	<u>1</u>	<input type="checkbox"/>	FACU	
7. <u>Equisetum arvense</u>	<u>1</u>	<input type="checkbox"/>	FAC	
8. <u>Chamaenerion angustifolium</u>	<u>1</u>	<input type="checkbox"/>	FACU	
9. <u>Pyrola grandiflora</u>	<u>1</u>	<input type="checkbox"/>	FAC	
10. <u>Mertensia paniculata</u>	<u>0.1</u>	<input type="checkbox"/>	FACU	
Total Cover:		<u>30.1</u>		
50% of Total Cover:		<u>15.05</u>	20% of Total Cover: <u>6.02</u>	
Remarks:				Plot size (radius, or length x width) <u>10m</u> % Cover of Wetland Bryophytes (Where applicable) <u>0</u> % Bare Ground <u>0</u> Total Cover of Bryophytes <u>30</u> Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>

