

**WETLAND DETERMINATION DATA FORM - Alaska Region**

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 02-Aug-13  
 Applicant/Owner: Alaska Energy Authority Sampling Point: **SW13\_T162\_08**  
 Investigator(s): WAD, RWM Landform (hillside, terrace, hummocks etc.): Hillside  
 Local relief (concave, convex, none): convex Slope: 17.6 % / 10.0 ° Elevation: 1401  
 Subregion: Interior Alaska Mountains Lat.: 63.115946174 Long.: -148.102248549 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"/><br>Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/><br>Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | <b>Is the Sampled Area within a Wetland?</b><br>Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks:  |   |

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

| <u>Tree Stratum</u>                           | Absolute % Cover              | Dominant Species?                   | Indicator Status | <b>Dominance Test worksheet:</b>  |
|---|-------------------------------|-------------------------------------|------------------|---|
| 1. _____                                      | 0                             | <input type="checkbox"/>            | _____            | Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A)   |
| 2. _____                                      | 0                             | <input type="checkbox"/>            | _____            | Total Number of Dominant Species Across All Strata: <u>5</u> (B)  |
| 3. _____                                      | 0                             | <input type="checkbox"/>            | _____            | Percent of dominant Species That Are OBL, FACW, or FAC: <u>40.0%</u> (A/B)  |
| 4. _____                                      | 0                             | <input type="checkbox"/>            | _____            |   |
| 5. _____                                      | 0                             | <input type="checkbox"/>            | _____            |   |
| <b>Total Cover:</b>                           |                               |                                     | <u>0</u>         |   |
| <b>Sapling/Shrub Stratum</b>                  | 50% of Total Cover: <u>0</u>  | 20% of Total Cover: <u>0</u>        |                  | <b>Prevalence Index worksheet:</b>  |
| 1. <u>Dryas octopetala</u>                    | 10                            | <input checked="" type="checkbox"/> | UPL              | Total % Cover of: Multiply by:  |
| 2. <u>Salix reticulata</u>                    | 5                             | <input type="checkbox"/>            | FAC              | OBL Species <u>0</u> x 1 = <u>0</u>   |
| 3. <u>Loiseleuria procumbens</u>              | 5                             | <input type="checkbox"/>            | FACU             | FACW Species <u>0</u> x 2 = <u>0</u>  |
| 4. <u>Salix arctica</u>                       | 5                             | <input type="checkbox"/>            | FACU             | FAC Species <u>21</u> x 3 = <u>63</u>   |
| 5. <u>Vaccinium vitis-idaea</u>               | 10                            | <input checked="" type="checkbox"/> | FAC              | FACU Species <u>48</u> x 4 = <u>192</u>   |
| 6. <u>Cassiope tetragona</u>                  | 35                            | <input checked="" type="checkbox"/> | FACU             | UPL Species <u>12</u> x 5 = <u>60</u>   |
| 7. _____                                      | 0                             | <input type="checkbox"/>            | _____            | Column Totals: <u>81</u> (A) <u>315</u> (B)   |
| 8. _____                                      | 0                             | <input type="checkbox"/>            | _____            | Prevalence Index = B/A = <u>3.889</u>   |
| 9. _____                                      | 0                             | <input type="checkbox"/>            | _____            |   |
| 10. _____                                     | 0                             | <input type="checkbox"/>            | _____            |   |
| <b>Total Cover:</b>                           |                               |                                     | <u>70</u>        | <b>Hydrophytic Vegetation Indicators:</b>   |
| <b>Herb Stratum</b>                           | 50% of Total Cover: <u>35</u> | 20% of Total Cover: <u>14</u>       |                  | <input type="checkbox"/> Dominance Test is > 50%  |
| 1. <u>Antennaria monocephala</u>              | 1                             | <input type="checkbox"/>            | UPL              | <input type="checkbox"/> Prevalence Index is ≤ 3.0  |
| 2. <u>Anthoxanthum monticola ssp. alpinum</u> | 1                             | <input type="checkbox"/>            | FACU             | <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) |
| 3. <u>Carex bigelowii</u>                     | 5                             | <input checked="" type="checkbox"/> | FAC              | <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  |
| 4. <u>Bistorta plumosa</u>                    | 2                             | <input checked="" type="checkbox"/> | FACU             | <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.              |
| 5. <u>Silene acaulis</u>                      | 1                             | <input type="checkbox"/>            | UPL              | Plot size (radius, or length x width) <u>10m</u>  |
| 6. <u>Poa arctica</u>                         | 1                             | <input type="checkbox"/>            | FAC              | % Cover of Wetland Bryophytes (Where applicable) _____  |
| 7. _____                                      | 0                             | <input type="checkbox"/>            | _____            | % Bare Ground _____   |
| 8. _____                                      | 0                             | <input type="checkbox"/>            | _____            | Total Cover of Bryophytes _____   |
| 9. _____                                      | 0                             | <input type="checkbox"/>            | _____            |   |
| 10. _____                                     | 0                             | <input type="checkbox"/>            | _____            |   |
| <b>Total Cover:</b>                           |                               |                                     | <u>11</u>        | <b>Hydrophytic Vegetation Present?</b> Yes <input type="radio"/> No <input checked="" type="radio"/>                        |
| 50% of Total Cover:                           | <u>5.5</u>                    | 20% of Total Cover:                 | <u>2.2</u>       |   |

Remarks: rosacea collectec 1.

