

WETLAND DETERMINATION DATA FORM - Alaska Region

Project/Site: Susitna-Watana Hydroelectric Project Borough/City: Matanuska-Susitna Borough Sampling Date: 05-Aug-12
 Applicant/Owner: Alaska Energy Authority Sampling Point: SW12_T34_06
 Investigator(s): SLI, KMK Landform (hillside, terrace, hummocks etc.): Footslope
 Local relief (concave, convex, none): concave Slope: 0.0 % / 2.0 ° Elevation: 1122
 Subregion: Southcentral Alaska Lat.: 62.8934482453 Long.: -148.684241644 Datum: WGS84
 Soil Map Unit Name: _____ **NWI classification: PEM1F**

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 checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/> |
| Remarks: possibly PEM1E rather than F? heavy rain over previous few days. | |

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

| <u>Tree Stratum</u> | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet: |
|------------------------------------|-------------------------------|-------------------------------------|------------------|---|
| 1. _____ | 0 | <input type="checkbox"/> | _____ | Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) |
| 2. _____ | 0 | <input type="checkbox"/> | _____ | |
| 3. _____ | 0 | <input type="checkbox"/> | _____ | |
| 4. _____ | 0 | <input type="checkbox"/> | _____ | |
| 5. _____ | 0 | <input type="checkbox"/> | _____ | |
| Total Cover: <u>0</u> | | | | Prevalence Index worksheet: Total % Cover of: _____ Multiply by: OBL Species <u>45</u> x 1 = <u>45</u> FACW Species <u>33</u> x 2 = <u>66</u> FAC Species <u>10</u> x 3 = <u>30</u> FACU Species <u>0</u> x 4 = <u>0</u> UPL Species <u>0</u> x 5 = <u>0</u> Column Totals: <u>88</u> (A) <u>141</u> (B) Prevalence Index = B/A = <u>1.602</u> |
| <u>Sapling/Shrub Stratum</u> | 50% of Total Cover: <u>0</u> | 20% of Total Cover: <u>0</u> | | |
| 1. _____ | 0 | <input type="checkbox"/> | _____ | |
| 2. _____ | 0 | <input type="checkbox"/> | _____ | |
| 3. _____ | 0 | <input type="checkbox"/> | _____ | |
| 4. _____ | 0 | <input type="checkbox"/> | _____ | |
| 5. _____ | 0 | <input type="checkbox"/> | _____ | |
| 6. _____ | 0 | <input type="checkbox"/> | _____ | |
| 7. _____ | 0 | <input type="checkbox"/> | _____ | |
| 8. _____ | 0 | <input type="checkbox"/> | _____ | |
| 9. _____ | 0 | <input type="checkbox"/> | _____ | |
| 10. _____ | 0 | <input type="checkbox"/> | _____ | |
| Total Cover: <u>0</u> | | | | |
| <u>Herb Stratum</u> | 50% of Total Cover: <u>0</u> | 20% of Total Cover: <u>0</u> | | |
| 1. <u>Carex rotundata</u> | 30 | <input checked="" type="checkbox"/> | OBL | |
| 2. <u>Trichophorum caespitosum</u> | 5 | <input type="checkbox"/> | OBL | |
| 3. <u>Eriophorum scheuchzeri</u> | 5 | <input type="checkbox"/> | OBL | |
| 4. <u>Equisetum palustre</u> | 1 | <input type="checkbox"/> | FACW | |
| 5. <u>Carex bigelowii</u> | 10 | <input type="checkbox"/> | FAC | |
| 6. <u>Carex saxatilis</u> | 30 | <input checked="" type="checkbox"/> | FACW | |
| 7. <u>Eriophorum angustifolium</u> | 5 | <input type="checkbox"/> | OBL | |
| 8. _____ | 0 | <input type="checkbox"/> | _____ | |
| 9. _____ | 0 | <input type="checkbox"/> | _____ | |
| 10. <u>Salix pulchra</u> | 2 | <input type="checkbox"/> | FACW | |
| Total Cover: <u>88</u> | | | | |
| | 50% of Total Cover: <u>44</u> | 20% of Total Cover: <u>17.6</u> | | |

Hydrophytic Vegetation Indicators:
 Dominance Test is > 50%
 Prevalence Index is ≤ 3.0
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Plot size (radius, or length x width) 5m
 % Cover of Wetland Bryophytes (Where applicable) _____
 % Bare Ground _____
 Total Cover of Bryophytes _____

Hydrophytic Vegetation Present? Yes No

Remarks: salpul grouped with herbs for dominance test, as total shrub cover <5%

