## WETLAND DETERMINATION DATA FORM - Alaska Region

|  | tna Borough Sampling Date: 06-Jul-13   |  |  |
|--|--|--|--|
| Applicant/Owner: Alaska Energy Authority   | Sampling Point: SW13_T103_04   |  |  |
| Investigator(s): WAD, BAB Landform (hillside, terrace, hum   |  |  |  |
|  | Elevation: 803   |  |  |
|  | .: -147.809318185 Datum: NAD83   |  |  |
|  |  |  |  |
| Soil Map Unit Name:  Are climatic/hydrologic conditions on the site typical for this time of year?  Yes ● No ○ ( | NWI classification: Upland   |  |  |
| Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal of                                     | (If no, explain in Remarks.)  Circumstances" present? Yes   No  xplain any answers in Remarks.)    |  |  |
| Hydrophytic Vegetation Present? Yes ● No ○   |  |  |  |
| S Is the Sampled   |  |  |  |
| o o within a Wetland   | etland? Yes O No 🗨   |  |  |
| Wetland Hydrology Present? Yes O No  Remarks:  |  |  |  |
| VEGETATION - Use scientific names of plants. List all species in the plot.  Absolute Dominant Indicator Domi     | inance Test worksheet:   |  |  |
| Tree Stratum % Cover Species? Status Numb  | ber of Dominant Species  |  |  |
| 1. Picea glauca 2   FACU   | are OBL, FACW, or FAC: (A)   |  |  |
|  | Number of Dominant ies Across All Strata: 2 (B)  |  |  |
| 3. 0 Perce   | ent of dominant Species  |  |  |
|  | Are OBL, FACW, or FAC: 100.0% (A/B)  |  |  |
| 5 0 Preva  | alence Index worksheet:  |  |  |
| 7.1.10   | Total % Cover of: Multiply by:   |  |  |
| Sapling/Shrub Stratum 50% of Total Cover: 1 20% of Total Cover: 0.4  | OBL Species0 x 1 =0  |  |  |
| 1. Betula nana 45 🗹 FAC  | FACW Species <u>15.1</u> x 2 = <u>30.20</u>  |  |  |
| 2. Vaccinium uliginosum 20 ✔ FAC   | FAC Species <u>77.1</u> x 3 = <u>231.3</u>   |  |  |
| 3. Rhododendron tomentosum 15 FACW   | FACU Species <u>4.2</u> x 4 = <u>16.8</u>  |  |  |
| 4. Empetrum nigrum 8 FAC   | UPL Species 0 x 5 = 0  |  |  |
| 5. Vaccinium vitis-idaea 3 FAC   | Column Totals: <u>96.4</u> (A) <u>278.3</u> (B)  |  |  |
| 6. Picea glauca 2 FACU   |  |  |  |
| 7. Spiraea stevenii 0.1 FACU   | Prevalence Index = B/A =   |  |  |
|  | ophytic Vegetation Indicators:   |  |  |
|  | Dominance Test is > 50%  |  |  |
|  | Prevalence Index is ≤3.0   |  |  |
| Total Cover: 93.1           Herb Stratum         50% of Total Cover: 46.55         20% of Total Cover: 18.62     | Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) |  |  |
| 1. Carex bigelowii 1 FAC   | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  |  |  |
|  | cators of hydric soil and wetland hydrology must   |  |  |
| 3. Pedicularis labradorica 0.1 FACW be pr  | be present, unless disturbed or problematic.   |  |  |
| 4. Chamaenerion angustifolium 0.1 FACU Plot s  | size (radius, or length x width)   |  |  |
| 0  | over of Wetland Bryophytes   |  |  |
| 6 (Whe   | ere applicable)  |  |  |
|  | are Ground   |  |  |
|  | Cover of Bryophytes  |  |  |
| 9  |  |  |  |
|  | rophytic   |  |  |
|  | etation<br>sent? Yes • No O  |  |  |
| 50% of Total Cover: <u>0.65</u> 20% of Total Cover: <u>0.26</u> <b>Pres</b>                                      |  |  |  |

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SOIL Sampling Point: SW13\_T103\_04

|  |   |               |          |   |   |                   |                    |   | 110 54415_1105_04                             |  |  |
|--|---|---------------|----------|---|---|-------------------|--------------------|---|---|--|--|
| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) |   |               |          |   |   |                   |                    |   |   |  |  |
| Depth<br>(inches)  | Matrix  |               |          | Redox Features  |   |                   |                    | -<br>Texture  | Remarks                                       |  |  |
| 0-2  | Color (mo   | oist)         | <u>%</u> | Color (moist)   |   | Type <sup>1</sup> | _Loc_ <sup>2</sup> | Fibric Organics   | Remarks                                       |  |  |
|  | 10VD  | 2/2           | 100      |   |   |                   |                    | Silt Loam   | high commitment                               |  |  |
| 2-3  | 10YR  | 2/2           | 100      |   | -   |                   |                    |   | high organic content                          |  |  |
| 3-5  | 10YR  | 3/3           | 100      |   |   |                   |                    | Sand  | 40% rounded coarse fragments                  |  |  |
| 5-12   | 7.5YR   | 3/3           | 100      |   |   |                   |                    | Loamy Sand  |   |  |  |
|  |   |               |          |   |   |                   |                    |   |   |  |  |
|  |   |               |          |   |   |                   |                    |   |   |  |  |
|  |   |               |          |   |   |                   |                    |   |   |  |  |
|  | -   |               |          |   |   |                   |                    |   |   |  |  |
| ¹Type: C=Con   | centration. D                                       | =Depletion    | RM=Redu  | ced Matrix <sup>2</sup> Location                          | n: PL=Por   | e Lining. RC      | =Root Cha          | nnel. M=Matrix  |   |  |  |
| Hydric Soil Ir   | ndicators:  |               |          | Indicators for Pi   | oblemati  | c Hydric So       | oils: <sup>3</sup> |   |   |  |  |
| Histosol or  | Histel (A1)   |               |          | Alaska Color C  |   | 4                 |                    | Alaska Gleyed Without H                                     | ue 5Y or Redder                               |  |  |
| Histic Epipe   | , ,   |               |          | Alaska Alpine s   |   |                   |                    |   | Underlying Layer                              |  |  |
| Hydrogen :   | Sulfide (A4)  |               |          | Alaska Redox V  | With 2.5Y   | Hue               |                    | Other (Explain in Remark                                    | (S)   |  |  |
| ☐ Thick Dark   | Surface (A12  | )             |          | 2.5   |   |                   |                    |   |   |  |  |
| Alaska Gle   | yed (A13)   |               |          | <ul> <li>One indicator of<br/>and an appropria</li> </ul> |   |                   |                    | nary indicator of wetland hesent                            | nydrology,                                    |  |  |
| Alaska Red   | ox (A14)  |               |          |   |   | •                 | ·                  |   |   |  |  |
| ☐ Alaska Gle   | yed Pores (A1                                       | 5)            |          | <sup>4</sup> Give details of c                            | olor chang  | e in Kemark       | is .               |   |   |  |  |
| Restrictive Laye   | r (if present):                                     |               |          |   |   |                   |                    |   |   |  |  |
| Type:  |   |               |          |   |   |                   |                    | <b>Hydric Soil Present</b>                                  | ? Yes ○ No •                                  |  |  |
| Depth (inch  | es):  |               |          |   |   |                   |                    |   |   |  |  |
| Remarks:   |   |               |          |   |   |                   |                    |   |   |  |  |
| no hydric soil in  | dicators  |               |          |   |   |                   |                    |   |   |  |  |
|  |   |               |          |   |   |                   |                    |   |   |  |  |
|  |   |               |          |   |   |                   |                    |   |   |  |  |
|  |   |               |          |   |   |                   |                    |   |   |  |  |
| LIVEROLO   | 0V  |               |          |   |   |                   |                    |   |   |  |  |
| HYDROLO Wetland Hydr   |   | torci         |          |   |   |                   |                    | CdTd:   | (b a  |  |  |
| Primary Indicat  |   |               | -)       |   |   |                   |                    |   | cators (two or more are required)             |  |  |
|  |   | is sufficient | .,       | Inundation \  | /icible on /  | orial Image       | n. (B7)            | ✓ Water Stained Leaves (B9)  (B7) □ Drainage Patterns (B10) |   |  |  |
|  | ☐ Surface Water (A1) ☐ High Water Table (A2)        |               |          |   | ☐ Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) |                   |                    |   | Oxidized Rhizospheres along Living Roots (C3) |  |  |
| Saturation (A3)  |   |               |          | Marl Deposits (B15)                                       |   |                   |                    | Presence of Reduced Iron (C4)                               |   |  |  |
| ☐ Water Mar  |   |               |          |   | Hydrogen Sulfide Odor (C1)  |                   |                    | ☐ Salt Depos  | ` ,   |  |  |
|  | Sediment Deposits (B2)  Dry-Season Water Table (C2) |               |          |   |   |                   |                    |   | Stressed Plants (D1)                          |  |  |
| ☐ Drift Depo   | sits (B3)   |               |          | Other (Expla  |   | , ,               |                    | Geomorph  | ic Position (D2)                              |  |  |
| Algal Mat  | or Crust (B4)                                       |               |          |   |   | ŕ                 |                    | Shallow Ac  | quitard (D3)                                  |  |  |
| ☐ Iron Depo  | sits (B5)   |               |          |   |   |                   |                    | Microtopog  | graphic Relief (D4)                           |  |  |
| Surface So   | oil Cracks (B6)                                     |               |          |   |   |                   |                    | FAC-neutra  | al Test (D5)                                  |  |  |
| Field Observa  | tions:  |               |          |   |   |                   |                    |   |   |  |  |
| Surface Water  | Present?  | Yes 🤇         | No 💿     | Depth (inche  | es):  |                   |                    |   |   |  |  |
| Water Table P  | resent?   | Yes C         | No 💿     | Depth (inche  | es):  |                   | Wetla              | nd Hydrology Presen   | t? Yes O No 💿                                 |  |  |
| Saturation Pre   |   | Ves C         | No 💿     | Depth (inche  | ).  |                   |                    |   |   |  |  |
| (includes capil  | lary fringe)  | 165 0         | 110 🔾    | Берит (піспе  | :5).  |                   |                    |   |   |  |  |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:              |   |               |          |   |   |                   |                    |   |   |  |  |
|  |   |               |          |   |   |                   |                    |   |   |  |  |
| Remarks:   |   |               |          |   |   |                   |                    |   |   |  |  |
| no hydrology in  | dicators obse                                       | rved          |          |   |   |                   |                    |   |   |  |  |
|  |   |               |          |   |   |                   |                    |   |   |  |  |
|  |   |               |          |   |   |                   |                    |   |   |  |  |
| İ  |   |               |          |   |   |                   |                    |   |   |  |  |

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