## WETLAND DETERMINATION DATA FORM - Alaska Region

|           | t/Owner: Alaska Energy Authority  |                     |                      |                     | Sampling Point: SW15_T301_02  |  |  |  |  |  |  |  |  |  |
|-----------|---|---------------------|----------------------|---------------------|---|--|--|--|--|--|--|--|--|--|
| Investiga |   |                     |                      |                     |   |  |  |  |  |  |  |  |  |  |
| •         | nvestigator(s): SLI, ATH Landform (hillside, terrace, hummocks etc.): Hillslope |                     |                      |                     |   |  |  |  |  |  |  |  |  |  |
| Local rel | lief (concave, convex, none): concave   |                     | Slope: 0.0           |                     |   |  |  |  |  |  |  |  |  |  |
|           | on : Interior Alaska Mountains  | Lat.:               |                      |                     | Long.: Datum: WGS84   |  |  |  |  |  |  |  |  |  |
| _         | Unit Name:  |                     |                      |                     |   |  |  |  |  |  |  |  |  |  |
| -         | <del></del>   |                     | C Voc                | No ○                | NWI classification: PEM1E   |  |  |  |  |  |  |  |  |  |
|           | atic/hydrologic conditions on the site typical for this tir                     |                     |                      |                     | (If no, explain in Remarks.)  ormal Circumstances" present? Yes ● No ○                |  |  |  |  |  |  |  |  |  |
|           |   |                     | / disturbed?         |                     | omar on our occurred procent.   |  |  |  |  |  |  |  |  |  |
|           | • • •   | • •                 | oblematic?           | `                   | ded, explain any answers in Remarks.)   |  |  |  |  |  |  |  |  |  |
| SUMM      | ARY OF FINDINGS - Attach site map show  | ving sam            | pling point          | locations           | s, transects, important features, etc.  |  |  |  |  |  |  |  |  |  |
| H         | Hydrophytic Vegetation Present? Yes   No ○                                      |                     |                      |                     |   |  |  |  |  |  |  |  |  |  |
|           | lydric Soil Present? Yes ● No ○   | )                   | Is                   | the Sam             | pled Area   |  |  |  |  |  |  |  |  |  |
|           | Vetland Hydrology Present? Yes ● No ○   | )                   | wi                   | ithin a W           | etland? Yes ◉ No ○  |  |  |  |  |  |  |  |  |  |
| Remark    | ,   |                     | ļ                    |                     |   |  |  |  |  |  |  |  |  |  |
| rtoman    |   |                     |                      |                     |   |  |  |  |  |  |  |  |  |  |
|           |   |                     |                      |                     |   |  |  |  |  |  |  |  |  |  |
| VEGE1     | <b>FATION</b> -Use scientific names of plants. Lis                              | st all spe          | cies in the          | nlot.               |   |  |  |  |  |  |  |  |  |  |
|           | 2111011 Ose scientific flames of plants. Els                                    | or an spe           |                      |                     | Dominance Test worksheet:   |  |  |  |  |  |  |  |  |  |
| Troo      | Stratum   | Absolute<br>% Cover | Dominant<br>Species? | Indicator<br>Status | Number of Dominant Species  |  |  |  |  |  |  |  |  |  |
| 1.        | <u> </u>  | 0                   |                      | <u> </u>            | That are OBL, FACW, or FAC: 4 (A)   |  |  |  |  |  |  |  |  |  |
| 2.        |   |                     |                      |                     | Total Number of Dominant  |  |  |  |  |  |  |  |  |  |
| 3.        |   | 0                   |                      |                     | Species Across All Strata: 4 (B)  |  |  |  |  |  |  |  |  |  |
| 4.        |   | 0                   |                      |                     | Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)                  |  |  |  |  |  |  |  |  |  |
| 5.        |   | 0                   |                      |                     |   |  |  |  |  |  |  |  |  |  |
| -         | Total Cover:  |                     |                      |                     | Prevalence Index worksheet:   |  |  |  |  |  |  |  |  |  |
| Sanlii    | ng/Shrub Stratum 50% of Total Cover:  |                     | of Total Cover:      | 0                   | Total % Cover of: Multiply by:  |  |  |  |  |  |  |  |  |  |
| Japin     | ig/siiiub sciacuiii   | 0 -5/-              |                      | -                   | OBL Species 28.1 x 1 = 28.1   |  |  |  |  |  |  |  |  |  |
| _         | Betula nana   | 3                   | <b>✓</b>             | FAC                 | FACW Species 23.1 x 2 = 46.20   |  |  |  |  |  |  |  |  |  |
| _         | Salix pulchra   |                     | <b>✓</b>             | FACW                | FACUSpecies 3 x3 = 9  |  |  |  |  |  |  |  |  |  |
| _         | Picea mariana   |                     |                      | FACW                | FACU Species 0 x 4 = 0  |  |  |  |  |  |  |  |  |  |
| _         | Andromeda polifolia(IAM)  | 0.1                 |                      | OBL                 | UPL Species <u>0</u> x 5 = <u>0</u>   |  |  |  |  |  |  |  |  |  |
| _         | Chamaedaphne calyculata   | 0.1                 |                      | FACW                | Column Totals: <u>54.2</u> (A) <u>83.30</u> (B)                                       |  |  |  |  |  |  |  |  |  |
| 6         |   |                     |                      |                     | Prevalence Index = B/A =1.537_  |  |  |  |  |  |  |  |  |  |
| 7. –      |   |                     |                      |                     |   |  |  |  |  |  |  |  |  |  |
| 8. –      |   |                     |                      |                     | Hydrophytic Vegetation Indicators:  |  |  |  |  |  |  |  |  |  |
|           |   |                     |                      |                     | ✓ Dominance Test is > 50%   |  |  |  |  |  |  |  |  |  |
| 10        | Total Cover:  |                     |                      |                     | ✓ Prevalence Index is ≤3.0  |  |  |  |  |  |  |  |  |  |
| Herb      | Stratum 50% of Total Cover:   |                     | of Total Cover       | : 1.24              | Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) |  |  |  |  |  |  |  |  |  |
|           |   | 25                  | <b>✓</b>             | OBL                 | Problematic Hydrophytic Vegetation (Explain)  |  |  |  |  |  |  |  |  |  |
| _         | 2   |                     | <b>✓</b>             | FACW                | Indicators of hydric soil and wetland hydrology must                                  |  |  |  |  |  |  |  |  |  |
| _         | Fauicotum fluviatilo  |                     |                      | OBL                 | be present, unless disturbed or problematic.  |  |  |  |  |  |  |  |  |  |
| J -       | Comorum poliuetro   |                     |                      | OBL                 |   |  |  |  |  |  |  |  |  |  |
| -         | Comarum paiusire  |                     |                      |                     | Plot size (radius, or length x width) 10m   |  |  |  |  |  |  |  |  |  |
|           |   | _                   |                      |                     | % Cover of Wetland Bryophytes (Where applicable)                                      |  |  |  |  |  |  |  |  |  |
|           |   | •                   |                      |                     | % Bare Ground 80  |  |  |  |  |  |  |  |  |  |
|           |   |                     |                      |                     | Total Cover of Bryophytes 15  |  |  |  |  |  |  |  |  |  |
|           |   |                     |                      |                     | 10th core: 0. 5.70ph/ccs  |  |  |  |  |  |  |  |  |  |
|           |   | 0                   |                      |                     | Hydrophytic   |  |  |  |  |  |  |  |  |  |
|           | Total Cover:  | 48                  |                      |                     | Vegetation  |  |  |  |  |  |  |  |  |  |
|           | 50% of Total Cover:   |                     | of Total Cover:      | 9.6                 | Present? Yes   No   |  |  |  |  |  |  |  |  |  |
|           |   |                     |                      |                     | <u></u>   |  |  |  |  |  |  |  |  |  |

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SOIL Sampling Point: SW15\_T301\_02

| Profile Descript                 |                  | ne depth nee | ded to docume | ent the indicator or co                     | nfirm the ab   |                   | ators)                   |                             |                                     |  |  |  |  |
|----------------------------------|------------------|--------------|---------------|---|--|-------------------|--------------------------|-----------------------------|-------------------------------------|--|--|--|--|
| Depth<br>(inches)                | Color (mois      |              | %             | Color (moist)                               | %  | Type <sup>1</sup> | Loc <sup>2</sup>         | Texture                     | Remarks                             |  |  |  |  |
| 0-3                              | Color (IIIois    | oL)          | 100           | Color (Illoist)                             |  | Туре              | LUC                      | Peat                        | Trainer.                            |  |  |  |  |
| 3-18                             |                  |              | 100           |   |  |                   |                          | Mucky Peat                  | with some mineral content           |  |  |  |  |
| - 3 10                           |                  |              |               |   | -  |                   |                          |                             | with some mineral content           |  |  |  |  |
|                                  |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
|                                  |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
|                                  |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
|                                  |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
|                                  |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
|                                  |                  |              |               |   | -  |                   |                          |                             |                                     |  |  |  |  |
| ¹Type: C=Co                      | ncentration. D=I | Depletion. F | RM=Reduced    | I Matrix <sup>2</sup> Location              | n: PL=Pore   | e Lining. RC      | =Root Cha                | nnel. M=Matrix              |                                     |  |  |  |  |
| Hydric Soil I                    | ndicators:       |              |               | Indicators for Pr                           | oblematio  | c Hydric So       | oils: <sup>3</sup>       |                             |                                     |  |  |  |  |
| ✓ Histosol o                     | r Histel (A1)    |              | [             | Alaska Color C                              | laska Color Change (TA4) <sup>4</sup> Alaska Gleyed Without Hue 5Y or Redder |                   |                          |                             |                                     |  |  |  |  |
|                                  | pedon (A2)       |              | [             | Alaska Alpine swales (TA5) Underlying Layer |  |                   |                          |                             |                                     |  |  |  |  |
| Hydrogen                         | Sulfide (A4)     |              | [             | Alaska Redox \                              | With 2.5Y H  | lue               | Other (Explain in Remark | ss)                         |                                     |  |  |  |  |
|                                  | k Surface (A12)  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
| Alaska Gle                       | eyed (A13)       |              |               | One indicator of<br>and an appropria        |  |                   |                          | nary indicator of wetland h | ydrology,                           |  |  |  |  |
| Alaska Re                        | dox (A14)        |              |               | ани ан арргорна                             | le iaiiuscap   | e position i      | nust be pre              | esent                       |                                     |  |  |  |  |
| Alaska Gle                       | eyed Pores (A15) | )            |               | 4 Give details of o                         | olor change  | e in Remark       | S                        |                             |                                     |  |  |  |  |
| Restrictive Lay                  | er (if present): |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
| Type: sea                        | sonal frost      |              |               |   |  |                   |                          | Hydric Soil Present         | ? Yes ● No O                        |  |  |  |  |
| Depth (incl                      | nes): 26         |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
|                                  |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
| HYDROLO                          | GY               |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
| Wetland Hyd                      | rology Indicat   | ors:         |               |   |  |                   |                          | Secondary Indi              | cators (two or more are required)   |  |  |  |  |
| Primary Indica                   | tors (any one is | sufficient)  |               |   |  |                   |                          | Water Stained Leaves (B9)   |                                     |  |  |  |  |
| ✓ Surface V                      | Vater (A1)       |              |               | ☐ Inundation V                              | isible on A  | erial Imagei      | ry (B7)                  | Drainage P                  | atterns (B10)                       |  |  |  |  |
| ✓ High Water Table (A2)          |                  |              |               | Sparsely Veg                                | etated Cor   | ncave Surfac      | ce (B8)                  | Oxidized R                  | hizospheres along Living Roots (C3) |  |  |  |  |
| Saturation (A3)                  |                  |              |               | Marl Deposit                                | s (B15)  |                   |                          |                             | f Reduced Iron (C4)                 |  |  |  |  |
| Water Marks (B1)                 |                  |              |               | Hydrogen Su                                 |  |                   |                          | Salt Depos                  |                                     |  |  |  |  |
| Sediment Deposits (B2)           |                  |              |               | Dry-Season \                                |  |                   |                          |                             | Stressed Plants (D1)                |  |  |  |  |
| ☐ Drift Dep                      |                  |              |               | U Other (Expla                              | in in Rema   | rks)              |                          |                             | ic Position (D2)                    |  |  |  |  |
|                                  | or Crust (B4)    |              |               |   |  |                   |                          |                             | uitard (D3)                         |  |  |  |  |
| ✓ Iron Depo                      | . ,              |              |               |   |  |                   |                          | _                           | raphic Relief (D4)                  |  |  |  |  |
|                                  | oil Cracks (B6)  |              |               |   |  |                   |                          | ✓ FAC-neutra                | I Test (D5)                         |  |  |  |  |
| Field Observa                    |                  | Yes •        | No O          | Danth (in the                               |  |                   |                          |                             |                                     |  |  |  |  |
| Surface Wate                     |                  |              |               | Depth (inche                                | es): 3   |                   |                          |                             |                                     |  |  |  |  |
| Water Table F                    | Present?         | Yes          | No $\bigcirc$ | Depth (inche                                | es): 0   |                   | Wetla                    | nd Hydrology Presen         | t? Yes • No 🔾                       |  |  |  |  |
| Saturation Pro<br>(includes capi |                  | Yes          | No O          | Depth (inche                                | es): 0   |                   |                          |                             |                                     |  |  |  |  |
| Describe Recor                   | ded Data (strea  | m gauge, n   | nonitor well, | aerial photos, pre                          | vious inspe  | ection) if ava    | ilable:                  |                             |                                     |  |  |  |  |
| Damadic                          |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
| Remarks:                         |                  | Challan      |               |   | C -: L-  |                   |                          |                             |                                     |  |  |  |  |
| B5 - Iron floc a                 | na biogenic sne  | en. Snallow  | surrace wat   | er over majority o                          | r site.  |                   |                          |                             |                                     |  |  |  |  |
|                                  |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
|                                  |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |
|                                  |                  |              |               |   |  |                   |                          |                             |                                     |  |  |  |  |

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