## WETLAND DETERMINATION DATA FORM - Alaska Region

| rojeci         | /Site: Susitna-Watana Hydroelectric Project  | E  | Borough/City:                | Matanusk          | a-Susitna Borough Sampling Date: 30-Aug-15   |  |  |
|----------------|--|--|------------------------------|-------------------|--|--|--|
| Applica        | nt/Owner: Alaska Energy Authority  |  |                              |                   | Sampling Point: SW15_T342_09   |  |  |
| nvesti         | gator(s): AFW  |  | Landform (hil                | lside, terrac     | e, hummocks etc.): Hillside  |  |  |
| ocal r         | elief (concave, convex, none): hummocky  |  | Slope: 3.5                   | % / 2.0           | ° Elevation:   |  |  |
| uhred          | ion : Interior Alaska Mountains  | Lat.:                                    | · · —                        |                   | Long.: Datum: WGS84  |  |  |
| _              | p Unit Name:   | Lut                                      |                              |                   | NWI classification: PSS1E  |  |  |
|                | · -  | 4: <b></b>                               | -0 Voo                       | ● No ○            | <del></del>  |  |  |
| Are V<br>Are V | natic/hydrologic conditions on the site typical for this egetation , Soil , or Hydrology egetation , Soil , or Hydrology | significantl<br>naturally p<br>owing sar | ly disturbed?<br>roblematic? | Are "N<br>(If nee | (If no, explain in Remarks.)  Iormal Circumstances" present? Yes No No deded, explain any answers in Remarks.)  Iormal Circumstances" present? Yes No No control of the con |  |  |
|                | Hydrophytic Vegetation Present? Yes  No  | )  |                              | 41 0              | uslant Assa  |  |  |
|                | Hydric Soil Present? Yes ● No  | $\supset$                                |                              |                   | npled Area<br>Votland? Yes  No   |  |  |
|                | Wetland Hydrology Present? Yes   No  | $\supset$                                | W                            | ithin a W         | retland? res en No   |  |  |
| Rema           | ırks:  |  |                              |                   |  |  |  |
| EGE            | TATION -Use scientific names of plants. I  | Absolute                                 | Dominant                     | plot.             | Dominance Test worksheet:  |  |  |
|                | e Stratum  | % Cover                                  | Species?                     | Status            | Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)   |  |  |
| 1.             |  |  |                              |                   | Total Number of Dominant   |  |  |
| 2.             |  |  |                              |                   | Species Across All Strata: 3 (B)   |  |  |
| 3.             |  | - —                                      |                              |                   | Percent of dominant Species  |  |  |
| 4.             |  |  |                              |                   | That Are OBL, FACW, or FAC: 100.0% (A/B)   |  |  |
| 5.             | T-t-1C   |  |                              |                   | Prevalence Index worksheet:  |  |  |
| _              | Total Cove   |  | -                            |                   | Total % Cover of: Multiply by:   |  |  |
| Sap            | ling/Shrub Stratum 50% of Total Cover:   | 0 20%                                    | 6 of Total Cover             | :0                | OBL Species <u>50</u> x 1 = <u>50</u>  |  |  |
| 1.             | Salix pseudomonticola  | 45                                       | <b>✓</b>                     | FAC               | FACW Species 20 x 2 = 40   |  |  |
| 2.             | Salix pulchra  |  | <b>✓</b>                     | FACW              | FAC Species 90 x 3 = 270   |  |  |
| 3.             | Vaccinium uliginosum   | 15                                       |                              | FAC               | FACU Species 1 x 4 = 4   |  |  |
| 4.             | Salix reticulata   |  |                              | FAC               | UPL Species0 x 5 =0  |  |  |
| 5.             | Dasiphora fruticosa  |  |                              | FAC               | Column Totals: <u>161</u> (A) <u>364</u> (B)   |  |  |
| 6.             | Betula glandulosa  |  |                              | FACIL             | Prevalence Index = B/A =   |  |  |
| 7.             | Picea glauca   |  |                              | FACU              |  |  |  |
| 8.             |  | $- \frac{0}{0}$                          |                              |                   | Hydrophytic Vegetation Indicators:  ✓ Dominance Test is > 50%  |  |  |
|                |  |  |                              |                   | ✓ Prevalence Index is ≤3.0   |  |  |
|                | Total Cove b Stratum 50% of Total Cover:   | er: 101                                  |                              | r: 20.2           | Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)  |  |  |
|                | Carex aquatilis  | 45                                       | <b>✓</b>                     | OBL               | Problematic Hydrophytic Vegetation (Explain)   |  |  |
|                | Equisetum arvense  |  |                              | FAC               | <sup>1</sup> Indicators of hydric soil and wetland hydrology must  |  |  |
|                | Comarum palustre   |  |                              | OBL               | be present, unless disturbed or problematic.   |  |  |
|                |  |  |                              |                   | District (and its on longth as width)  |  |  |
|                |  |  |                              |                   | Plot size (radius, or length x width) 10m  |  |  |
|                |  | _  |                              |                   | % Cover of Wetland Bryophytes (Where applicable)   |  |  |
| 7.             |  | 0  |                              |                   | % Bare Ground35  |  |  |
| 8.             |  | 0  |                              |                   | Total Cover of Bryophytes  |  |  |
| 9.             |  |  |                              |                   |  |  |  |
| 10.            |  | 0_                                       |                              |                   | Hydrophytic  |  |  |
|                | Total Cove   |  | 6 of Total Cover             |                   | Vegetation Present? Yes  No  |  |  |
|                |  | 200                                      | / (T . LC                    | : 12              | Procent Yes Y NO /   |  |  |

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW15\_T342\_09

|   | · · · · · · · · · · · · · · · · · · ·  |                               |                           |  |   |                    |                   |   |  |
|---|--|-------------------------------|---------------------------|--|---|--------------------|-------------------|---|--|
| Profile Descript  |  | the depth ne<br><b>Matrix</b> | eeded to docur            | nent the indicator or co   | onfirm the absen  |                    | s)                |   |  |
| Depth<br>(inches)   |  |                               |                           |  |   |                    | . 2               | Texture   | Domayka  |
|   | Color (mo  | oist)                         | <u>%</u>                  | Color (moist)  | <u>%</u>  | Type <sup>1</sup>  | Loc_ <sup>2</sup> |   | Remarks  |
| 0-4   |  |                               | 100                       |  |   |                    |                   | Mucky Peat  |  |
| 4-10  |  |                               |                           |  |   |                    |                   | Muck  |  |
| 10-20   | 10YR   | 2/2                           | 100                       |  |   |                    |                   | Silt Loam   | with org and sandy inclusions. cryoturbated  |
|   |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
| -   |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
| ¹Type: C=Co   | ncentration. D   | =Depletion                    | . RM=Reduc                | ed Matrix <sup>2</sup> Location  | n: PL=Pore L  | ining. RC=Ro       | oot Char          | nnel. M=Matrix  |  |
| Hydric Soil I   | Indicators   |                               |                           | Indicators for Pr  | rohlematic H  | Ivdric Soils       | 3                 |   |  |
|   |  |                               |                           | Alaska Color Cl  | 4   | yuric sons.        | ·                 | Alaska Clayed Without H   | io EV or Doddor  |
|   | r Histel (A1)  |                               |                           | Alaska Alpine s  |   |                    | Ш                 | Alaska Gleyed Without Hu<br>Underlying Layer  | de 51 or Redder  |
|   | pedon (A2)   |                               |                           | Alaska Redox V   | , ,   | 2                  |                   | Other (Explain in Remark  | s)   |
| _ ′ ′   | Sulfide (A4)   |                               |                           | Alaska Redux V   | With 2.51 Flue  | E                  |                   | Curer (Explain in Remark  | 2,   |
|   | k Surface (A12   | )                             |                           | <sup>3</sup> One indicator of  | hydrophytic   | vegetation, o      | ne prim           | nary indicator of wetland h   | ydrology,  |
|   | eyed (A13)   |                               |                           | and an appropriat  |   |                    |                   |   | , 3,,  |
|   | dox (A14)  | <b>-</b> \                    |                           | 4 Give details of co   | olor change i   | n Remarks          |                   |   |  |
| ∟ Alaska Gle  | eyed Pores (A1   | 5)                            |                           |  |   |                    |                   |   |  |
| Restrictive Lay   | er (if present):   |                               |                           |  |   |                    |                   |   |  |
| Type:   |  |                               |                           |  |   |                    |                   | Hydric Soil Present?  | ? Yes 💿 No 🔾   |
| Depth (inc  | hes):  |                               |                           |  |   |                    |                   |   |  |
| Remarks:  |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
|   |  |                               |                           |  |   |                    |                   |   |  |
| HYDROLO   |  |                               |                           |  |   |                    |                   |   |  |
| Wetland Hyd   | lrology Indica   |                               |                           |  |   |                    |                   |   | cators (two or more are required)  |
| Wetland Hyd   | Irology Indica<br>ators (any one   |                               | t)                        |  |   |                    |                   | Water Stair   | ned Leaves (B9)  |
| Primary Indicated Surface V   | Irology Indica<br>ators (any one<br>Water (A1)   |                               | t)                        | ☐ Inundation V   | /isible on Aeri   | ial Imagery (E     | B7)               | Water Stair  Drainage P   | ned Leaves (B9)<br>atterns (B10)   |
| Wetland Hyd  Primary Indica  ✓ Surface V  High Wat  | Irology Indica<br>ators (any one<br>Water (A1)<br>er Table (A2)  |                               | t)                        | Sparsely Veg   | jetated Conca   |                    | -                 | Water Stair Drainage P Oxidized RI  | ned Leaves (B9)<br>atterns (B10)<br>nizospheres along Living Roots (C3)  |
| Wetland Hyd Primary Indica Surface V High Wat Saturatio   | trology Indicators (any one<br>Water (A1)<br>ter Table (A2)<br>n (A3)  |                               | t)                        | Sparsely Veg Marl Deposits   | getated Conca<br>s (B15)  | ave Surface (E     | -                 | Water Stair Drainage P Oxidized RI Presence o   | ned Leaves (B9)<br>atterns (B10)<br>nizospheres along Living Roots (C3)<br>f Reduced Iron (C4)   |
| Wetland Hyd Primary Indica ✓ Surface V ✓ High Wat ✓ Saturatio  Water Ma   | Irology Indica<br>ators (any one<br>Water (A1)<br>ter Table (A2)<br>n (A3)<br>arks (B1)  |                               | t)                        | Sparsely Veg   | getated Conca<br>s (B15)  | ave Surface (E     | -                 | Water Stair Drainage P Oxidized RI Presence o Salt Deposi   | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5)   |
| Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment   | Irology Indica<br>ators (any one<br>Water (A1)<br>ter Table (A2)<br>n (A3)<br>arks (B1)<br>t Deposits (B2)   |                               | (t)                       | Sparsely Veg Marl Deposite Hydrogen Su   | getated Conca<br>s (B15)  | ave Surface (E     | -                 | Water Stair Drainage P Oxidized RI Presence o Salt Deposi   | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1)  |
| Primary Indica  ✓ Surface V  ✓ High Wat  ✓ Saturatio  Water Ma  Sediment  Drift Dep   | Irology Indica<br>ators (any one<br>Water (A1)<br>ter Table (A2)<br>n (A3)<br>arks (B1)<br>t Deposits (B2)<br>osits (B3)   |                               | :)                        | Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season \                              | getated Conca<br>s (B15)<br>ulfide Odor (C  | ave Surface (E     | -                 | Water Stain Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi                                  | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2)  |
| Wetland Hyd  Primary Indica  ✓ Surface V  ✓ High Wat  ✓ Saturatio  ─ Water Ma  ─ Sediment  ─ Drift Dep  ─ Algal Mat   | Irology Indica<br>ators (any one<br>Water (A1)<br>ter Table (A2)<br>in (A3)<br>arks (B1)<br>t Deposits (B2)<br>osits (B3)<br>or Crust (B4)   |                               | :)                        | Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season \                              | getated Conca<br>s (B15)<br>ulfide Odor (C<br>Water Table (   | ave Surface (E     | -                 | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq                       | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3)                                |
| Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depu   | Irology Indica<br>ators (any one<br>Water (A1)<br>ter Table (A2)<br>in (A3)<br>arks (B1)<br>t Deposits (B2)<br>osits (B3)<br>or Crust (B4)<br>osits (B5)   | is sufficient                 | t)                        | Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season \                              | getated Conca<br>s (B15)<br>ulfide Odor (C<br>Water Table (   | ave Surface (E     | -                 | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog            | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)             |
| Wetland Hyd Primary Indica ✓ Surface V ✓ High Wat ✓ Saturatio ─ Water Ma ─ Sediment ─ Drift Dep ─ Algal Mat ─ Iron Depu ─ Surface S   | Irology Indica<br>ators (any one<br>Water (A1)<br>ter Table (A2)<br>n (A3)<br>arks (B1)<br>t Deposits (B2)<br>osits (B3)<br>t or Crust (B4)<br>osits (B5)<br>Soil Cracks (B6)  | is sufficient                 | t)                        | Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season \                              | getated Conca<br>s (B15)<br>ulfide Odor (C<br>Water Table (   | ave Surface (E     | -                 | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq                       | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)             |
| Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Surface S Field Observ.   | Irology Indica<br>ators (any one<br>Water (A1)<br>cer Table (A2)<br>n (A3)<br>arks (B1)<br>t Deposits (B2)<br>osits (B3)<br>c or Crust (B4)<br>osits (B5)<br>Soil Cracks (B6)  | is sufficient                 |                           | Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season \ Other (Expla                 | getated Conca<br>is (B15)<br>ulfide Odor (C<br>Water Table (<br>in in Remarks                               | ave Surface (E     | -                 | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog            | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)             |
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| Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Surface S Field Observ.   | Irology Indicators (any one Water (A1) ter Table (A2) in (A3) arks (B1) it Deposits (B2) osits (B3) it or Crust (B4) osits (B5) Soil Cracks (B6) ations:   | yes •                         |                           | Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season \ Other (Expla                 | getated Conca<br>s (B15)<br>ulfide Odor (C<br>Water Table (<br>in in Remarks                                | E1)<br>(C2)<br>(S) | B8)               | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog            | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5) |
| Wetland Hyd Primary Indica ✓ Surface V ✓ High Wat ✓ Saturatio ─ Water Ma ─ Sediment ─ Drift Dep ─ Algal Mat ─ Iron Depo ─ Surface S Field Observa   | Irology Indicators (any one Water (A1) the Table (A2) in (A3) the Deposits (B2) is osits (B3) if or Crust (B4) is osits (B5) is oil Cracks (B6) in Cracks (B | Yes • Yes •                   | ) No ()<br>) No ()        | Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season N Other (Expla)  Depth (inche) | getated Conca<br>s (B15)<br>ulfide Odor (C<br>Water Table (<br>in in Remarks<br>es): 10                     | E1)<br>(C2)<br>(S) | B8)               | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5) |
| Wetland Hyd Primary Indica ✓ Surface V ✓ High Wat ✓ Saturatio   Water Ma  Sediment  Drift Dep  Algal Mat  Iron Depu  Surface S Field Observ. Surface Water Table I  | Irology Indicators (any one Water (A1) ter Table (A2) in (A3) ter Deposits (B2) is osits (B3) it or Crust (B4) is osits (B5) is oil Cracks (B6) ations:  er Present?  Present?   | Yes • Yes •                   | ) No O                    | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season V Other (Expla                  | getated Conca<br>s (B15)<br>ulfide Odor (C<br>Water Table (<br>in in Remarks<br>es): 10                     | E1)<br>(C2)<br>(S) | B8)               | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5) |
| Wetland Hyd Primary Indica ✓ Surface V ✓ High Wat ✓ Saturatio      Water Ma     Sediment     Drift Dep     Algal Mat     Iron Depo     Surface S Field Observe Surface Water Water Table I Saturation Pre (includes cap | Irology Indica<br>ators (any one<br>Water (A1)<br>ter Table (A2)<br>n (A3)<br>arks (B1)<br>t Deposits (B2)<br>osits (B3)<br>t or Crust (B4)<br>osits (B5)<br>soil Cracks (B6)<br>ations:<br>er Present?<br>Present?<br>illary fringe)  | Yes • Yes •                   | ) No () No () No () No () | Sparsely Veg Marl Deposit: Hydrogen Su Dry-Season N Other (Expla)  Depth (inche) | getated Conca<br>s (B15)<br>ulfide Odor (C<br>Water Table (<br>in in Remarks<br>es): 10<br>es): 6<br>es): 3 | eve Surface (E     | Wetlan            | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5) |
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| Wetland Hyd Primary Indica ✓ Surface V ✓ High Wat ✓ Saturatio      Water Ma     Sediment     Drift Dep     Algal Mat     Iron Depo     Surface S Field Observe Surface Water Water Table I Saturation Pre (includes cap | Irology Indica<br>ators (any one<br>Water (A1)<br>ter Table (A2)<br>n (A3)<br>arks (B1)<br>t Deposits (B2)<br>osits (B3)<br>t or Crust (B4)<br>osits (B5)<br>soil Cracks (B6)<br>ations:<br>er Present?<br>Present?<br>illary fringe)  | Yes • Yes •                   | ) No () No () No () No () | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season V Other (Expla                  | getated Conca<br>s (B15)<br>ulfide Odor (C<br>Water Table (<br>in in Remarks<br>es): 10<br>es): 6<br>es): 3 | eve Surface (E     | Wetlan            | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5) |
| Wetland Hyd Primary Indica Surface V High Wat Saturatio Water Ma Sediment Drift Dep Algal Mat Iron Depo Surface S Field Observ. Surface Water Table I Saturation Pro (includes cap Describe Recon                       | Irology Indicators (any one Nater (A1) Irer Table (A2) In (A3) Irer Table (B1) It Deposits (B2) It Deposits (B3) It Or Crust (B4) It Osits (B5) It Or Crust (B4) It Osits (B5) It Or Crust (B6) I | Yes • Yes •                   | ) No () No () No () No () | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season V Other (Expla                  | getated Conca<br>s (B15)<br>ulfide Odor (C<br>Water Table (<br>in in Remarks<br>es): 10<br>es): 6<br>es): 3 | eve Surface (E     | Wetlan            | Water Stair Drainage P Oxidized RI Presence o Salt Deposi Stunted or Geomorphi Shallow Aq Microtopog FAC-neutra | ned Leaves (B9) atterns (B10) nizospheres along Living Roots (C3) f Reduced Iron (C4) its (C5) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) I Test (D5) |
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