WETLAND DETERMINATION DATA FORM - Alaska Region

| | Project/Site: Susitna-Watana Hydroelectric Project | Borough/City: Matanus | ka-Susitna Borough Sampling Date: 23-Aug-15 |
|---|---|---|---|
| Investigator(s): SLI_ATH Landform (hildske, terrace, hummacks etc.): Dranage Local relief (concave, convex, none): Stope: 0.0 % / 0.0 % Lievator: Datum: VYG84 Storepoint: Interior Alaska Mountains Lat: Long: Datum: VYG84 Vectation [| Applicant/Owner: Alaska Energy Authority | | Sampling Point: SW15_T311_06 |
| Stope: O.0. %/ O.0. % O.0. % Elevation: Subregion: Interior Alaska Mountains Lat: Long: Datum: Wit classification: PEMTE Subregion: Interior Alaska Mountains Lat: Long: Datum: Wit classification: PEMTE Yee (septiation | | Landform (hillside, terra | ce, hummocks etc.): Drainage |
| Sol Map Unit Name: NWI classification: PEMTE Ve classification: or thydrology isginificating disturbed? Are Normal Circumstance* present? Yes No Are Vegetation Soll 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 I No Wetland Hydrology Present? Yes I No Wetland-pond complex in large drainage. Floating mat with few plomar snags. ZEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum No Complex in the plot. 3. 0 3. 0 3. 0 3. 0 3. 0 3. 0 4. 0 5. 0 6. 0 7 0 7 0 8. 0 9. 0 1. 0 2. 0 3. 0 1. 0 2. 0 3. 0< | Local relief (concave, convex, none): | | 0 ° Elevation: |
| Sol Map Unit Name: NWI classification: PEMTE Ve classification: or thydrology isginificating disturbed? Are Normal Circumstance* present? Yes No Are Vegetation Soll 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 I No Wetland Hydrology Present? Yes I No Wetland-pond complex in large drainage. Floating mat with few plomar snags. ZEGETATION - Use scientific names of plants. List all species in the plot. Tree Stratum No Complex in the plot. 3. 0 3. 0 3. 0 3. 0 3. 0 3. 0 4. 0 5. 0 6. 0 7 0 7 0 8. 0 9. 0 1. 0 2. 0 3. 0 1. 0 2. 0 3. 0< | Subregion : Interior Alaska Mountains | | Long.: Datum: WGS84 |
| ve climatichydrologie conditions on the site typical for this time of year? Yes ● No (ff no. explain in Remarks.) Are Vegetation [], Soil [], or Hydrology [] naturally problematic? Are "Normal Circumstance" present? Yes ● No (ff no. eddd. explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes ● No (ff no. eddd. explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes ● No (ff no. eddd. explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area within a Wotland? Yes ● No (ff no. eddd. explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area within a Wotland? Yes ● No (ff no. eddd. explain any answers in Remarks.) Remarks: Wetland-point complex in large drainage. Floating mat with few picmar snags. Intervent of Commant Species Transects. Transects: Mydrology Present Transects. Prevalence Index worksheet: Number of Commant Species Transects. 1. 0 0 0 0 Prevalence Index worksheet: Number of Commant Species Transects. No. (f no. edd. and for the Species Transects and species Tratal Species 1. | | | |
| Are Vegetation . Soll . or Hydrology eignificantly disturbed? Are "Normal Circumstances" present? Yes (*) No (*) Are Vegetation . Soll . or Hydrology naturally problematic? (ff needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrolytic Vegetation Present? Yes (*) No (*) Hydrolytic Vegetation Present? Yes (*) No (*) Is the Sampled Area within a Wetland? Yes (*) No (*) Remarks: Wetland-poind complex in large drainage. Floating mat with few plomar snags. Is the Sampled Area within a Wetland? Yes (*) No (*) Remarks: Wetland-poind complex in large drainage. Floating mat with few plomar snags. Nomber of Dominant Species Nomber of Dominant Species 1 0 0 0 0 Prevented commant Species 2 0 0 0 Prevented commant Species 100,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0 | | | |
| Hydrophytic Vegetation Present? Yes ● No ○ Is the Sampled Area within a Wetland? Yes ● No ○ Remarks: Wetland-point complex in large drainage. Floating mat with few picmars snags. within a Wetland? Yes ● No ○ // EGETATION - Use scientific names of plants. List all species in the plot. // Ominance Test worksheet: // Ominance Test worksheet: 1. 0 0 // Ominance Test worksheet: 1. 0 // Ominance Test worksheet: // Ominance Test wor | Are Vegetation , Soil , or Hydrology significant Are Vegetation , Soil , or Hydrology naturally | ntly disturbed? Are "I problematic? (If ne | Normal Circumstances" present? Yes $ullet$ No $igodot$ eded, explain any answers in Remarks.) |
| Hydric Soli Present? Yes () Is the Sampled Area within a Wetland? Yes () No Remarks: Wetland-hydrology Present? Yes () No within a Wetland? Yes () No Remarks: Wetland-hydrology Present? Yes () No () () () () Remarks: Wetland-pond complex in large drainage. Floating mat with few picmar snags. I () | | | |
| ZEGETATION - Use scientific names of plants. List all species in the plot. Dominance Test worksheet: Number of Dominant Species Total Cover: 0 < | Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ | within a V | \cdot |
| Tree Stratum Absolute % Cover Dominant Species Indicator Status 1. 0 0 1 Cover 2 (A) 3. 0 0 0 1 Total Cover: 0 1 3. 0 0 0 1 Percent of dominant Species Across All Stratu: 2 (B) 5. 0 0 0 1 Total Cover: 0 1 Total & Cover: 0 1 Dominant & Total & Cover: 0 1 Dominant & Total | | | |
| Absolute Dominant Indicator 1. 0 0 1. 2. 0 0 1. 3. 0 0 1. 4. 0 0 1. 5. 0 0 1. 5. 0 0 1. 6. 0 0 1. 7. 0 0 1. 2. 0 0 1. 2. 0 0 1. 3. 0 0 1. 2. 0 0 1. 2. 0 0 1. 3. 0 0 1. 4. 0 0 1. 5. 0 0 1. 6. 0 0 1. 7. 0 0 1. 8. 0 0 1. 9. 0 0 1. 1. Eriophorum scheuchzeri 0. 2.0% of Total Cover: 0. | VEGETATION - Use scientific names of plants. List all s | pecies in the plot. | |
| 1. 0 0 0 1 2. 0 0 0 0 0 3. 0 0 0 0 0 0 4. 0 0 0 0 0 0 0 5. 0 0 0 0 0 0 0 0 5. 0 | | | Number of Dominant Species |
| 2. 0 | | | |
| 3. 0 | 2. 0 | | |
| 4. 0 | 3 | | |
| 5. 0 0 0 Sapling/Shrub Stratum 50% of Total Cover: 0 0 0 1. 0 0 FACW Species 3.1, 1 = 3.5, 1 X 1 = 3.5, 1 2. 0 0 FACW Species 0, X 2 = 0 3. 0 0 FACW Species 0, X 2 = 0 4. 0 0 FACU Species 0, X 4 = 0 5. 0 0 Herb Stratum 0 0 UPL Species 0, X 5 = 0 7. 0 0 0 Hydrophytic Vegetation Indicators: 0 0 Hydrophytic Vegetation Indicators: 9. 0 0 0 0 Hydrophytic Vegetation Indicators: 0 Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 1 1. Eriophorum scheuchzeri 15 0 0 1 1 1 1 1 2. Carex aquatilis 15 0 0 1 1 1 1 1 1 1 1 1 < | 4 | | |
| Total Cover: | | | Prevalence Index worksheet: |
| 1. 0 - FAC Works of Solution (Section (Sectin (Sectin (Section (Sectin (Section (Sectin (Section (| Total Cover:0 | _ | |
| 1. | Sapling/Shrub Stratum 50% of Total Cover: 0 20 | 0% of Total Cover:0 | OBL Species x 1 =35.1 |
| 2. 0 □ FAC Species 0 x 3 = 0 3. 0 □ | 0 | | FACW Species 0 x 2 = 0 |
| 3. 0 | | | FAC Species $0 \times 3 = 0$ |
| 4. 0 | | | FACU Species 0 x 4 = 0 |
| 5. 0 | 1 | | UPL Species 0 x 5 = 0 |
| 7. | 5 0 | | Column Totals: <u>35.1</u> (A) <u>35.1</u> (B) |
| 8. 0 0 Hydrophytic Vegetation Indicators: 9. 0 0 ✓ 10. 0 ✓ Dominance Test is > 50% 10. 0 ✓ Prevalence Index is ≤ 3.0 Herb Stratum 50% of Total Cover: 0 ✓ 1. Eriophorum scheuchzeri 15 ✓ OBL 2. Carex aquatilis 15 ✓ OBL 3. Equisetum fluviatile 5 OBL Problematic Hydrophytic Vegetation (Explain) 4. Comarum palustre 0.1 OBL Plot size (radius, or length x width) 5m 5. 0 Ø Withere applicable) % 7. 0 % Bare Ground 0 9. 0 Ø Yegetation Yegetation | | - 🛛 —— | Prevalence Index = B/A = |
| 9. 0 0 ✓ Dominance Test is > 50% 10. 0 0 ✓ Prevalence Index is ≤ 3.0 Herb Stratum 50% of Total Cover: 0 0 ✓ 1. Eriophorum scheuchzeri 15 ✓ OBL Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) 2. Carex aquatilis 15 ✓ OBL Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4. Comarum palustre 0.1 OBL Plot size (radius, or length x width) 5m 5. 0 0 ✓ % Cover of Wetland Bryophytes (Where applicable) 7. 0 ✓ 0 ✓ % Bare Ground 0 9. 0 ✓ 0 ✓ Yetree of Bryophytes 99 10. Total Cover: 35.1 ✓ Hydrophytic Yegetation | | | Hydrophytic Vegetation Indicators: |
| 10. | | | |
| Total Cover: 0 Herb Stratum 50% of Total Cover: 0 20% of Total Cover: 0 1. Eriophorum scheuchzeri 15 Ø OBL Problematic Hydrophytic Vegetation (Explain) 2. Carex aquatilis 15 Ø OBL Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 4. Comarum palustre 0.1 OBL Plot size (radius, or length x width) 5m 5. 0 0 0 0 Where applicable) % Bare Ground 0 7. 0 0 0 0 Hydrophytic 9g 9g 9. 0 0 0 0 Hydrophytic Yegetation Yegetation | | | ✓ Prevalence Index is ≤3.0 |
| 2. Carex aquatilis 15 Image: Comparison of the second comparison of th | Total Cover: | 0% of Total Cover: 0 | Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) |
| 2. Carex aquatilis 15 Image: OBL 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 3. Equisetum fluviatile 5 OBL OBL Plot size (radius, or length x width) 5m 4. Comarum palustre 0.1 OBL Plot size (radius, or length x width) 5m 5. 0 0 Mode: Cover of Wetland Bryophytes Mode: Cover of Wetland Bryophytes 6. 0 0 Mode: Cover of Bryophytes Mode: Cover of Bryophytes 7. 0 0 Mode: Cover of Bryophytes Mode: Cover of Bryophytes 9. 0 0 Mode: Cover of Bryophytes Mode: Cover of Bryophytes 10. 0 10. 10. 10. 10. 10. | 1. Eriophorum scheuchzeri 15 | ✓ OBL | Problematic Hydrophytic Vegetation (Explain) |
| 3. Equisetum fluviatile 5 OBL be present, unless disturbed or problematic. 4. Comarum palustre 0.1 OBL Plot size (radius, or length x width) 5m 5. 0 0 0 0 % Cover of Wetland Bryophytes 0 6. 0 0 0 % Bare Ground 0 0 7. 0 0 7 7 7 7 7 7 99 9. 0 0 0 10 | | ✓ OBL | ¹ Indicators of hydric soil and wetland hydrology must |
| 5. 0 0 5m 6. 0 0 6m 6m 7. 0 0 6m 6m 8. 0 0 6m 6m 9. 0 0 7m 7m 10. 0 0 7m 7m 10. 0 7m 7m 7m 10. 0 7m 7m 7m 10. 0 1mm 1mm 1mm 1mm 10. 1mm 1mm 1mm 1mm 1mm 10. 1mm 1mm 1mm 1mm 1mm 1mm 10. 1mm 1mm 1mm 1mm 1mm 1mm 1mm 10. 1mm 1mm 1mm 1mm 1mm 1mm 1mm 1mm 1mm 10. 1mm | - Equipative fluxiatile | OBL | |
| 5. 0 | | OBL | Plot size (radius or length y width) |
| 6. 0 | 50 | | |
| 7. | | | |
| 9. 0 Hydrophytic 10. 0 Hydrophytic Total Cover: 35.1 Vegetation | 70 | | % Bare Ground |
| 10. 0 Image: Constraint of the second secon | 80 | _ Ц | |
| Total Cover: <u>35.1</u> Vegetation | 9 0 | | |
| | 10. | | |
| | | | Vegetation Present? Yes • No · |

Remarks: Bryophytes= Sphagnum (squorrosum?)

SOIL

| (inches) Color (moi | st) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
|---|---------------------------------|---------------|---|---|-------------------|----------------------------|--|---|
| 0-12 | | | | | | | Peat | |
| 12-18 | | | | | | | Mucky Peat | With pieces of old shrubs |
| | | | | | | | - | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Type: C=Concentration. D= | Depletion. R | M=Reduce | ed Matrix ² Location | : PL=Pore | Lining. RC | =Root Cha | annel. M=Matrix | - |
| ydric Soil Indicators: | | | Indicators for Pro | oblematic | Hydric So | oils: ³ | | |
| Histosol or Histel (A1) | | | Alaska Color Ch | | - | | Alaska Gleyed Without I | lue 5Y or Redder |
| Histic Epipedon (A2) | | | Alaska Alpine sv | vales (TA5 | i) | _ | Underlying Layer | |
| Hydrogen Sulfide (A4) | | | Alaska Redox W | /ith 2.5Y H | lue | | Other (Explain in Rema | rks) |
| Thick Dark Surface (A12) | | | ³ One indicator of | bydronbyt | ic vegetatio | n one nrir | mary indicator of wetland | hudrology |
| Alaska Gleyed (A13) | | | and an appropriate | a landscap | e position r | n, one prin nust be pre | esent | πγαΓοιομγ, |
| Alaska Redox (A14) | | | | | | | | |
| Alaska Gleyed Pores (A15 |) | | ⁴ Give details of co | lor change | IN Remark | S | | |
| strictive Layer (if present): | _ | _ | | _ | _ | | | |
| | | | | | | | | ~ ~ ~ |
| Туре: | | | | | | | Hydric Soil Presen | t? Yes 🖲 No 🔿 |
| Type: Depth (inches): emarks: | | | | | | | Hydric Soil Presen | t? Yes 🖲 No 🖯 |
| Depth (inches): | | | | | | | Hydric Soil Presen | t? Yes • No O |
| Depth (inches): emarks: YDROLOGY | | | | | | | | t? Yes • No · |
| Pepth (inches): emarks: YDROLOGY /etland Hydrology Indicat | | | | | | | Secondary Inc | |
| Depth (inches): emarks: YDROLOGY /etland Hydrology Indicat | | | Inundation Vi | | | | | licators (two or more are required) |
| YDROLOGY Yetland Hydrology Indicat rimary Indicators (any one is Surface Water (A1) Yetlah Water Table (A2) | | | Inundation Vis Sparsely Vege | | - | | Secondary Inc | licators (two or more are required) ained Leaves (B9) Patterns (B10) |
| Depth (inches): emarks: YDROLOGY Yetland Hydrology Indicat rimary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3) | | | | etated Con | - | | Secondary Inc Water Sta Drainage Oxidized Presence | licators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) |
| Pepth (inches): emarks: YDROLOGY Yetland Hydrology Indicat rimary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3) | | | Sparsely Vege | etated Con (B15) | cave Surfac | | Secondary Inc Water Sta Drainage | licators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) |
| Depth (inches): emarks: YDROLOGY /etland Hydrology Indicate trimary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) | | | Sparsely Vege | etated Con (B15) fide Odor (| cave Surfac | | Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo | licators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) soits (C5) or Stressed Plants (D1) |
| Depth (inches): emarks: YDROLOGY Yetland Hydrology Indicat rimary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) | | | Sparsely Vege | etated Con (B15) fide Odor (Vater Table | (C1) e (C2) | | Secondary Inc Water Sta Drainage Oxidized Presence Salt Depc Stunted c V Geomorp | licators (two or more are required) ined Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) wits (C5) or Stressed Plants (D1) hic Position (D2) |
| Depth (inches): Pemarks: PyDROLOGY Petland Hydrology Indicat rimary Indicators (any one is Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) | | | Sparsely Vege Marl Deposits Hydrogen Sult Dry-Season W | etated Con (B15) fide Odor (Vater Table | (C1) e (C2) | | Secondary Inc Water Sta Drainage Oxidized Presence Salt Depc Stunted c V Geomorp | licators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C: of Reduced Iron (C4) sits (C5) or Stressed Plants (D1) |
| Depth (inches): emarks: YDROLOGY Yetland Hydrology Indicat trimary Indicators (any one is Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) | | | Sparsely Vege Marl Deposits Hydrogen Sult Dry-Season W | etated Con (B15) fide Odor (Vater Table | (C1) e (C2) | | Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted o Geomorp Shallow A Microtopo | licators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) sists (C5) or Stressed Plants (D1) hic Position (D2) squitard (D3) ographic Relief (D4) |
| Depth (inches): emarks: YDROLOGY Yetland Hydrology Indicat trimary Indicators (any one is Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) | | | Sparsely Vege Marl Deposits Hydrogen Sult Dry-Season W | etated Con (B15) fide Odor (Vater Table | (C1) e (C2) | | Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted of Geomorp Shallow A | licators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C: of Reduced Iron (C4) osits (C5) or Stressed Plants (D1) hic Position (D2) squitard (D3) ographic Relief (D4) |
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| Depth (inches): emarks: YDROLOGY Yetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Field Observations: Surface Water Present? Water Table Present? | s sufficient) Yes ○ Yes ● | No \bigcirc | Sparsely Vege Marl Deposits Hydrogen Suli Dry-Season W Other (Explain | etated Con (B15) fide Odor (Vater Table n in Remar | (C1) e (C2) | ce (B8) | Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted o Geomorp Shallow A Microtopo | licators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C3 of Reduced Iron (C4) asits (C5) or Stressed Plants (D1) hic Position (D2) aquitard (D3) agraphic Relief (D4) ral Test (D5) |
| Depth (inches): emarks: YDROLOGY Yetland Hydrology Indicat Primary Indicators (any one is Surface Water (A1) ✓ High Water Table (A2) ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) ield Observations: Surface Water Present? | s sufficient) Yes 〇 | No \bigcirc | Sparsely Vege Marl Deposits Hydrogen Suli Dry-Season W Other (Explain | etated Con (B15) fide Odor (Vater Table n in Remar 5): 5): 0 | (C1) e (C2) | ce (B8) | Secondary Inc Water Sta Drainage Oxidized Presence Salt Depo Stunted of Stunted of Shallow A Microtopo FAC-neutr | licators (two or more are required) ained Leaves (B9) Patterns (B10) Rhizospheres along Living Roots (C: of Reduced Iron (C4) osits (C5) or Stressed Plants (D1) hic Position (D2) aquitard (D3) ographic Relief (D4) ral Test (D5) |

D2--floating mat in pond/wetland complex