WETLAND DETERMINATION DATA FORM - Alaska Region

| Project | /Site: Susitna-Watana Hydroelectric Project | Вс | rough/City: | Matanusk | xa-Susitna Borough Sampling Date: 03-Jul-13 | | | | | | | |
|--|--|--------------------------------|--------------------------------|-------------------|--|--|--|--|--|--|--|--|
| Applica | int/Owner: Alaska Energy Authority | | | | Sampling Point: SW13_T121_03 | | | | | | | |
| | gator(s): JGK | L | andform (hill | side, terrac | ee, hummocks etc.): Flat | | | | | | | |
| - | elief (concave, convex, none): hummocky | | | | ° Elevation: 397 | | | | | | | |
| | ion : Southcentral Alaska | | 2.799343586 | _ | Long.: -149.571670532 Datum: WGS84 | | | | | | | |
| _ | | <u> </u> | 2.799040000 | , | | | | | | | | |
| | p Unit Name: | | | No ○ | NWI classification: PSS1/EM1E | | | | | | | |
| Are V Are V | egetation . Soil . , or Hydrology . | significantly naturally pro | disturbed? blematic? | Are "N (If nee | (If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ ded, explain any answers in Remarks.) | | | | | | | |
| 20MI | MARY OF FINDINGS - Attach site map sho | | pling point | locations | s, transects, important features, etc. | | | | | | | |
| Hydrophytic Vegetation Present? Yes No Signature No Signa | | | | | | | | | | | | |
| | Hydric Soil Present? Yes ● No C | | hin a Wetland? Yes No | | | | | | | | | |
| | Wetland Hydrology Present? Yes No | | W | unin a vv | etiand? Tes © No © | | | | | | | |
| | arks: GAME TRAIL THROUGH WETLAND SWTH SING DUNN SITE (1361) SOIL (1362) | | -1141 | -1-4 | | | | | | | | |
| VEGE | TATION -Use scientific names of plants. L | ist all spec | cies in the | piot. | | | | | | | | |
| | | Absolute | Dominant | | 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. 4. | | | | | Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) | | | | | | | |
| 5. | | | | | 111at Are OBL, FACW, OF FAC. 100.0% (A/B) | | | | | | | |
| 5. | Total Cover | | | | Prevalence Index worksheet: | | | | | | | |
| C | | | Total % Cover of: Multiply by: | | | | | | | | | |
| Sap | ling/Shrub Stratum 50% of Total Cover: | <u>0</u> 20% c | of Total Cover | 0 | OBL Species <u>86.2</u> x 1 = <u>86.2</u> | | | | | | | |
| | Myrica gale | 35 | ✓ | OBL | FAC Species 5.1 x 2 = 10.2 | | | | | | | |
| | Dasiphora fruticosa | | | FAC | FACUS paging 2 x 3 = 30 | | | | | | | |
| | Andromeda polifolia | 5 | | FACW | FACU Species 2 x4 = 8 UPL Species 0 x5 = 0 | | | | | | | |
| | Vaccinium oxycoccos | 0.1 | | OBL | | | | | | | | |
| 5. | | • | | | Column Totals: <u>103.3</u> (A) <u>134.4</u> (B) | | | | | | | |
| 6. | | 0 | | | Prevalence Index = B/A =1.301_ | | | | | | | |
| 7. | | | | | | | | | | | | |
| 8. 9. | | 0 | | | Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50% | | | | | | | |
| 10. | | | | | ✓ Prevalence Index is ≤ 3.0 | | | | | | | |
| 10. | Total Cover | | | | | | | | | | | |
| - | b Stratum 50% of Total Cover: | 25.05 20% | | | Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) | | | | | | | |
| 1. | Menyanthes trifoliata | | ✓ | OBL | Problematic Hydrophytic Vegetation (Explain) | | | | | | | |
| 2. | Trichophorum caespitosum | | | OBL OBL | Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | | | | | | |
| 3. | Carex aquatilis Eriophorum angustifolium | 0.1 | | OBL | The second secon | | | | | | | |
| 4. 5. | Danage and and differing | | | OBL | Plot size (radius, or length x width) <u>10m</u> | | | | | | | |
| 6. | Trientalis europaea | | | FACU | % Cover of Wetland Bryophytes (Where applicable) | | | | | | | |
| 7. | Carex rariflora | | | OBL | % Bare Ground | | | | | | | |
| 8. | Trichophorum alpinum | 5 | | OBL | Total Cover of Bryophytes 45 | | | | | | | |
| 9. | Eriophorum viridicarinatum | 0.1 | | OBL | <u></u> | | | | | | | |
| 10. | Viola epipsila | 0.1 | | FACW | Hydrophytic | | | | | | | |
| | Total Cover | | Vegetation | | | | | | | | | |
| L | 50% of Total Cover: | 26.65 20% c | of Total Cover | 10.66 | Present? Yes No | | | | | | | |
| Rem | arks: 1% dodecatheon | | | | | | | | | | | |

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T121_03

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators Matrix Redox Features | | | | | | cators) | | | | |
|--|-------------------|--------------|---------------|---|--------------|-------------------|----------|---------------------------|--------------------------------------|--|
| Depth (inches) | | | 0/- | | | | _Loc_2 | Texture | Remarks | |
| 0-15 | Color (moi | 5t) | <u> </u> | Color (moist) | <u>%</u> | Type ¹ | Loc | Texture | Fibric Organics | |
| | | | | | | | | | _ Tiblic Organics | |
| | | | | | | | | | _ | |
| | | | | | | | | | - | |
| | | | | | | | | | | |
| | | | | | | | | | - | |
| | | | | | | | | | _ | |
| - | | | | | | | | | _ | |
| | | | ——— | | | | | | _ | |
| | | | | | | | | | | |
| ¹Type: C=Cor | ncentration. D= | Depletion. F | | d Matrix ² Location | | | | nnel. M=Matrix | | |
| Hydric Soil I | indicators: | | | Indicators for Pr | | 4 | oils: | | | |
| Histosol o | r Histel (A1) | | ļ | Alaska Color Ch | hange (TA | 4) ⁴ | | Alaska Gleyed Without I | due 5Y or Redder | |
| ✓ Histic Epip | pedon (A2) | | ļ | Alaska Alpine s | wales (TA! | 5) | | Underlying Layer | | |
| Hydrogen | Sulfide (A4) | | ļ | Alaska Redox With 2.5Y Hue Other (Explain in Remarks) | | | | | | |
| Thick Dar | k Surface (A12) | | | , | | | | | | |
| Alaska Gle | eyed (A13) | | | One indicator of and an appropriat | | | | nary indicator of wetland | hydrology, | |
| Alaska Red | dox (A14) | | | | | • | | cseric | | |
| Alaska Gle | eyed Pores (A15 |) | | ⁴ Give details of co | olor chang | e in Remark | (S | | | |
| Restrictive Laye | er (if present): | | | | | | | | | |
| Type: FRC | | | | | | | | Hydric Soil Presen | t? Yes 💿 No 🔾 | |
| Depth (incl | hes): 15 | | | | | | | | | |
| | | | | | | | | | | |
| HYDROLO | | | | | | | | | | |
| _ | lrology Indicat | | | | | | | | licators (two or more are required) | |
| | ators (any one is | sufficient) | | | | | | | nined Leaves (B9) | |
| | Vater (A1) | | | Inundation V | | _ | | | Patterns (B10) | |
| ✓ High Wat | , | | | Sparsely Veg | | ncave Surfac | ce (B8) | | Rhizospheres along Living Roots (C3) | |
| ✓ Saturation | . , | | | Marl Deposits | . , | | | | of Reduced Iron (C4) | |
| ☐ Water Ma | | | | Hydrogen Su | | | | ☐ Salt Depo | | |
| | t Deposits (B2) | | | ☐ Dry-Season V | | | | | or Stressed Plants (D1) | |
| ☐ Drift Depo | ` , | | | Uther (Explai | in in Rema | ırks) | | | hic Position (D2) | |
| | or Crust (B4) | | | | | | | ✓ Shallow A | | |
| ☐ Iron Depo | ` , | | | | | | | | ographic Relief (D4) | |
| | Soil Cracks (B6) | | | | | | | ✓ FAC-neutr | al Test (D5) | |
| Field Observa | | | 🝙 | | | | | | | |
| Surface Wate | r Present? | Yes O | | Depth (inche | <u>:</u> s): | | | | | |
| Water Table F | Present? | Yes | No \bigcirc | Depth (inche | es): | | Wetlan | nd Hydrology Prese | nt? Yes • No 🔾 | |
| Saturation Pro (includes capi | | Yes | No | Depth (inche | es): | | | | | |
| Describe Recor | rded Data (strea | m gauge, n | nonitor well, | , aerial photos, prev | vious inspe | ection) if ava | ailable: | | | |
| Remarks: | | | | | | | | | | |
| | in patches 1 in (| deep. water | r table and s | saturation w/in 12 in | nches of s | urface. | | | | |
| EC 40 pH 6.2 | III pase | | | , , , , , , , , , , , , , , , , , , , | 10.122 | 11.000 | | | | |
| | | | | | | | | | | |
| 1 | | | | | | | | | | |

U.S. Army Corps of Engineers Alaska Version 2.0