WETLAND DETERMINATION DATA FORM - Alaska Region

| /Site: Susitna-Watana Hydroelectric Project | | Borough/City: | Denali Bo | orough Sampling Date: 08-Aug-13 |
|--|---|--|--|--|
| ant/Owner: Alaska Energy Authority | | | | Sampling Point: SW13_T169_01 |
| | | Landform (hill | side, terrac | e, hummocks etc.): Toeslope |
| elief (concave, convex, none): hummocky | | | | ° Elevation: 825 |
| ion : Interior Alaska Mountains | Lat.: | - 63.416861398 | 31 | Long.: -148.649325399 Datum: WGS84 |
| | | | | NWI classification: PSS1B |
| regetation , Soil , or Hydrology regetation , Soil , or Hydrology | significant naturally p | ly disturbed? problematic? | Are "N (If nee | (If no, explain in Remarks.) Iormal Circumstances" present? Yes No eded, explain any answers in Remarks.) |
| | | npiing point | locations | s, transects, important leatures, etc. |
| Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ | | | | - |
| ETATION - Use scientific names of plants. L | ist all sp | ecies in the | plot. | |
| | Absolute | Dominant | Indicator | Dominance Test worksheet: |
| e Stratum | | Species? | Status | Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) |
| | | . 📙 | | Total Number of Dominant |
| | | | | Species Across All Strata: 4 (B) |
| | | - 📙 | | Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) |
| | | - 📙 | | That Are OBL, FACW, OF FAC. 100.0% (AVB) |
| Total Cover | | . <u> </u> | | Prevalence Index worksheet: Total % Cover of: Multiply by: |
| ling/Shrub Stratum 50% of Total Cover: | 0 20% | 6 of Total Cover: | 0 | OBL Species x 1 = |
| Empetrum nigrum | 10 | ✓ | FAC | FACW Species <u>8</u> x 2 = <u>16</u> |
| Potulo nono | | | FAC | FAC Species <u>41.1</u> x 3 = <u>123.3</u> |
| Tarifacione de la contraction de la contractio | | | FACW | FACU Species4 x 4 =16 |
| Vaccinium uliginosum | | _ | FAC | UPL Species <u>0</u> x 5 = <u>0</u> |
| Picea glauca | 4 | - 📙 | FACU | Column Totals: <u>53.1</u> (A) <u>155.3</u> (B) |
| | | . 📙 | | Prevalence Index = B/A = 2.925 |
| | | | | |
| | | | | Hydrophytic Vegetation Indicators: |
| | | . 📙 | | Dominance Test is > 50% |
| | | . " | | ✓ Prevalence Index is ≤3.0 |
| | | % of Total Cover | : 8.4 | Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| | 5 | . 💆 | FAC | Problematic Hydrophytic Vegetation (Explain) |
| | | | FAC | Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| | | - <u> </u> | | be present, unless disturbed of problematic. |
| | | - V | FACW | Plot size (radius, or length x width) |
| | | | | % Cover of Wetland Bryophytes |
| | | | | (Where applicable) % Bare Ground 10 |
| | | | | % Bare Ground 10 Total Cover of Bryophytes 20 |
| | | | | |
| | | | | |
| | _ 0 | | | Hydrophytic |
| | | . <u> </u> | | Hydrophytic Vegetation Present? Yes No |
| | ant/Owner: Alaska Energy Authority gator(s): BAB relief (concave, convex, none): hummocky gion: Interior Alaska Mountains gu Unit Name: matic/hydrologic conditions on the site typical for this if (regetation | ant/Owner: Alaska Energy Authority gator(s): BAB relief (concave, convex, none): hummocky gion: Interior Alaska Mountains punit Name: matic/hydrologic conditions on the site typical for this time of yea (regetation | ant/Owner: Alaska Energy Authority gator(s): BAB | ant/Owner: Alaska Energy Authority gator(s): BAB |

US Army Corps of Engineers Alaska Version 2.0

SOIL Sampling Point: SW13_T169_01

| 0-4 100 Fibric Organics 4-10 100 Sand subangular gravel and course sands and gravels 10-14 5Y 2.5/2 100 Sand subangular gravel and course sands 14-20 5Y 5/2 100 Sand subangular gravel and course sands 14-20 5Y 5/2 100 Sand subangular gravel and course sands 14-20 Sand subangular gravel and course sands 14-20 Sand subangular gravel and course sands 14-20 Sand subangular gravel and course sands 15-20 Sand subangular gravel and course sands 16-20 Sand subangular gravel and course sands 17-20 Sand subangular gravel and course sands 18-20 Sand subangular gravel and sourse san | Depth (inches) | Color (m | noist) | % | Color (moist) | % | Type ¹ | _ Loc _2 | Texture | Remarks |
|--|--|---|------------------------|---|---|--|----------------------------------|-----------------|--|---|
| 10-14 57 2.5/2 100 Sand subangular gavel and course sands 14-20 57 5/2 100 Sand subangular gavel and course sands Sand subangular gavel and course sands | | COIOI (II | ioisty | | Color (moise) | . <u></u> - | Турс | | Fibric Organics | |
| 10-14 SY 2.5/2 100 Send subanquiter gravel and course sends | 4-10 | | | 100 | | | | | Hemic Organics | w semi ang course sands and grav |
| Secondary Indicators: | | | 2 5/2 | | | | | | Sand | |
| Type: C=Concentration. D=Depletion. RM=Reduced Matrix Location: PL=Pure Lining. RC=Root Channel. M=Matrix | | | | | | | | | | |
| Histosol or Histe (A1) | 14-20 | | | | | | | | Juliu | Subangular graver and course sand |
| Histosol or Histe (A1) | | | | | | | | | | |
| Histosol or Histe (A1) | | | | | | | | | | |
| Histosol or Histel (A1) Alaska Alabine sweles (TA5) Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A13) Alaska Gleyed (A15) Alaska Gleyed Pores (A15) *Give details of color change in Remarks *Give details of color change in Remarks *Betrictive Layer (if present): Type: Type: Hydric Soil Present? Yes No Petland Hydrology Indicators: Inundation Visible on Aerial Imagery (B7) High Water Table (A2) Saturation (A3) Mart Popolist (B3) Depth (Inches): Bediment Deposits (B1) Drift Deposits (B3) Dry-Season Water Table (C2) Drift Deposits (B3) Mart Popolist (B4) Iron Deposits (B5) Surface (B6) Depth (Inches): Wetland Hydrology Present? Yes No Depth (Inches): Wetland Hydrology Present? Wes No Depth (Inches): Wetland Hydrology Present? Yes No Depth (Inches): No Depth (Inc | Type: C=Co | ncentration. [| =Depletion | . RM=Reduce | | | | | nnel. M=Matrix | |
| Histic Epipedon (A2) | lydric Soil I | indicators: | | | | 4 | 1 | ils: | 1 | |
| Thick Dark Surface (A12) | _ | | | | | | | | | ut Hue 5Y or Redder |
| Thick Dark Surface (A12) Alaska Gleyed (A13) Alaska Redox (A14) Alaska Redox (A15) Alaska Redox (A16) Alaska Redox (A16) Alaska Redox (A15) Alaska Redox (A16) Alaska Redox (A17) Alaska Redox (A17) Alaska Redox (A18) Alaska Redox (A19) Alaska Redox (A16) Alaska Redox (A17) Alaska Remox (A17) Alaska | = | . , | | | | ` ' | _ | | , , , | marke) |
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| Alaska Gleyed Pores (A15) 4 Give details of color change in Remarks estrictive Layer (if present): Type: Depth (inches): ### Warrie Soil Present? Yes ● No ○ Present? Indicators (two or more are required) Water Stained Leaves (B9) Surface Water (A1) □ Inundation Visible on Aerial Imagery (B7) □ Drainage Patterns (B10) Water Marks (B1) □ Sparsely Vegetated Concave Surface (B8) □ Oxidized Rhizospheres along Living Roots (C1) Water Marks (B1) □ Hydrogen Sulfide Odor (C1) □ Salt Deposits (C5) Sediment Deposits (B2) □ Dry-Season Water Table (C2) □ Sutted or Stressed Plants (D1) Drift Deposits (B3) □ Other (Explain in Remarks) □ Geomorphic Position (D2) □ Algal Mat or Crust (B4) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Other (Explain in Remarks) □ Shallow Aquitard (D3) □ Iron Deposits (B5) □ Water Table Present? Yes ● No □ Depth (inches): Water Table Present? Yes ● No □ Depth (inches): 3 Bescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: | _ | , , , | | | | | | | | |
| Appropries (if present): Type: Depth (inches): ### Widric Soil Present? Yes No ### No ### No ### No ### Present? Yes No ### No ### No ### No ### Present? Yes No ### No ### No ### No ### No ### No ### No ### No ### No ### No ### No ### No ### No ### Present? Yes No ### No ### Depth (inches): ### Depth (inche | _ | ` ' | 15) | | 4 Give details of c | olor change i | in Remarks | 5 | | |
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| Saturation Present? (includes capillary fringe) Yes No Depth (inches): 3 escribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: | YDROLO Vetland Hyd Verliand Frimary Indica Surface V ✓ High Wate ✓ Saturation ✓ Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S ield Observation | Irology Indicators (any one Vater (A1) For Table (A2) For Table (A2) For Table (B1) For Crust (B4) For Crust (B4) For Crust (B5) For Crust (B6) | e is sufficien | | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season Other (Expla | getated Conca is (B15) ulfide Odor (C Water Table (in in Remark | ave Surface C1) (C2) | | Water □ Draina □ Oxidiz □ Preser □ Salt D □ Stunte ✔ Geome □ Shallo □ Microt | Stained Leaves (B9) age Patterns (B10) ed Rhizospheres along Living Roots ace of Reduced Iron (C4) eposits (C5) ed or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) |
| escribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available: | YDROLO Vetland Hyd Verliand Frimary Indica Surface V V High Wat V Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S ield Observa | PIGY Irology Indicators (any one Vater (A1) Per Table (A2) In (A3) Parks (B1) Poposits (B2) Posits (B3) Por Crust (B4) Posits (B5) Posits (B5) Posits (B6) Posits (B7) Posits (B8) Present? | e is sufficien) Yes |) No ⊙ | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season Other (Expla | getated Conca s (B15) ulfide Odor (C Water Table in in Remark | ave Surface C1) (C2) | e (B8) | Water Draina Oxidiz Preser Salt D Stunte Geom Shallo Microt | Stained Leaves (B9) age Patterns (B10) ed Rhizospheres along Living Roots ace of Reduced Iron (C4) eposits (C5) ed or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) eutral Test (D5) |
| | YDROLO Vetland Hyd Verimary Indica Surface V ✓ High Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S ield Observa Surface Water Water Table F | Present? | Yes Yes | No • No O | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season Other (Expla | getated Conca s (B15) ulfide Odor (C Water Table (in in Remark ess): | ave Surface C1) (C2) | e (B8) | Water Draina Oxidiz Preser Salt D Stunte Geom Shallo Microt | Stained Leaves (B9) age Patterns (B10) ed Rhizospheres along Living Roots ace of Reduced Iron (C4) eposits (C5) ed or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) eutral Test (D5) |
| emarks: | YDROLO Vetland Hyd Vrimary Indica Surface V V High Wate V Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S ield Observation Surface Water Water Table F Saturation Pre (includes capi | Por Crust (B4) cosits (B5) coil Cracks (B6) cresent? | Yes Yes | No ●No ○No ○No ○ | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season Other (Expla | getated Conca s (B15) ulfide Odor (C Water Table in in Remarks in in Remarks es): | ave Surface C1) (C2) s) | e (B8) | Water Draina Oxidiz Preser Salt D Stunte Geom Shallo Microt | Stained Leaves (B9) age Patterns (B10) ed Rhizospheres along Living Roots ace of Reduced Iron (C4) eposits (C5) ed or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) eutral Test (D5) |
| | YDROLO Vetland Hyd Vrimary Indica Surface V V High Wate V Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Surface S ield Observation Surface Water Water Table F Saturation Pre (includes capi | Por Crust (B4) cosits (B5) coil Cracks (B6) cresent? | Yes Yes | No ●No ○No ○No ○ | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season Other (Expla | getated Conca s (B15) ulfide Odor (C Water Table in in Remarks in in Remarks es): | ave Surface C1) (C2) s) | e (B8) | Water Draina Oxidiz Preser Salt D Stunte Geom Shallo Microt | Stained Leaves (B9) age Patterns (B10) ed Rhizospheres along Living Roots ace of Reduced Iron (C4) eposits (C5) ed or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) eutral Test (D5) |
| | YDROLO YDROLO YDROLO YDROLO YELIAND HYD YMATER MA Sediment Drift Depo Algal Mat Jiron Depo Surface S YELIAND HYD Surface S YMATER MA Sediment Drift Depo Algal Mat Jiron Depo Surface S YMATER MA Seld Observ Surface Water Vater Table F Saturation Presincludes capi Sescribe Reconsesses Selector | Por Crust (B4) cosits (B5) coil Cracks (B6) cresent? | Yes Yes | No ●No ○No ○No ○ | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season Other (Expla | getated Conca s (B15) ulfide Odor (C Water Table in in Remarks in in Remarks es): | ave Surface C1) (C2) s) | e (B8) | Water Draina Oxidiz Preser Salt D Stunte Geom Shallo Microt | Stained Leaves (B9) age Patterns (B10) ed Rhizospheres along Living Roots ace of Reduced Iron (C4) eposits (C5) ed or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) eutral Test (D5) |

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