WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project | Borough/City: M | atanuska-Susitna Borough Sampling Date: 19-Aug-15 |
|---|-------------------------|---|
| Applicant/Owner: Alaska Energy Authority | | Sampling Point: SW15_T322_02 |
| Investigator(s): BAB | Landform (hillsid | e, terrace, hummocks etc.): Kettle |
| Local relief (concave, convex, none): concave | Slope: 0.0 % | / 0.0 ° Elevation: |
| Subregion : Cook Inlet Mountains | Lat.: | Long.: Datum: WGS84 |
| Soil Map Unit Name: | | NWI classification: PUBH |
| Are climatic/hydrologic conditions on the site typical for this time of | | No O (If no, explain in Remarks.) |
| | ficantly disturbed? | Are "Normal Circumstances" present? Yes 🖲 No 🔾 |
| Are Vegetation . , Soil . , or Hydrology . natur | rally problematic? | (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | g sampling point lo | cations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No | la th | a Compled Area |
| Hydric Soil Present? Yes ● No ○ | | e Sampled Area in a Wetland? Yes \bullet No \bigcirc |
| Wetland Hydrology Present? Yes $ullet$ No $igodot$ | with | in a Wetland? Yes $ullet$ No $igcup$ |
| Remarks: small pond in basin. bouldery shores, little to no fringe VEGETATION - Use scientific names of plants. List a | | ht |
| | in species in the pit | Dominance Test worksheet: |
| Tree Stratum % | | dicator Dominance rest worksheet. Status Number of Dominant Species That are OBL, FACW, or FAC: 0 |
| 1. 2. | | Total Number of Dominant Species Across All Strata: 0 (B) |
| 3. | | Percent of dominant Species |
| 4. | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 5 | | Prevalence Index worksheet: |
| Total Cover: | 0 | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum 50% of Total Cover: 0 | _ 20% of Total Cover: _ | OBL Species x 1 = |
| 1 | | FACW Species <u>0</u> x 2 = <u>0</u> |
| 2. | | FAC Species x 3 = |
| 3 | | FACU Species x 4 = |
| 4 | | UPL Species x 5 = |
| 5 | | Column Totals: <u>3.1</u> (A) <u>3.1</u> (B) |
| 6 7 | | Prevalence Index = B/A = <u>1.000</u> |
| 8 | | Hydrophytic Vegetation Indicators: |
| 9. | | Dominance Test is > 50% |
| 10. | | ✓ Prevalence Index is ≤ 3.0 |
| Total Cover: | 0 | Morphological Adaptations (Provide supporting data in |
| Herb Stratum 50% of Total Cover: 0 | 20% of Total Cover: | 0 Remarks or on a separate sheet) |
| 1. Sparganium angustifolium | 2 | DBL Problematic Hydrophytic Vegetation (Explain) |
| 2. Equisetum fluviatile | 1 | DBL ¹ Indicators of hydric soil and wetland hydrology must |
| 3. Nuphar polysepala | 0.1 | DBL be present, unless disturbed or problematic. |
| 4 | <u> </u> | Plot size (radius, or length x width) <u>10m</u> |
| 5 | | % Cover of Wetland Bryophytes |
| 6 | | (Where applicable) |
| 7 | | % Bare Ground _99 |
| 8 | | Total Cover of Bryophytes |
| 9 | | — |
| 10Total Cover: | <u> </u> | Hydrophytic Vegetation |
| 50% of Total Cover: | | |
| | | |

Remarks: bare ground is water. <5% total herb cover, thus no herb species considered dominant.

| | Matrix | | ded to document the indicator or confirm the absence of indicators) Redox Features | | | | | |
|---|---|--|---|--|-------------------------------|---------------|---|---|
| Depth (inches) Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks | |
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| | | | , | | | | - | |
| ¹ Type: C=Concentrat | ion. D=Depletio | n. RM=Reduce | ed Matrix ² Location | n: PL=Pore | e Linina. RC | =Root Cha | nnel. M=Matrix | |
| Hydric Soil Indicato | | | Indicators for Pr | | | | | |
| Histosol or Histel | | | Alaska Color C | | 4 | | Alaska Gleyed Witho | ut Hue 5V or Pedder |
| Histic Epipedon (A | . , | | Alaska Alpine s | | - | | Underlying Layer | |
| | - | | Alaska Redox \ | • | , | \checkmark | Other (Explain in Re | marks) |
| Hydrogen Sulfide | | | | VIUI 2.51 II | ue | | | |
| Thick Dark Surfac | () | | ³ One indicator of | hydrophyti | c vegetatio | n, one prin | nary indicator of wetla | nd hydrology, |
| Alaska Gleyed (A1 | - | | and an appropriat | te landscap | e position r | nust be pre | esent | |
| ` | , | | ⁴ Give details of o | olor change | e in Remark | S | | |
| Alaska Gleyed Por | es (A15) | | | 5 | | | | |
| Restrictive Layer (if pre | esent): | | | | | | | |
| Туре: | | | | | | | Hydric Soil Pres | ent? Yes $ullet$ No $igloo$ |
| Depth (inches): | | | | | | | | |
| Remarks: | | | | | | | | |
| no pit due to innundat | on | | | | | | | |
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| HYDROLOGY | - | | | | | | | |
| Wetland Hydrology | | -4) | | | | | | Indicators (two or more are required) |
| Wetland Hydrology Primary Indicators (ar | iv one is sufficie | nt) | | | | | Water | Stained Leaves (B9) |
| Wetland Hydrology Primary Indicators (ar Surface Water (A | iv one is sufficie 1) | nt) | ✓ Inundation V | | - | | Water | Stained Leaves (B9) ge Patterns (B10) |
| Wetland Hydrology Primary Indicators (ar Surface Water (A High Water Table | iv one is sufficie 1) | nt) | Sparsely Veg | etated Con | - | | Water | Stained Leaves (B9) ge Patterns (B10) ed Rhizospheres along Living Roots (C3) |
| Wetland Hydrology Primary Indicators (ar Surface Water (A High Water Table Saturation (A3) | ay one is sufficie 1) • (A2) | nt) | Sparsely Veg | etated Con s (B15) | cave Surfac | | Water Water Water Oraina Oxidize Preser | Stained Leaves (B9) ge Patterns (B10) ed Rhizospheres along Living Roots (C3) ce of Reduced Iron (C4) |
| Wetland Hydrology Primary Indicators (ar Surface Water (A High Water Table Saturation (A3) Water Marks (B1) | iy one is sufficie 1) : (A2) | nt) | Sparsely Veg | etated Con s (B15) Ifide Odor | cave Surfac | | Water Water Oraina Oxidiz Preser | Stained Leaves (B9) ge Patterns (B10) ed Rhizospheres along Living Roots (C3) ice of Reduced Iron (C4) eposits (C5) |
| Wetland Hydrology Primary Indicators (ar Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposition | n <u>y one is sufficie</u> 1) • (A2) • • • (B2) | nt) | Sparsely Veg Marl Deposit Hydrogen Su Dry-Season | etated Con s (B15) Ifide Odor (Water Table | cave Surfac (C1) e (C2) | | Water Water Oraina Oxidiz Salt D Salt D Stunte | Stained Leaves (B9) ge Patterns (B10) ed Rhizospheres along Living Roots (C3) ce of Reduced Iron (C4) eposits (C5) d or Stressed Plants (D1) |
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