WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project | Borough/City: | Matanuska-Susitna Borough Sa | ampling Date: 09-Jul-13 |
|--|---|---|----------------------------|
| Applicant/Owner: Alaska Energy Authority | | Sampling | Point: SW13_T110_05 |
| Investigator(s): JER | Landform (hil | side, terrace, hummocks etc.): | Channel (active) |
| Local relief (concave, convex, none): flat | Slope: | % /° Elevation: 940 | |
| Subregion : Interior Alaska Mountains | Lat.: 62.76081717 | Long.: -148.08148813 | 2 Datum: WGS84 |
| Soil Map Unit Name: | | NWI classific | ation: R3UBH |
| | e of year? Yes nificantly disturbed? turally problematic? | No O (If no, explain in Re Are "Normal Circumstances" pr (If needed, explain any answers) | resent? Yes 💿 No 🔿 |
| SUMMARY OF FINDINGS - Attach site map showin | ng sampling point | locations, transects, importa | nt features, etc. |
| Hydrophytic Vegetation Present? Yes No | | | |

| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? | ~ | No () No () No () | Is the Sampled Area within a Wetland? | Yes \odot No \bigcirc | |
|---|---|-------------------------|---------------------------------------|---------------------------|--|
| | | | | | |

Remarks: upper perrenial stream with rocky bottom, 3--4ft wide, 6--12in deep. partially obscurred by overhanging salix, alncri

VEGETATION - Use scientific names of plants. List all species in the plot.

| | | Absolu | te Dominant | Indicator | Dominance Test worksheet: |
|-----------------------------|---------------------|--------|--------------------|-----------|--|
| Tree Stratum | | % Cov | | Status | Number of Dominant Species |
| 1. | | (| | | That are OBL, FACW, or FAC: (A) |
| 2. | | (| \square | | Total Number of Dominant Species Across All Strata: 0 (B) |
| 3 | | (| | | Percent of dominant Species |
| Δ | | | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 5. | | | | | Prevalence Index worksheet: |
| | Total Cover | r:0 | _ | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum | 50% of Total Cover: | 0 2 | 0% of Total Cover: | 0 | OBL Species $0 \times 1 = 0$ |
| 1 | | (| | | FACW Species 0 x 2 = 0 |
| | | | \square | | FAC Species $0 \times 3 = 0$ |
| 3 | | (| \square | | FACU Species 0 x 4 = 0 |
| Δ | | | \Box | | UPL Species x 5 = |
| 5. | | | | | Column Totals: <u>0</u> (A) <u>0</u> (B) |
| 6. | | , | | | |
| 7. | | (| | | Prevalence Index = B/A =0.000 |
| 8 | | | | | Hydrophytic Vegetation Indicators: |
| 9. | | | | | Dominance Test is > 50% |
| 10. | | | | | Prevalence Index is ≤ 3.0 |
| | Total Cover | r: 0 | | | Morphological Adaptations ¹ (Provide supporting data in |
| Herb Stratum | 50% of Total Cover: | | | : 0 | Remarks or on a separate sheet) |
| 1 | | (| | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 2. | | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 3. | | | | | be present, unless disturbed or problematic. |
| 4. | | |) | | |
| 5. | | |) | | Plot size (radius, or length x width) <u>10m</u> |
| 6. | | - | | | % Cover of Wetland Bryophytes (Where applicable) |
| 7. | | | | | % Bare Ground |
| 8. | | | | | Total Cover of Bryophytes |
| 9. | | | | | |
| 10. | | | | | Hydrophytic |
| | Total Cover | • 0 | | | Vegetation |
| | 50% of Total Cover: | 0 2 | 0% of Total Cover: | 0 | Present? Yes No |
| Remarks: unvegetated active | channel w bryos | | | | |

| SOIL |
|------|
|------|

| | (Describe to the depth no Matrix | eeded to docum | | onfirm the ab dox Featu | | icators) | | |
|----------------------------|---|----------------|--|----------------------------|-------------------|---------------------|--------------------------------------|-------------------------------------|
| Depth — (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | _Loc_2 | Texture | Remarks |
| | | | | | .,,,,, | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | · · | | | | | | | |
| | | | | | | | | |
| | · · | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Conce | ntration. D=Depletion | . RM=Reduce | ed Matrix ² Location | n: PL=Por | e Lining. R | C=Root Cha | nnel. M=Matrix | |
| Hydric Soil Indi | icators: | | Indicators for Pr | oblemati | c Hydric S | ioils: ³ | | |
| Histosol or Hi | istel (A1) | | Alaska Color C | hange (TA | 4) ⁴ | | Alaska Gleyed Without H | ue 5Y or Redder |
| Histic Epiped | on (A2) | | Alaska Alpine s | wales (TA | 5) | | Underlying Layer | |
| Hydrogen Su | | | Alaska Redox \ | Nith 2.5Y H | Hue | \checkmark | Other (Explain in Remark | ശ) |
| Thick Dark Su | urface (A12) | | | | | | | |
| Alaska Gleyed | d (A13) | | ³ One indicator of and an appropriat | | | | nary indicator of wetland h esent | iydrology, |
| 🗌 Alaska Redox | (A14) | | | | | | | |
| Alaska Gleyed | d Pores (A15) | | ⁴ Give details of c | olor chang | e in Reman | KS | | |
| Restrictive Layer (| if present): | | | | | | | |
| Type: | | | | | | | Hydric Soil Present | ? Yes 🖲 No 🔾 |
| Depth (inches |): | | | | | | | |
| Remarks: | | _ | | _ | _ | | | |
| active channel, as | sume hydric soil | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLOG | Υ | | | | | | | |
| Wetland Hydrol | | _ | | _ | _ | | | cators (two or more are required) |
| · | s (any one is sufficien | <u>t)</u> | | | | | _ | ned Leaves (B9) |
| Surface Wate | | | Inundation V | | - | | | Patterns (B10) |
| High Water | | | Sparsely Veg | | ncave Surfa | ace (B8) | | hizospheres along Living Roots (C3) |
| Saturation (A3) | | | | | | () | | |
| | Water Marks (B1) Hydrogen Sulfide Odor (C1) Salt Deposits (C5) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted or Stressed F | | | | | | Stressed Plants (D1) | |
| | | | Dry-Season | | . , | | | ic Position (D2) |
| | | | | III III Kemu | irks) | | | |
| | Algal Mat or Crust (B4) Shallow Aquitard (D3) Iron Deposits (B5) Microtopographic Relief (D4) | | | | | | | |
| Surface Soil | () | | | | | | | al Test (D5) |
| Field Observatio | ons: | | | | | | | . , |
| Surface Water Pr | resent? Yes | • No 🔿 | Depth (inche | es): 6 | | | | |
| Water Table Pres | sent? Yes | ● No ○ | Depth (inche | -s): () | | Wetla | nd Hydrology Presen | t? Yes 🖲 No 🔾 |
| Saturation Prese | | No | | , | | | | |
| (includes capillar | YAC \ | | Depth (inche | ₂s): 0 | | | | |
| Describe Recorded | d Data (stream gauge | , monitor wel | l, aerial photos, pre | vious inspe | ection) if av | vailable: | | |
| | | | | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |