WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project | Borough/City: Matanuska-Susitna Borough Sampling Date: 04-Jul-13 |
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| Applicant/Owner: Alaska Energy Authority | Sampling Point: SW13_T137_04 |
| nvestigator(s): WAD, BAB | Landform (hillside, terrace, hummocks etc.): Pothole |
| Local relief (concave, convex, none): concave | Slope: % / 0.0 ° Elevation: 997 |
| Subregion : Southcentral Alaska | Lat.: 62.830001703 Long.: -148.879661264 Datum: NAD83 |
| Soil Map Unit Name: | NWI classification: PUBH |
| Are Vegetation ☑ , Soil ☑ , or Hydrology □ na SUMMARY OF FINDINGS - Attach site map show | me of year? Yes • No · (If no, explain in Remarks.) significantly disturbed? Are "Normal Circumstances" present? Yes • No · (Yes • (Yes • (Yes • No · (Yes • (Yes |
| Hydrophytic Vegetation Present? Yes ● No ○ Hydric Soil Present? Yes ● No ○ Wetland Hydrology Present? Yes ● No ○ | Is the Sampled Area |
| Remarks: subalpine tarn | |
| VEGETATION - Use scientific names of plants. Lis | St all species in the plot. Absolute Dominant Indicator Number of Dominant Species |

| Tree Stratum | | % Cover | Species? | Status | Number of Dominant Species |
|----------------------------|--------------------------------|-----------|-----------------|---------------|-----------------------------------------------------------------------------|
| 1. | | 0 | | | That are OBL, FACW, or FAC: (A) |
| 2. | | 0 | | | Total Number of Dominant Species Across All Strata: 0 (B) |
| 3. | | 0 | | | Percent of dominant Species |
| 4. | | 0 | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 5. | | 0 | | | Prevalence Index worksheet: |
| | Total Cover: | 0 | | | Total % Cover of: Multiply by: |
| Sapling/Shrub Stratum | 50% of Total Cover: | 0 20% 0 | of Total Cover: | 0 | OBL Species x 1 = |
| 1 | | 0 | | | FACW Species <u>0</u> x 2 = <u>0</u> |
| 2. | | 0 | | | FAC Species x 3 = |
| | | | | | FACU Species x 4 = |
| 4 | | 0 | | | UPL Species x 5 = |
| 5 | | 0 | | | Column Totals: <u>0</u> (A) <u>0</u> (B) |
| 6 | | 0 | | | Prevalence Index = B/A = 0.000 |
| 7 | | 0 | | | |
| 8 | | 0 | | | Hydrophytic Vegetation Indicators: |
| 9 | | | | | Dominance Test is > 50% |
| 10. | | 0 | | | Prevalence Index is ≤3.0 |
| | 0 | | | | |
| Herb Stratum | 50% of Total Cover: | 0 20% | of Total Cover | : 0 | Remarks or on a separate sheet) |
| 1 | | 0 | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 2. | | 0 | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 3 | | - | | | be present, unless disturbed or problematic. |
| 4. | | 0 | | | Plot size (radius, or length x width) <u>10m</u> |
| 5 | | 0 | | | % Cover of Wetland Bryophytes |
| 6. | | 0 | | | (Where applicable) |
| 7 | | 0 | | | % Bare Ground |
| 8 | | 0 | | | Total Cover of Bryophytes |
| 9 | | 0 | | | |
| 10 | | 0 | | | Hydrophytic |
| | Total Cover: | | | | Vegetation Present? Yes • No · |
| | 50% of Total Cover: | 0 20% (| of Total Cover: | 0 | Present? Yes No |
| Remarks: unvegetated water | body. very thin fringe with ca | armem but | banks are we | ell drained g | gravelly uplands. |

| Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features | | | | | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|---------------|----------------------------------|-----------------------|---------------|--------------------|----------------------------------------------|-----------------------------------------|
| Depth (inches) | Color (moist) | | % | Color (moist) | <u></u> | | Loc 2 | Texture | Remarks |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | , | | | | | | - | | |
| 17 0.0 | | | | 2 | | | | | |
| ¹ Type: C=Conce | ntration. D=De | pletion. R | M=Reduc | ced Matrix ² Location | | - | | innel. M=Matrix | |
| Hydric Soil Indi | icators: | | | Indicators for Pr | | 4 | oils: ³ | ~ | |
| Histosol or Hi | . , | | | Alaska Color Cl | • • | | | Alaska Gleyed Without H Underlving Laver | ue 5Y or Redder |
| Histic Epipede | | | | Alaska Alpine s | - | - | | Onderlying Layer Other (Explain in Remark | c) |
| Hydrogen Sul | . , | | | Alaska Redox V | Nith 2.5Y r | lue | | | S) |
| Thick Dark Su | () | | | ³ One indicator of | [;] hydrophy | tic vegetatic | on, one prin | nary indicator of wetland h | ydrology, |
| Alaska Gleyed | | | | and an appropriat | | | | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Alaska Redox | () | | | ⁴ Give details of c | olor chang | e in Remark | s | | |
| · · | . , | | | | | | 1 | | |
| Restrictive Layer (| if present): | | | | | | | | |
| Type: | ۱. | | | | | | | Hydric Soil Present | ? Yes 🖲 No 🔿 |
| Depth (inches) |): | | | | | | | | |
| Remarks: | | | | | | | | | |
| pond, assume hyd | Iric soil. | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| HYDROLOG | | | | | | | | | |
| Wetland Hydrol | | | | | | | | | cators (two or more are required) |
| Primary Indicator | | ufficient) | | | | | | _ | ned Leaves (B9) |
| Surface Water | . , | | | Inundation V | | - | | | atterns (B10) |
| High Water T | . , | | | Sparsely Veg | | ncave Surfac | ce (B8) | | hizospheres along Living Roots (C3) |
| Water Marks | | | | Marl Deposits | · · · | (01) | | Salt Depos | f Reduced Iron (C4) |
| Sediment De | | | | Hydrogen Su | | | | | Stressed Plants (D1) |
| | | | | Dry-Season V | | • • | | Geomorph | · , |
| Algal Mat or | () | | | | IN III Keina | irks) | | | uitard (D3) |
| Iron Deposite | | | | | | | | | raphic Relief (D4) |
| Surface Soil | | | | | | | | | l Test (D5) |
| Field Observatio | . , | | | | | | | | |
| Surface Water Pr | | Yes 🖲 | No \bigcirc | Depth (inche | es): 40 | | | | |
| Water Table Pres | sent? | Yes 〇 | No 🖲 | Depth (inche | , | | Wetla | nd Hydrology Presen | t? Yes 🖲 No 🔾 |
| Saturation Preser (includes capillar | | Yes \bigcirc | No 🖲 | Depth (inche | es): | | | | |

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspection) if available:

Remarks:

small inlet and outlet r3ubh streams. Shallow water