WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project | В | orough/City: | Matanusk | xa-Susitna Borough Sampling Date: 31-Jul-13 |
|---|--------------|----------------|---------------|--|
| Applicant/Owner: Alaska Energy Authority | | | | Sampling Point: SW13_T155_04 |
| nvestigator(s): WAD, RWM | | Landform (hill | lside, terrac | ce, hummocks etc.): depression |
| Local relief (concave, convex, none): concave | | Slope: | | 3 ° Elevation: 112 |
| Subregion : Interior Alaska Mountains | Lat: | 63.204772472 | | Long.: -148.430276155 Datum: NAD83 |
| Soil Map Unit Name: | | 30.204112412 | = | NWI classification: PUBH |
| Are climatic/hydrologic conditions on the site typical for this | time of voor | yos. | ● No ○ | |
| Are Vegetation, Soil, or Hydrology | | disturbed? | | (If no, explain in Remarks.) Normal Circumstances" present? Yes ● No ○ |
| Are Vegetation ✓ , Soil ✓ , or Hydrology ☐ | , | | | eded, explain any answers in Remarks.) |
| | | | | |
| SUMMARY OF FINDINGS - Attach site map sho | wing sam | pling point | locations | s, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No | \supset | | | |
| Hydric Soil Present? Yes ● No (| \supset | | | ıpled Area /etland? Yes ◉ No ◯ |
| Wetland Hydrology Present? Yes No | C | Wi | ithin a W | etland? res ⊕ No ∪ |
| Remarks: subalpine tarn deeper than previous plot on trar | sect. substr | ate large bloc | ks and cobb | bles. |
| | | | | |
| /EGETATION - Use scientific names of plants. I | ist all spe | cies in the | plot. | |
| | Absolute | Dominant | Indicator | Dominance Test worksheet: |
| Tree Stratum | % Cover | Species? | Status | Number of Dominant Species That are OBL, FACW, or FAC: 0 (A) |
| 1. | | | | Total Number of Dominant |
| 2. | | | | Species Across All Strata: (B) |
| 3. | | | | Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 4 5. | | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| Total Cove | | | | Prevalence Index worksheet: |
| Sapling/Shrub Stratum 50% of Total Cover: | | of Total Cover | : 0 | Total % Cover of: Multiply by: |
| Sapinig/Sirub Stratum 30% of Total Cover. | | | | OBL Species 0 x 1 = 0 |
| 1 | | | | FACW Species 0 x 2 = 0 FAC Species 0 x 3 = 0 |
| 2. | | | | |
| 3. | | | | FACU Species 0 x 4 = 0 UPL Species 0 x 5 = 0 |
| 4 5. | | | | |
| - | _ | | - | Column Totals: 0 (A) 0 (B) |
| 7 | ^ | | | Prevalence Index = B/A = |
| 8. | | | | Hydrophytic Vegetation Indicators: |
| 9. | | | | Dominance Test is > 50% |
| 10. | | | | Prevalence Index is ≤3.0 |
| Total Cove Herb Stratum 50% of Total Cover: | | of Total Cover | r: 0 | Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 1 | 0 | | | ✓ Problematic Hydrophytic Vegetation ¹ (Explain) |
| 2. | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 3. | | | | be present, unless disturbed or problematic. |
| 4. | | | | Plot size (radius, or length x width) |
| 5 | 0 | | | % Cover of Wetland Bryophytes |
| 6 | | | | (Where applicable) |
| 7 | | | | % Bare Ground |
| 8 | | | | Total Cover of Bryophytes |
| ā | U | | | |
| 9. | | 1 1 | | |
| 10 | 0 | | | Hydrophytic |
| | r: 0 0 | of Total Cover | : 0 | Hydrophytic Vegetation Present? Yes No |

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SOIL Sampling Point: SW13_T155_04 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators) **Redox Features** Depth <u>Loc</u> 2 (inches) Color (moist) Color (moist) Type ¹ ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix Indicators for Problematic Hydric Soils: **Hydric Soil Indicators:** Histosol or Histel (A1) Alaska Color Change (TA4) ☐ Alaska Gleyed Without Hue 5Y or Redder Underlying Layer Alaska Alpine swales (TA5) Histic Epipedon (A2) Alaska Redox With 2.5Y Hue ✓ Other (Explain in Remarks) Hydrogen Sulfide (A4) Thick Dark Surface (A12) ³ One indicator of hydrophytic vegetation, one primary indicator of wetland hydrology, Alaska Gleved (A13) and an appropriate landscape position must be present Alaska Redox (A14) ⁴ Give details of color change in Remarks Alaska Gleyed Pores (A15) Restrictive Layer (if present): Yes ● No ○ Type: **Hydric Soil Present?** Depth (inches): Remarks: unvegetated pond, assume hydric soil **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (two or more are required) Primary Indicators (any one is sufficient) Water Stained Leaves (B9) ✓ Surface Water (A1) Drainage Patterns (B10) ☐ Inundation Visible on Aerial Imagery (B7) High Water Table (A2) Oxidized Rhizospheres along Living Roots (C3) Sparsely Vegetated Concave Surface (B8) Saturation (A3) Presence of Reduced Iron (C4) Marl Deposits (B15) Water Marks (B1) Salt Deposits (C5) ☐ Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Dry-Season Water Table (C2) Stunted 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) Microtopographic Relief (D4) Surface Soil Cracks (B6) FAC-neutral Test (D5) **Field Observations:** Yes ● No ○ Surface Water Present? Depth (inches): 48 Yes O No • Yes ● No ○ Water Table Present? Wetland Hydrology Present? Depth (inches): Saturation Present? Yes ○ No ● Depth (inches): (includes capillary fringe)

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

Remarks:

guess on depth. pond adjacent to small creek.