WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project | Borough/City: | Matanuska-Susitna Borough Samp | oling Date: 02-Aug-13 |
|----------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Applicant/Owner: Alaska Energy Authority | | Sampling Poi | nt: SW13_T177_07 |
| Investigator(s): BAB | Landform (hills | side, terrace, hummocks etc.): Hillsi | de |
| Local relief (concave, convex, none): convex | Slope: | % / 4.6 ° Elevation: 103 | |
| Subregion : Interior Alaska Mountains Lat.: | 63.074888801 | Long.:148.086806153 | Datum: NAD83 |
| Soil Map Unit Name: | | NWI classificatio | on: PSS1B |
| | ar? Yes ⁽ htly disturbed? problematic? | No (If no, explain in Rema Are "Normal Circumstances" prese (If needed, explain any answers in | ent? Yes $ullet$ No $igodown$ |
| SUMMARY OF FINDINGS - Attach site map showing sa | mpling point | locations, transects, important f | eatures, etc. |

| Hydrophytic Vegetation Present? Hydric Soil Present? | Yes ⊙ Yes ⊙ | No () No () | Is the Sampled Area | Yes 🖲 No 🔿 |
|---------------------------------------------------------|----------------|----------------|---------------------|------------|
| Wetland Hydrology Present? | Yes 🖲 | No 🔿 | within a Wetland? | |
| Remarks: | | | | |

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

| ٨b | | ۵her | bsolute Dominant | | Indicator | Dominance Test worksheet: | |
|----------|-----------------------------|-------------------------------------------|------------------|--------------------|-----------------|---------------------------------|-------------------------------------------------------------------------------------------------------|
| | | | over | 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: 4 (B) |
| 3. | | | | 0 | | | |
| 4. | | | | 0 | | | Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) |
| 5. | | | | 0 | | | |
| | | Total Cover | : | 0 | | | Prevalence Index worksheet: Total % Cover of: Multiply by: |
| Sap | ling/Shrub Stratum 50 | 0% of Total Cover: | 0 | 20% | of Total Cover: | 0 | OBL Species $2 \times 1 = 2$ |
| 1 | Rhododendron tomentosum | | | 10 | | FACW | FACW Species $18 \times 2 = 36$ |
| | Detulo nono | | | 25 | | FAC | FAC Species 75 x 3 = 225 |
| | | | | 20 | | FAC | FACU Species $0 \times 4 = 0$ |
| 3. 4. | | | | 5 | | FAC | UPL Species $0 \times 5 = 0$ |
| | Free attained allowing | | | 5 | | FAC | |
| | | | | 0 | | TAC | Column Totals: <u>95</u> (A) <u>263</u> (B) |
| | | | | 0 | | | Prevalence Index = B/A = 2.768 |
| | | | | 0 | | | |
| | | | | 0 | | | Hydrophytic Vegetation Indicators: |
| | | | | | | | Dominance Test is > 50% |
| 10. | | | | 0 | | | ✓ Prevalence Index is \leq 3.0 |
| Her | b Stratum 5 | Total Cover 50% of Total Cover: | | <u>65</u> _ 20% | of Total Cover: | 13 | Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 1. | Carex bigelowii | | | 20 | \checkmark | FAC | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 2. | 2. Eriophorum angustifolium | | | 2 | | OBL | 1 Indicators of hydric soil and wetland hydrology must |
| 3. | Public chamaomorus | | | 8 | \checkmark | FACW | be present, unless disturbed or problematic. |
| 4. | | | | 0 | | | |
| 5. | | | | 0 | | | Plot size (radius, or length x width) <u>10m</u> |
| | | | | 0 | | | % Cover of Wetland Bryophytes (Where applicable) |
| | | | | 0 | | | % Bare Ground |
| | | | | 0 | | | Total Cover of Bryophytes 15 |
| | | | | 0 | | | <u>15</u> |
| | | | | 0 | | | Hydrophytic |
| | | Total Cover | : | 30 | | | Vegetation |
| | 50 | 0% of Total Cover: | | | of Total Cover: | 6 | Present? Yes \bullet No \bigcirc |
| Rem | narks: | | | | | | |

| Profile Descripti Depth | | n: (Describe to the depth needed to document the indicator or confirm the absence of indicators) Matrix Redox Features | | ators) | _ | | | | |
|-----------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------|-------------|-------------------|------------------|----------------------------------------------|-------------------------------------|
| (inches) | Color (moi | st) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | Remarks |
| 0-5 | | | 100 | | | | | Fibric Organics | |
| 5-10 | | | 100 | | | | | Hemic Organics | |
| 10-15 | 7.5YR | 2.5/3 | 100 | | | | | Silt Loam | |
| | | | | | | | | ' | - |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | · | |
| | . <u> </u> | | | | | | | | |
| | | | DM-Dedue | ed Matrix ² Location | | | -Deat Cha | | |
| | | Depletion. | RM=Reduct | Indicators for Pr | | | | annei. M=Matrix | |
| Hydric Soil I | | | | Alaska Color Ch | | 4 | ·IIS: | | |
| | r Histel (A1) | | | Alaska Color Ci | | | | Alaska Gleyed Without Hu Underlying Layer | Je 5Y or Redder |
| Histic Epip | | | | Alaska Redox V | • | , | | Other (Explain in Remark | s) |
| | Sulfide (A4) < Surface (A12) | | | | | | | x p | · |
| Alaska Gle | . , | | | ³ One indicator of | hydrophyt | ic vegetation | n, one prin | mary indicator of wetland h | ydrology, |
| Alaska Red | | | | and an appropriat | e landscap | pe position m | nust be pre | esent | |
| | eyed Pores (A15 |) | | ⁴ Give details of co | olor chang | e in Remarks | 5 | | |
| Restrictive Laye | er (if present): | | | | | | | | |
| Type: sead | onal frost | | | | | | | Hydric Soil Present | ? Yes 🖲 No 🔾 |
| Depth (inch | nes): 15 | | | | | | | | |
| | | | | | | | | | |
| HYDROLO | GY | | | | | | | | |
| Wetland Hyd | | | | | | | | | cators (two or more are required) |
| | tors (any one is | sufficient) | | | | | | Water Stain | ned Leaves (B9) |
| Surface W | . , | | | Inundation V | | | | | atterns (B10) |
| High Wate | | | | Sparsely Veg | | ncave Surfac | e (B8) | | hizospheres along Living Roots (C3) |
| Saturation | | | | Marl Deposits | . , | (C1) | | | f Reduced Iron (C4) |
| Water Ma | Deposits (B2) | | | Hydrogen Su | | | | Salt Depos | Stressed Plants (D1) |
| | | | | Other (Explai | | | | _ | c Position (D2) |
| | or Crust (B4) | | | | in in Reina | 1103/ | | Shallow Aq | |
| Iron Depo | | | | | | | | _ | raphic Relief (D4) |
| Surface S | oil Cracks (B6) | | | | | | | FAC-neutra | |
| Field Observa | ations: | - | - | | | | | | |
| Surface Water | r Present? | Yes \bigcirc | No 🖲 | Depth (inche | s): | | | | |
| Water Table P | Present? | Yes 🖲 | No \bigcirc | Depth (inche | s): 10 | | Wetla | nd Hydrology Presen | t? Yes 🖲 No 🔾 |
| Saturation Pre (includes capi | | Yes 🖲 | No \bigcirc | Depth (inche | s): 5 | | | | |
| Describe Recor | ded Data (strea | im gauge, | monitor we | l, aerial photos, prev | ious inspe | ection) if ava | ilable: | | |
| D | | | | | | | | | |
| Remarks: | | | | | | | | | |
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