WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Su | usitna-Watana Hydroelectric Project | Β | orough/City: | Matanusk | ka-Susitna Borough Sampling Date: 01-Aug-13 |
|----------------------------------|--|-------------------------------------|------------------------------|-----------|---|
| Applicant/Owner: | Alaska Energy Authority | | Sampling Point: SW13_T141_06 | | |
| nvestigator(s): | BAB | e, hummocks etc.): Channel (active) | | | |
| _ocal relief (conca | ave, convex, none): concave | | Slope: | %/ 0.4 | 4 ° Elevation: 100 |
| | ior Alaska Mountains | lat. | 63.216213304 | | Long.: -148.28229066 Datum: NAD83 |
| | | Lat | 03.210213302 | +/ | |
| Soil Map Unit Nam | | | | | NWI classification: R2UBH |
| Are Vegetation Are Vegetation | , Soil , or Hydrology | significantly | y disturbed? oblematic? | (If nee | (If no, explain in Remarks.) Iormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) s, transects, important features, etc. |
| Hydrophyti | c Vegetation Present? Yes | 10 () | | | |
| | ° O | lo () | ls | the Sam | pled Area |
| Hydric Soil | | 10 () 10 () | wi | ithin a W | /etland? Yes \odot No \bigcirc |
| Remarks: narrow plot, ca | / [4 ft] channel running through aband arbig. Total veg cover <30%. | loned, drained b | | | muddy with hipvul, arclat, ranhyp carex (coll) at previous |
| EGEIATION | -Use scientific names of plants | <u>s. List all spe</u> | cies in the | plot. | · |
| | | Absolute | Dominant | Indicator | Dominance Test worksheet: |
| Tree Stratum | - | <u>% Cover</u> | Species? | Status | Number of Dominant Species That are OBL, FACW, or FAC: 0 (A) |
| | | | | | Total Number of Dominant |
| | | | | | Species Across All Strata: 0 (B) |
| | | | | | Percent of dominant Species |
| 4. | | 0 | | | That Are OBL, FACW, or FAC: 0.0% (A/B) |
| 5. | | 0 | | | Prevalence Index worksheet: |
| | Total Co | over: | | | Total % Cover of: Multiply by: |
| Sapling/Shrub | Stratum 50% of Total Cover: | 20% | of Total Cover: | : | OBL Species x 1 = |
| 1. | | 0 | | | FACW Species 0 x 2 = 0 |
| - | | | \square | | FAC Species $0 \times 3 = 0$ |
| - | | | | | FACU Species $0 \times 4 = 0$ |
| | | | | | UPL Species $0 \times 5 = 0$ |
| | | | | | |
| | | | | | Column Totals: <u>2</u> (A) <u>2</u> (B) |
| | | | | | Prevalence Index = B/A = 1.000 |
| 7 | | | | | |
| 8 | | 0 | | | Hydrophytic Vegetation Indicators: |
| | | | | | Dominance Test is > 50% |
| 10 | | 0 | | | Prevalence Index is ≤3.0 |
| Herb Stratum | | : 20% | of Total Cover | | Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) |
| 1. Hippuris v | • | | | OBL | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| | | | | | be present, unless disturbed or problematic. |
| | | | | | Plot size (radius, or length x width) <u>10m</u> |
| | | - | | | % Cover of Wetland Bryophytes |
| 6. | | - | | | (Where applicable) |
| | | | | | % Bare Ground _98 |
| 7 | | 0 | | | Total Cover of Bryophytes |
| 7 | | | | | |
| 7. 8. | | | | | |
| 7. | | 0 | | | Hydrophytic |
| 7. | | 0 0 0 0 | | | Hydrophytic Vegetation Present? Yes I No O |

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

| | n: (Describe to the depth r Matrix | leeded to docum | | onfirm the ab dox Featu | | icators) | | |
|---------------------------|--|-----------------|--|----------------------------|-------------------|---------------------|-----------------------------|-------------------------------------|
| Depth - (inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc 2 | Texture | Remarks |
| | | | | | 1925 | <u> </u> | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Conc | centration. D=Depletior | 1. RM=Reduce | ed Matrix ² Locatio | n: PL=Por | e Lining. R | C=Root Cha | annel. M=Matrix | - |
| Hydric Soil Ind | dicators: | | Indicators for Pr | roblemati | c Hvdric S | Soils: ³ | | |
| Histosol or H | | | Alaska Color C | | 4 | |] Alaska Gleyed Without H | ue 5Y or Redder |
| Histosof of T | . , | | Alaska Alpine | | | L | Underlying Layer | |
| Hydrogen S | | | Alaska Redox \ | - | - | \checkmark | Other (Explain in Remark | ട) |
| | Surface (A12) | | | | | | | |
| Alaska Gleye | . , | | ³ One indicator of and an appropriat | | | | mary indicator of wetland h | ydrology, |
| Alaska Redo | | | | | | | eseni | |
| Alaska Gleye | ed Pores (A15) | | ⁴ Give details of c | olor chang | e in Remar | ks | | |
| Restrictive Layer | (if present): | | | | | | | |
| Туре: | (", | | | | | | Hydric Soil Present | ? Yes 🖲 No 🔿 |
| Depth (inche | es): | | | | | | | • ••• |
| Remarks: | | | | | | | | |
| | oil due to flowing water | r and channel | morphology | | | | | |
| , | j | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| HYDROLOG | SY | | | | | | | |
| Wetland Hydro | ology Indicators: | | | | | | | cators (two or more are required) |
| | ors (any one is sufficier | 1t) | | | | | | ned Leaves (B9) |
| Surface Wa | . , | | Inundation V | | 5 | , , , | ✓ Drainage F | |
| High Water | | | Sparsely Veg | | ncave Surfa | ace (B8) | | hizospheres along Living Roots (C3) |
| Saturation (| . , | | Marl Deposit | . , | | | | f Reduced Iron (C4) |
| Water Mark | | | Hydrogen Su | | | | Salt Depos | |
| | Deposits (B2) | | Dry-Season | | . , | | _ | Stressed Plants (D1) |
| Drift Depos | | | Other (Expla | in in Rema | ırks) | | | ic Position (D2) |
| Iron Deposi | r Crust (B4) | | | | | | | juitard (D3) |
| | il Cracks (B6) | | | | | | FAC-neutra | praphic Relief (D4) |
| Field Observat | | | | | | | | |
| Surface Water F | | • No O | Depth (inche | -s): 12 | | | | |
| Water Table Pre | | | | | | Wetla | nd Hydrology Presen | t? Yes 🖲 No 🔾 |
| Saturation Pres | | | Depth (inche | 2 S): | | WGUL | nu nyurology riesen | |
| (includes capilla | YAC | 🔾 No 🖲 | Depth (inche | es): | | | | |
| Describe Recorde | ed Data (stream gauge | , monitor wel | l, aerial photos, pre | vious inspe | ection) if av | vailable: | | |
| | - | | • - | | - | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
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