## WETLAND DETERMINATION DATA FORM - Alaska Region

| Project/Site: Susitna-Watana Hydroelectric Project | Borough/City:                               | Matanuska-Susitna Borough  | Sampling Date: 26-Jun-12 |
|--|---|--|--------------------------|
| Applicant/Owner: Alaska Energy Authority           |   | Samplin  | g Point: SW12_T20_13     |
| Investigator(s): JGK                               | Landform (hills                             | de, terrace, hummocks etc.):   | Shoreline                |
| Local relief (concave, convex, none): flat         | Slope:                                      | % / 2.5 ° Elevation: 556   |                          |
| Subregion : Southcentral Alaska Lat.:              | 62.7248381929                               | Long.: -148.8416157  | 788 Datum: NAD83         |
| Soil Map Unit Name:                                |   | NWI classif  | fication: PEM1F          |
|  | ar? Yes (<br>tly disturbed?<br>problematic? | No (If no, explain in<br>Are "Normal Circumstances"<br>(If needed, explain any answe | present? Yes 💿 No 🔾      |
| SUMMARY OF FINDINGS - Attach site map showing sar  | mpling point l                              | ocations, transects, import  | ant features, etc.       |

| Hydrophytic Vegetation Present?<br>Hydric Soil Present?<br>Wetland Hydrology Present? | Yes ()<br>Yes ()<br>Yes () | No ()<br>No ()<br>No () | Is the Sampled Area within a Wetland? | Yes   No |  |
|---|----------------------------|-------------------------|---------------------------------------|----------|--|
| Remarks:  |                            |                         |                                       |          |  |

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

|      |                        |                       | Absolut | e Dominant         | Indicator | Dominance Test worksheet:   |
|------|------------------------|-----------------------|---------|--------------------|-----------|---|
| Tree | e Stratum              |                       | % Cove  |                    | Status    | Number of Dominant Species  |
| 1.   |                        |                       | 0       |                    |           | That are OBL, FACW, or FAC: (A)   |
| 2.   |                        |                       | 0       |                    |           | Total Number of Dominant<br>Species Across All Strata: 1 (B)                          |
| 3.   |                        |                       | 0       | _                  |           | Percent of dominant Species   |
| 4.   |                        |                       |         | _                  |           | That Are OBL, FACW, or FAC:100.0% (A/B)   |
| 5.   |                        |                       | 0       |                    |           | Prevalence Index worksheet:   |
|      |                        | Total Cover:          | 0       | _                  |           | Total % Cover of: Multiply by:  |
| Sap  | ling/Shrub Stratum     | 50% of Total Cover:   | 0 20    | % of Total Cover:  | 0         | OBL Species $65 \times 1 = 65$  |
| - 1  | Salix pulchra          |                       | 2       |                    | FACW      | FACW Species 7.2 $x 2 = 14.4$   |
| -    | · · ·                  |                       |         |                    |           | FAC Species $2 \times 3 = 6$  |
|      |                        |                       |         |                    |           | FACU Species $0 \times 4 = 0$   |
|      |                        |                       |         | -                  |           | UPL Species $0 \times 5 = 0$  |
| -    |                        |                       | •       | -                  |           |   |
|      |                        |                       |         | -                  |           | Column Totals: <u>74.2</u> (A) <u>85.4</u> (B)  |
|      |                        |                       |         | -                  |           | Prevalence Index = $B/A = 1.151$  |
|      |                        |                       |         | -                  |           | Hydrophytic Vegetation Indicators:  |
|      |                        |                       |         | -                  |           | ✓ Dominance Test is > 50%   |
|      |                        |                       | 0       |                    |           | <ul> <li>✓ Prevalence Index is ≤3.0</li> </ul>  |
|      |                        | Total Cover:          | 2       | _                  |           | <ul> <li>Morphological Adaptations<sup>1</sup> (Provide supporting data in</li> </ul> |
| Her  | <u>b Stratum</u>       | 50% of Total Cover:   |         | )% of Total Cover: | 0.4       | Remarks or on a separate sheet)   |
| 1.   | Carex aquatilis        |                       | 40      | $\checkmark$       | OBL       | Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)                             |
| 2.   |                        |                       |         |                    | OBL       | <sup>1</sup> Indicators of hydric soil and wetland hydrology must                     |
| 3.   |                        |                       |         |                    | OBL       | be present, unless disturbed or problematic.  |
| 4.   | Carox canoscops        |                       | 5       |                    | FACW      | Plot size (radius, or length x width) 10m   |
| 5.   | Carex marina           |                       | 5       |                    | OBL       | Plot size (radius, or length x width) <u>10m</u><br>% Cover of Wetland Bryophytes     |
| 6.   | Polemonium acutiflorum |                       | 2       |                    | FAC       | (Where applicable)  |
| 7.   | Viola palustris        |                       | 0.1     |                    | FACW      | % Bare Ground   |
| 8.   | Galium trifidum        |                       | 0.1     | _                  | FACW      | Total Cover of Bryophytes   |
| 9.   |                        |                       | 0       | _                  |           |   |
| 10.  |                        |                       | 0       | _                  |           | Hydrophytic   |
|      |                        | Total Cover:          | 72.2    | _                  |           | Vegetation  |
|      |                        | 50% of Total Cover: 3 |         |                    | 14.44     | Present? Yes  No  |
|      |                        |                       |         |                    |           |   |

Remarks: 10% open water. No shrub dominants, as shrub stratum has <5% total cover.

| Profile Description: (Describe to Depth   | Matrix        |                         | Re  | dox Features   |                               | _  |   |
|---|---------------|-------------------------|---|--|-------------------------------|--|---|
| (inches) Color (me  | ist)          | %                       | Color (moist)   | % Type <sup>1</sup>  | 2                             | Texture  | Remarks   |
| ,   |               |                         |   |  |                               |  |   |
|   |               |                         |   |  |                               | - <u>-</u>   |   |
|   |               |                         |   |  |                               |  |   |
|   |               |                         |   |  |                               | ·  |   |
|   |               |                         |   |  |                               |  |   |
|   |               |                         |   |  |                               |  |   |
| ·   |               |                         |   |  |                               |  |   |
|   |               |                         |   |  |                               |  |   |
| 1   |               |                         | 21  |  |                               |  |   |
| <sup>1</sup> Type: C=Concentration. D   | -Depletion. H | ₹M=Reduce               |   | _  |                               | annel. M=Matrix  |   |
| Hydric Soil Indicators:   |               |                         |   | roblematic Hydric S  | oils: <sup>3</sup>            | _  |   |
| Histosol or Histel (A1)   |               |                         | Alaska Color Cl   | ,  | L                             | Alaska Gleyed Without H  | ue 5Y or Redder   |
| Histic Epipedon (A2)  |               |                         | Alaska Alpine s   |  |                               | Underlying Layer   |   |
| Hydrogen Sulfide (A4)   |               |                         | Alaska Redox V  | With 2.5Y Hue  | $\checkmark$                  | Other (Explain in Remar  | <s)< td=""></s)<>   |
| Thick Dark Surface (A12   | )             |                         | <sup>3</sup> One indicator of   | f hvdrophytic vegetati   | on, one prir                  | mary indicator of wetland h  | vdroloav,   |
| Alaska Gleyed (A13)   |               |                         |   | te landscape position  |                               |  | i i i i i i i i i i i i i i i i i i i   |
| Alaska Redox (A14)  | - 1           |                         | <sup>4</sup> Give details of o  | olor change in Remar   | ks                            |  |   |
| Alaska Gleyed Pores (A1   | -             |                         |   | J. J.  |                               |  |   |
| Destriction I see (if success)  |               |                         |   |  |                               |  |   |
| Restrictive Layer (if present):   |               |                         |   |  |                               |  |   |
| Туре:   |               |                         |   |  |                               | Hydric Soil Present  | ? Yes 🖲 No 🔾  |
| Type:<br>Depth (inches):  |               |                         |   |  |                               | Hydric Soil Present  | ? Yes • No 🔾  |
| Type:<br>Depth (inches):<br>Remarks:  |               |                         |   |  |                               |  | ? Yes ⊙ No ()   |
| Type:<br>Depth (inches):  |               | hydric soils            | ; due to hydrophytic  | : vegetation and wetla   | Ind hydrolog                  |  | ? Yes ♥ No ∪  |
| Type:<br>Depth (inches):<br>Remarks:  |               | hydric soils            | due to hydrophytic  | : vegetation and wetla   | ind hydrolog                  |  | ? Yes ♥ No ∪  |
| Type:<br>Depth (inches):<br>Remarks:  |               | hydric soils            | due to hydrophytic  | : vegetation and wetla   | ind hydrolo                   |  | ? Yes ⊙ No ()   |
| Type:<br>Depth (inches):<br>Remarks:  |               | hydric soils            | s due to hydrophytic  | : vegetation and wetla   | and hydrolo                   |  | ? Yes ♥ No ∪  |
| Type:<br>Depth (inches):<br>Remarks:<br>no soil pit due to standing wa  | ter. assume   | hydric soils            | s due to hydrophytic  | ; vegetation and wetla   | and hydrolo                   | gy   |   |
| Type:<br>Depth (inches):<br>Remarks:<br>no soil pit due to standing wa  | ter. assume   | hydric soils            | G due to hydrophytic  | : vegetation and wetla   | and hydrolo                   | gy<br>Secondary Indi   | cators (two or more are required)   |
| Type:<br>Depth (inches):<br>Remarks:<br>no soil pit due to standing wa<br>HYDROLOGY<br>Wetland Hydrology Indica<br>Primary Indicators (any one  | ter. assume   | hydric soils            |   |  |                               | gySecondary Indi Water Stai  | cators (two or more are required)<br>ned Leaves (B9)  |
| Type:<br>Depth (inches):<br>Remarks:<br>no soil pit due to standing wa<br>HYDROLOGY<br>Wetland Hydrology Indica<br>Primary Indicators (any one<br>Surface Water (A1)  | ter. assume   | hydric soils            | Inundation V  | /isible on Aerial Image  | ery (B7)                      | gySecondary Indi Water Stai Drainage f   | cators (two or more are required)<br>ned Leaves (B9)<br>Patterns (B10)  |
| Type:<br>Depth (inches):<br>Remarks:<br>no soil pit due to standing wat<br>HYDROLOGY<br>Wetland Hydrology Indica<br>Primary Indicators (any one<br>✓ Surface Water (A1)<br>High Water Table (A2)  | ter. assume   | hydric soils            | Inundation V Sparsely Veg   | /isible on Aerial Image  | ery (B7)                      | gySecondary IndiWater StaiDrainage IOxidized R   | cators (two or more are required)<br>ned Leaves (B9)<br>Patterns (B10)<br>hizospheres along Living Roots (C3)   |
| Type:<br>Depth (inches):<br>Remarks:<br>no soil pit due to standing wat<br>HYDROLOGY<br>Wetland Hydrology Indica<br>Primary Indicators (any one<br>✓ Surface Water (A1)<br>High Water Table (A2)<br>Saturation (A3)   | ter. assume   | hydric soils            | Inundation V Sparsely Veg Marl Deposite   | /isible on Aerial Image<br>getated Concave Surfa<br>(s (B15)   | ery (B7)                      | gySecondary IndiWater StaiDrainage IOxidized RPresence o   | cators (two or more are required)<br>ned Leaves (B9)<br>Patterns (B10)<br>.hizospheres along Living Roots (C3)<br>of Reduced Iron (C4)  |
| Type:<br>Depth (inches):<br>Remarks:<br>no soil pit due to standing wat<br>HYDROLOGY<br>Wetland Hydrology Indica<br>Primary Indicators (any one<br>Surface Water (A1)<br>High Water Table (A2)<br>Saturation (A3)<br>Water Marks (B1)   | ter. assume   | hydric soils            | Inundation V Sparsely Veg Marl Deposit: Hydrogen Su   | /isible on Aerial Image<br>getated Concave Surfa<br>(s (B15)<br>Ilfide Odor (C1)   | ery (B7)                      | gySecondary IndiWater StaiDrainage IOxidized RPresence oSalt Depos   | cators (two or more are required)<br>ned Leaves (B9)<br>Patterns (B10)<br>.hizospheres along Living Roots (C3)<br>of Reduced Iron (C4)  |
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