

# Haines Highway Mitigation Monitoring

## Data Form

### Routine Wetland Determination

(1987 COE Wetlands Delineation Manual)

Project/Site: <u>WT-1</u> Applicant/Owner: _____ Investigator: <u>R Bosworth</u>	Date: <u>8/27/03</u> County: <u>Haines</u> State: <u>AK</u>
Do Normal Circumstances exist on the site?      yes <input type="radio"/> no <input checked="" type="radio"/> Is the Site significantly disturbed (Atypical Situation)?      yes <input checked="" type="radio"/> no <input type="radio"/> Is the area a potential Problem Area?      yes <input type="radio"/> no <input type="radio"/> If needed, explain on reverse)	Community ID: _____ <span style="float: right;">east 1/3 - 36</span> Transect ID: _____ <span style="float: right;">of WT-1</span> Plot ID: _____

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Trifolium hybridum</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Populus balsam</u>	<u>T</u>	<u>FACU</u>	10. _____	_____	_____
3. <u>Festuca rubra</u>	<u>H</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Alopecurus sp.</u>	<u>H</u>	<u>FACW</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-).      75%

Remarks: \_\_\_\_\_

#### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required) ___ Oxidized Root Channels in Upper 12 In. ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain In Remarks)
Field Observations:  Depth of Surface Water: _____ (in.) Depth of Free Water in Pit: <u>&gt; 13</u> (in.) Depth to Saturated Soil: <u>&gt; 13</u> (in.)	
Remarks: _____	

Haines Highway Mitigation Monitoring  
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WT-1 east 2/3-  
 #2 3/4

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
6		well-drained	brown		sandy-silt
6-10.5		gleyed	grey		sand
↓		gleyed	grey		gravelly-sand
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> Organic Streaking in Sandy Soils		<input type="checkbox"/> Listed on Local Hydric Soils List	
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Listed on National Hydric Soils List		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Reducing Conditions		<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	
Remarks					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes (No)	No (Circle)			(Circle)
Wetland Hydrology Present?	Yes (No)	No (Circle)			
Hydric Soils Present?	Yes (No)	No (Circle)	Is This Sampling Point Within a Wetland?	Yes (No)	No (Circle)
Remarks:					

# Haines Highway Mitigation Monitoring

## Data Form

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(1987 COE Wetlands Delineation Manual)

Project/Site: <u>WT-1</u> Applicant/Owner: _____ Investigator: <u>R. Esquivel</u>	Date: <u>8/27/03</u> County: <u>Haines</u> State: <u>AK</u>
Do Normal Circumstances exist on the site?      yes <input type="radio"/> <b>no</b> <input checked="" type="radio"/> Is the Site significantly disturbed (Atypical Situation)? <b>yes</b> <input checked="" type="radio"/> no <input type="radio"/> Is the area a potential Problem Area?      yes <input type="radio"/> no <input type="radio"/> If needed, explain on reverse)	Community ID: _____ Transect ID: _____ Plot ID: _____

W. 1/4 + 1/8  
of  
WT-1

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>ALDROPHSUS SP</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Festuca rubra</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>SOLIX SPS</u>	<u>S</u>	<u>FAC</u>	11. _____	_____	_____
4. <u>Trifolium hybridum</u>	<u>H</u>	<u>FACU</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-). 75%

Remarks: \_\_\_\_\_

#### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required) ___ Oxidized Root Channels in Upper 12 In. ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain In Remarks)
Field Observations:  Depth of Surface Water: _____ (in.) Depth of Free Water in Pit: <u>&gt; 13</u> (in.) Depth to Saturated Soil: <u>&gt; 13</u> (in.)	
Remarks: _____	

# Haines Highway Mitigation Monitoring

Data Form

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WT-1 west  $\frac{1}{4}$  -  $\frac{1}{3}$   
# 2

**SOILS**

Map Unit Name (Series and Phase): _____		Drainage Class: _____	
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No	
<b>Profile Description:</b>			
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)
5		well-drained - Brown	silty sand
↓		well-drained - Brown	mixed cobbles, gravel, sand
<b>Hydric Soil Indicators:</b>			
<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils	
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> Organic Streaking in Sandy Soils	<input type="checkbox"/> Listed on Local Hydric Soils List	
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Listed on National Hydric Soils List	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Aquic Moisture Regime			
<input type="checkbox"/> Reducing Conditions			
<input type="checkbox"/> Gleyed or Low-Chroma Colors			
Remarks			

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present?	Yes <input checked="" type="radio"/> No	
Hydric Soils Present?	Yes <input checked="" type="radio"/> No	Is This Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No
Remarks:		

# Haines Highway Mitigation Monitoring

## Data Form

### Routine Wetland Determination

(1987 COE Wetlands Delineation Manual)

Project/Site: <u>WT-1</u> Applicant/Owner: _____ Investigator: <u>K. Besworth</u>	Date: <u>8-27-03</u> County: <u>Haines</u> State: <u>AK</u>
Do Normal Circumstances exist on the site?      yes <input type="radio"/> no <input type="radio"/> Is the Site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> yes <input type="radio"/> no Is the area a potential Problem Area?      yes <input type="radio"/> no <input type="radio"/> If needed, explain on reverse)	Community ID: <u>West end of WT-1</u> Transect ID: _____ Plot ID: _____

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Berkmaniasyz</u>	<u>H</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>Spartanium ang</u>	<u>H</u>	<u>OBL</u>	10. _____	_____	_____
3. <u>Spartanium hyp</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Equisetum fluo</u>	<u>H</u>	<u>OBL</u>	12. _____	_____	_____
5. <u>Sclirpus micro</u>	<u>H</u>	<u>OBL</u>	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-): 100%

Remarks:

#### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other ___ No Recorded Data Available	<b>Wetland Hydrology Indicators:</b> <b>Primary Indicators:</b> ___ Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands <b>Secondary Indicators (2 or more required)</b> ___ Oxidized Root Channels in Upper 12 In. ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain In Remarks)
Field Observations:  Depth of Surface Water: _____ (in.) Depth of Free Water in Pit: <u>714</u> (in.) Depth to Saturated Soil: <u>1-2</u> (in.)	
Remarks: <u>Perched water present -</u>	

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WT-1 west end

#2

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1					organic silty-muck
6		grey		gleyed	silty-sand w/ cobbles glauk + sand
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input checked="" type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks: This <sup>newly</sup> placed wetland soil over river alluvium.					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Remarks: This is a small (5%) part of WT-1 - The west end.		

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Do Normal Circumstances exist on the site?      yes <input type="radio"/> no <input checked="" type="radio"/> Is the Site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> yes    no Is the area a potential Problem Area?      yes    no If needed, explain on reverse)	Community ID: _____ Transect ID: _____ Plot ID: _____ <div style="text-align: right; margin-top: 10px;">                     E 5-10%                      of WT-1                 </div>

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Alpecurus sp</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Scirpus micro</u>	<u>H</u>	<u>OBI</u>	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-).      100%

Remarks: \_\_\_\_\_

#### HYDROLOGY

Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required) <input type="checkbox"/> Oxidized Root Channels in Upper 12 In. <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks)
Field Observations:  Depth of Surface Water: <u>0-1</u> (in.) Depth of Free Water in Pit: <u>11.5-0</u> (in.) Depth to Saturated Soil:      _____ (in.)	Remarks: <u>Berm edge drier than pond edge.</u>

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WT-1 east 5-60%

#2

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
↓					mixed cobbles gravel + sand
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	No (Circle)	(Circle)
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	No	
Hydric Soils Present?	Yes	<input checked="" type="radio"/> No	Is This Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes No
Remarks:			





Haines Highway Mitigation Monitoring  
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(1987 COE Wetlands Delineation Manual)

Project/Site: <u>WT-3</u> Applicant/Owner: _____ Investigator: <u>R Bosworth</u>	Date: <u>7/27/03</u> County: <u>Haines</u> State: <u>AK</u>
Do Normal Circumstances exist on the site?      yes    no Is the Site significantly disturbed (Atypical Situation)?    yes    no Is the area a potential Problem Area?                    yes    no (If needed, explain on reverse)	Community ID: _____ <u>Wet area between</u> Transect ID: _____ <u>CH-9 &amp; CH-10</u> Plot ID: _____

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Festuca rubra</u>	<u>H</u>	<u>FACW</u>	9. _____	_____	_____
2. <u>Festuca rubra</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Sagittaria arifolia</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-). 100%

Remarks:

**HYDROLOGY**

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available	<b>Wetland Hydrology Indicators:</b> <b>Primary Indicators:</b> <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators (2 or more required)</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12 In. <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain In Remarks)
<b>Field Observations:</b> Depth of Surface Water: <u>0-8</u> (in.) Depth of Free Water in Pit: <u>0-7</u> (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Remarks:	

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WT-3 wet area between

CH9-CH10

#2

SOILS

Map Unit Name (Series and Phase): \_\_\_\_\_ Drainage Class: \_\_\_\_\_  
 Field Observations  
 Taxonomy (Subgroup): \_\_\_\_\_ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
1.5		black-gray			Organic muck
↓		gray	grayed		silt

Hydric Soil Indicators:

- |   |   |
|---|---|
| <input type="checkbox"/> Histosol                               | <input type="checkbox"/> Concretions  |
| <input type="checkbox"/> Histic Epipedon                        | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor                          | <input type="checkbox"/> Organic Streaking in Sandy Soils                     |
| <input type="checkbox"/> Aquic Moisture Regime                  | <input type="checkbox"/> Listed on Local Hydric Soils List                    |
| <input type="checkbox"/> Reducing Conditions                    | <input type="checkbox"/> Listed on National Hydric Soils List                 |
| <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks)                           |

Remarks

WETLAND DETERMINATION

Hydrophytic Vegetation Present?  Yes No (Circle) (Circle)  
 Wetland Hydrology Present?  Yes No  
 Hydric Soils Present?  Yes No Is This Sampling Point Within a Wetland?  Yes No

Remarks:

# Haines Highway Mitigation Monitoring

## Data Form

### Routine Wetland Determination

(1987 COE Wetlands Delineation Manual)

Project/Site: <u>WT-5A</u> Applicant/Owner: _____ Investigator: <u>R. Bosworth</u>	Date: <u>8/28/03</u> County: <u>Haines</u> State: <u>AK</u>
Do Normal Circumstances exist on the site? <span style="float: right;"><input type="radio"/> yes <input checked="" type="radio"/> no</span> Is the Site significantly disturbed (Atypical Situation)? <span style="float: right;"><input checked="" type="radio"/> yes <input type="radio"/> no</span> Is the area a potential Problem Area? <span style="float: right;"><input type="radio"/> yes <input type="radio"/> no</span> If needed, explain on reverse)	Community ID: _____ Transect ID: _____ <u>E end -</u> Plot ID: _____ <u>WT-5A</u>

(1/3)

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Festuca rubra</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Deschampsia bca</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Scirpus microp</u>	<u>H</u>	<u>OBL</u>	11. _____	_____	_____
4. <u>Alnus sinuata</u>	<u>S</u>	<u>FAC</u>	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-). 100%

Remarks:

#### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland Hydrology Indicators:</b> <b>Primary Indicators:</b> ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands <b>Secondary Indicators (2 or more required)</b> ___ Oxidized Root Channels in Upper 12 In. ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain In Remarks)
Field Observations:  Depth of Surface Water: _____ (in.) Depth of Free Water in Pit: <u>14.5</u> (in.) Depth to Saturated Soil: _____ (in.)	
Remarks:	

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WT5A east end 1/3

#2

SOILS

Map Unit Name (Series and Phase): \_\_\_\_\_ Drainage Class: \_\_\_\_\_  
 Field Observations \_\_\_\_\_  
 Taxonomy (Subgroup): \_\_\_\_\_ Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
6		Brown	well-drained		fine sand
9		Brown	well-drained		sand
↓			"		sand, gravel & cobbles

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Aquic Moisture Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (Explain in Remarks)

Remarks

WETLAND DETERMINATION

Hydrophytic Vegetation Present?  Yes  No (Circle) (Circle)  
 Wetland Hydrology Present? Yes  No   
 Hydric Soils Present? Yes  No  Is This Sampling Point Within a Wetland? Yes  No

Remarks:

# Haines Highway Mitigation Monitoring

## Data Form

### Routine Wetland Determination

(1987 COE Wetlands Delineation Manual)

Project/Site: <u>WT-5A</u> Applicant/Owner: _____ Investigator: <u>K. Bosler</u>	Date: <u>8/28/03</u> County: _____ State: <u>AK</u>
Do Normal Circumstances exist on the site? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no Is the Site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no Is the area a potential Problem Area? <input type="checkbox"/> yes <input type="checkbox"/> no (If needed, explain on reverse)	Community ID: _____ Transect ID: _____ Plot ID: _____

w. end (2/3)  
of  
WT-5A

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Decid. Quercus</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Juniperus</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Salix</u>	<u>L</u>	<u>OBL</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-).      100%

Remarks: \_\_\_\_\_

#### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland Hydrology Indicators:</b> <b>Primary Indicators:</b> ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators (2 or more required)</b> ___ Oxidized Root Channels in Upper 12 In. ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain In Remarks)
Field Observations:  Depth of Surface Water: _____ (in.) Depth of Free Water in Pit: <u>3.0</u> (in.) Depth to Saturated Soil: _____ (in.)	Remarks: _____

Haines Highway Mitigation Monitoring  
 Data Form  
 Routine Wetland Determination  
 (1987 COE Wetlands Delineation Manual)

WT-5A west end 2/3

#2

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
6	gross roots in		med well drained		silt
↓	yard				silt
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Is This Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Remarks:			

# Haines Highway Mitigation Monitoring

## Data Form

### Routine Wetland Determination

(1987 COE Wetlands Delineation Manual)

Project/Site: <u>WT-08</u> Applicant/Owner: _____ Investigator: <u>R. Roseworth</u>	Date: <u>2/27/03</u> County: <u>Haines</u> State: <u>AK</u>
Do Normal Circumstances exist on the site?      yes <input checked="" type="radio"/> no Is the Site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> yes <input type="radio"/> no Is the area a potential Problem Area?                            yes <input type="radio"/> no If needed, explain on reverse)	Community ID: _____ east 1/3 Transect ID: _____ Plot ID: _____ of WT-5B

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Loiseleuria procumbens</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Loiseleuria procumbens</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Alnus sinuata</u>	<u>S</u>	<u>FAC</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-).      100% FAC

Remarks:

#### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland Hydrology Indicators:</b> <b>Primary Indicators:</b> ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands <b>Secondary Indicators (2 or more required)</b> ___ Oxidized Root Channels in Upper 12 In. ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain In Remarks)
<b>Field Observations:</b>  Depth of Surface Water: _____ (in.) Depth of Free Water in Pit: <u>215</u> (in.) Depth to Saturated Soil: _____ (in.)	
Remarks:	

Haines Highway Mitigation Monitoring  
 Data Form  
 Routine Wetland Determination  
 (1987 COE Wetlands Delineation Manual)

WT-5B cost 1/3

#2

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
		light tan	2 - brown		silt + sand
		"	brown		silt + sand w/ cobbles
✓		"			sand, cobbles + gravel
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present?	Yes <input checked="" type="radio"/> No	
Hydric Soils Present?	Yes <input checked="" type="radio"/> No	Is This Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No
Remarks:		



Haines Highway Mitigation Monitoring  
 Data Form  
 Routine Wetland Determination  
 (1987 COE Wetlands Delineation Manual)

WT-5B west 2/3

#2

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
6		brown/grey		mottled	silty sand
↓		grey			silty sand w cobble
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input checked="" type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	(Circle)	
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		Is This Sampling Point Within a Wetland?
				<input checked="" type="radio"/> Yes <input type="radio"/> No
Remarks: _____				

# Haines Highway Mitigation Monitoring

## Data Form

### Routine Wetland Determination

(1987 COE Wetlands Delineation Manual)

Project/Site: <u>WT-5C</u> Applicant/Owner: _____ Investigator: <u>R. Bosworth</u>	Date: <u>8/28/03</u> County: _____ State: <u>AK</u>
Do Normal Circumstances exist on the site?      yes <input checked="" type="radio"/> no Is the Site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> yes    no Is the area a potential Problem Area?                            yes    no If needed, explain on reverse)	Community ID: _____ <u>east 1/2</u> Transect ID: _____ Plot ID: _____ <u>of WT-5C</u>

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Festuca rubra</u>	<u>4</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Deschampsia flexuosa</u>	<u>4</u>	<u>FAC</u>	10. _____	_____	_____
3. <u>Caespitulosus arvensis</u>	<u>4</u>	<u>FACW</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-): 66% (Using FAC nodal zone to Est 0)

Remarks: \_\_\_\_\_

#### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required) ___ Oxidized Root Channels in Upper 12 In. ___ Water-Stained Leaves ___ Local Soil Survey Data <input checked="" type="checkbox"/> FAC-Neutral Test ___ Other (Explain In Remarks)
Field Observations:  Depth of Surface Water: _____ (in.) Depth of Free Water in Pit: <u>7.5</u> (in.) Depth to Saturated Soil: _____ (in.)	Remarks: _____

Haines Highway Mitigation Monitoring  
 Data Form  
 Routine Wetland Determination  
 (1987 COE Wetlands Delineation Manual)

WT-5C east 1/2

#2

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
5	w/ gravel roots		Brown - well	drained	sandy silt
7			"	"	sand
↓			"	"	sand w/ cobble
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> (Circle)	(Circle)
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Hydric Soils Present?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is This Sampling Point Within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:		

Haines Highway Mitigation Monitoring  
Data Form  
Routine Wetland Determination  
(1987 COE Wetlands Delineation Manual)

Project/Site: <u>WT-SC</u> Applicant/Owner: _____ Investigator: <u>R. Brown</u>	Date: <u>2/20/03</u> County: _____ State: <u>AK</u>
Do Normal Circumstances exist on the site?      yes    no Is the Site significantly disturbed (Atypical Situation)? <u>yes</u> no Is the area a potential Problem Area?                    yes    no If needed, explain on reverse)	Community ID: _____ Transect ID: _____ Plot ID: _____

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Salix glauca</u>	<u>H</u>	<u>FAC</u>	9. _____	_____	_____
2. <u>Deschampsia flexuosa</u>	<u>H</u>	<u>FAC</u>	10. _____	_____	_____
3. _____	_____	_____	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. _____	_____	_____	13. _____	_____	_____
6. _____	_____	_____	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-): 100% FAC

Remarks: \_\_\_\_\_

HYDROLOGY

<input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake or Tide Gauge <input type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other <input checked="" type="checkbox"/> No Recorded Data Available	<b>Wetland Hydrology Indicators:</b> <b>Primary Indicators:</b> <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands <b>Secondary Indicators (2 or more required)</b> <input type="checkbox"/> Oxidized Root Channels in Upper 12 In. <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain In Remarks)
Field Observations: Depth of Surface Water: <u>3-0</u> (in.) Depth of Free Water in Pit: <u>0-2</u> (in.) Depth to Saturated Soil: _____ (in.)	Remarks: _____

Haines Highway Mitigation Monitoring  
 Data Form  
 Routine Wetland Determination  
 (1987 COE Wetlands Delineation Manual)

WT-5C West 1/2

#2

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
<b>Profile Description:</b>					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
15			oxidized root channels		fine sand
↓		brown/grey		mottled	fine sand
<b>Hydric Soil Indicators:</b>					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Hydric Soils Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Is This Sampling Point Within a Wetland? <input type="radio"/> Yes <input type="radio"/> No
Remarks:			

# Haines Highway Mitigation Monitoring

## Data Form

### Routine Wetland Determination

(1987 COE Wetlands Delineation Manual)

Project/Site: _____ Applicant/Owner: _____ Investigator: _____	Date: _____ County: _____ State: _____
Do Normal Circumstances exist on the site? <input type="radio"/> yes <input checked="" type="radio"/> no Is the Site significantly disturbed (Atypical Situation)? <input checked="" type="radio"/> yes <input type="radio"/> no Is the area a potential Problem Area? <input type="radio"/> yes <input type="radio"/> no If needed, explain on reverse)	Community ID: _____ Transect ID: _____ Plot ID: _____

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Justicia sp.</u>		<u>FAC</u>	9. _____		
2. <u>Veronica sp.</u>		<u>FAC</u>	10. _____		
3. _____			11. _____		
4. _____			12. _____		
5. _____			13. _____		
6. _____			14. _____		
7. _____			15. _____		
8. _____			16. _____		

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-).      100%    FAC

Remarks:

#### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other ✓ No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated <input checked="" type="checkbox"/> Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required) ___ Oxidized Root Channels in Upper 12 In. ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain in Remarks)
Field Observations:  Depth of Surface Water: <u>4-0</u> (in.) Depth of Free Water in Pit: <u>0-7.5</u> (in.) Depth to Saturated Soil:      _____ (in.)	
Remarks: <u>water table was fairly over most of the</u> <u>haines except the relatively dry east 1/4.</u>	

Haines Highway Mitigation Monitoring  
 Data Form  
 Routine Wetland Determination  
 (1987 COE Wetlands Delineation Manual)

WT-5D

#2

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
3	firm	Grey			sandy silt
↓	quicksand like	Grey			sand w/ gravel
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks: This soil has very stratigraphic layers in many areas with pebbles in the surface and quicksand like under a few feet					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? <input checked="" type="radio"/> Yes <input type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	
Hydric Soils Present? <input checked="" type="radio"/> Yes <input type="radio"/> No	Is This Sampling Point Within a Wetland? <input checked="" type="radio"/> Yes <input type="radio"/> No
Remarks:	

# Haines Highway Mitigation Monitoring

## Data Form

### Routine Wetland Determination

(1987 COE Wetlands Delineation Manual)

Project/Site: <u>UIT 6</u> Applicant/Owner: _____ Investigator: <u>K. Basim</u>	Date: <u>2/20/02</u> County: _____ State: <u>AK</u>
Do Normal Circumstances exist on the site? <span style="margin-left: 20px;"><input checked="" type="checkbox"/> yes</span> <span style="margin-left: 20px;"><input type="checkbox"/> no</span> Is the Site significantly disturbed (Atypical Situation)? <span style="margin-left: 20px;"><input checked="" type="checkbox"/> yes</span> <span style="margin-left: 20px;"><input type="checkbox"/> no</span> Is the area a potential Problem Area? <span style="margin-left: 20px;"><input checked="" type="checkbox"/> yes</span> <span style="margin-left: 20px;"><input type="checkbox"/> no</span> If needed, explain on reverse)	Community ID: _____ Transect ID: _____ Plot ID: _____

#### VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Feathergrass</u>		<u>FAC</u>	9. _____		
2. <u>Grass</u>		<u>FAC</u>	10. _____		
3. _____			11. _____		
4. _____			12. _____		
5. _____			13. _____		
6. _____			14. _____		
7. _____			15. _____		
8. _____			16. _____		

Percent of Dominant Species that are OBL, FACW, FAC (excluding FAC-): 100% FAC

Remarks:

#### HYDROLOGY

___ Recorded Data (Describe in Remarks): ___ Stream, Lake or Tide Gauge ___ Aerial Photographs ___ Other <input checked="" type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: ___ Inundated ___ Saturated in Upper 12 Inches ___ Water Marks ___ Drift Lines ___ Sediment Deposits ___ Drainage Patterns in Wetlands Secondary Indicators (2 or more required) ___ Oxidized Root Channels in Upper 12 In. ___ Water-Stained Leaves ___ Local Soil Survey Data ___ FAC-Neutral Test ___ Other (Explain In Remarks)
Field Observations:  Depth of Surface Water: _____ (in.) Depth of Free Water in Pit: <u>75</u> (in.) Depth to Saturated Soil: _____ (in.)	
Remarks:	

Haines Highway Mitigation Monitoring  
 Data Form  
 Routine Wetland Determination  
 (1987 COE Wetlands Delineation Manual)

WT-6  
 #2

SOILS

Map Unit Name (Series and Phase): _____		Drainage Class: _____			
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
6		Brown	hik organic	well drained	w/ s. of rock
↓		↓	same	but w/ less organic	
Hydric Soil Indicators:					
<input type="checkbox"/> Histosol		<input type="checkbox"/> Concretions			
<input type="checkbox"/> Histic Epipedon		<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils			
<input type="checkbox"/> Sulfidic Odor		<input type="checkbox"/> Organic Streaking in Sandy Soils			
<input type="checkbox"/> Aquic Moisture Regime		<input type="checkbox"/> Listed on Local Hydric Soils List			
<input type="checkbox"/> Reducing Conditions		<input type="checkbox"/> Listed on National Hydric Soils List			
<input type="checkbox"/> Gleyed or Low-Chroma Colors		<input type="checkbox"/> Other (Explain in Remarks)			
Remarks					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/> No (Circle)	(Circle)
Wetland Hydrology Present?	Yes <input checked="" type="radio"/> No	
Hydric Soils Present?	Yes <input checked="" type="radio"/> No	Is This Sampling Point Within a Wetland? Yes <input checked="" type="radio"/> No
Remarks:		