



**APPENDIX A**  
**COE Field Data Sheets**



**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> Avenue Interchange Project  
**Applicant/Owner:** FZS/SHURE HOLDING + DEVELOPMENT CO.  
**Investigator:** WYOMING RESOURCE SERVICES, INC. / SCS

**Date:** 9/21/05  
**County:** STEFFERSON  
**State:** COLORADO

**Community ID:** 09M  
**Transsect ID:** A  
**Plot ID:** A-1a

**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.)*

*Chiffon area from 6" drainage pipes from road.*

**VEGETATION**

Dominant Plant Species	% Cover	Stratum	Indicator
1. <i>Sarcocolla sp.</i>	H 8%	NI	
2. <i>Trientalis squarrosa</i>	H 5%	FAC	
3. <i>Ambrosia artemisiifolia</i>	H 5%	FAC	
4. <i>Aster fructuosus</i>	H 5%	FAC	
5. <i>Cornus intermis</i>	H 1%	NI	
6. <i>Melilotus sp.</i>	H 1%	FAC	
7. _____			
8. _____			

Percent of Dominant Species that are OBL, FACW or FAC (including FACI): 1/6 16.7%

**Remarks:** No midstory or overstory.

**SOILS**

**Map Unit Name:** I-70/32<sup>nd</sup> Plot A-1a  
**(State and Phase):** Terrifluvents, very gravelly, 0-38"  
**Field Observations:** Excessively drained, Confirm Map Unit Type  No

**Taxonomy (Subgroup):** Mollisic, Ustic, Terrifluvents

Profile Description	Matrix Color (Munsell Moist)	Mottle Color (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structures, etc.
0-1" A	10 YR 5/1	10 YR 7/8	Common/obscure	Sandy loam
1-72" B	10 YR 6/1	10 YR 6/8	Common/obscure	Sandy loam

**Hydric Soil Indicators:**

- Histosol
- Histic Epipedon
- Sulfidic Odor
- Aquic Molar Regime
- Chroma Contrast
- Gleyed or Low-Chroma Colors

**Concretions:**

- High Organic Content in Surface Layer in Sandy Soils
- Organic Streaming in Sandy Soils
- Listed on National Hydric Soils List
- Other (Explain in Remarks)

**Remarks:** Isolated wetland area. Buffer from road drainage pipe.

**HYDROLOGY**

**Recorded Data (Describe in Remarks):**  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other *NWLI MAP*  
 No Recorded Data Available

**Field Observations:**

Depth of Surface Water: 0 (in.)  
 Depth to Free Water in PIC: 712 (in.)  
 Depth to Saturated Soil: 712 (in.)

**Remarks:** Top of soil dried + cracked. Outflow area from 6" drainage pipe from road. No flow into waters of as. Steps into ground.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Yes  No   
 Wetland Hydrology Present? Yes  No   
 Hydric Soils Present? Yes  No

Is this Sampling Point Within a Wetland? Yes  No  (Circle)

**FUNCTIONS:** 6D-M, 1M, 1R-L, 5B-L, 5R-M, 4-L, 1-M, 1A-L, 1H-L, 7E-L

**Remarks:**

Approved by: JUDASACE 3/92

Data sheet for Data Point A-1a. Upland plot with some wetland characteristics.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
**Applicant/Owner:** FELSNER, HOLT & KLEINE/CABELLA'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC./SCT

**Date:** 9/21/05  
**County:** COLORADO  
**State:** COLORADO

**Community ID:** PEM  
**Transsect ID:** A  
**Plot ID:** A-2a

**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.)

*Isolated depression.*

**SOILS**

**Map Unit Name:** Torti-Invents, very steeily, 0-30  
**Drainage Class:** EXCESSIVE  
**Field Observations/Soil Depression:**  
Confirm Mapped Type?  Yes  No

**Soil Profile:** **Matrix Color (Munsell Moist):** 10YR 6/3  
**Mottle (Munsell Moist):** 10YR 6/8  
**Abundance/Contrast:** COMMON/PROMINENT  
**Texture, Concretions, Structure, etc.:** LOAMY  
**Horizon:** 0-3" A  
2-72" B  
10YR 5/3  
10YR 8/4  
FEW/FINE  
LOAMY CLAY

**Hydro Soil Indicators:**  
 Histocell  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chroma Colors

**Concretions:**  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Lined on Local Silty Soil Unit  
 Cemented or Hardened Soil Unit  
 Other (Explain in Remarks)

**Remarks:** Low depression. Area was graded in the past.

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <i>Typha latifolia</i>	A 80%	OBL
2. <i>Eleocharis palustris</i>	H 80%	OBL
3. <i>Ambrosia artemisiifolia</i>	H 45%	FACU
4. <i>Aster foliolosus</i>	H 45%	FAC
5. <i>Setaria pterensis</i>	H 1%	FAC
6. <i>Syntherisma dundleyi</i>	A 5%	NI
7. _____	_____	_____
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____
11. _____	_____	_____
12. _____	_____	_____
13. _____	_____	_____
14. _____	_____	_____
15. _____	_____	_____
16. _____	_____	_____

**Percent of Dominant Species that are OBL, FACW, or FAC (excluding FACU):** 4/5 80.0%

**Remarks:** No shrub or overstory layer.

**WETLAND DETERMINATION**

**Hydrophytic Vegetation Present?**  Yes  No (Circle)  
**Wetland Hydrology Present?**  Yes  No (Circle)  
**Hydroic Soils Present?**  Yes  No (Circle)

**Remarks:** Isolated depression.  
FUNCTIONS: UALCES;  
BW-M PA-L  
FA-L TE-L  
SS-L  
SR-M  
U-L  
V-M  
PE-L  
WH-L

Approved by HOUSE 3/92

**HYDROLOGY**

**Recorded Data Describe in Remarks:**  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 No Recorded Data Available

**Field Observations:**  
 Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 7.2 (in.)  
 Depth to Saturated Soil: 7.2 (in.)

**Wetland Hydrology Indicators:**  
**Primary Indicators:**  
 Saturated in Upper 12 Inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Drainage Patterns in Wetlands  
 Other (Explain in Remarks)  
**Secondary Indicators:**  
 Observed Root Channels in Upper 12 Inches  
 Water-Soaked Leaves  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

**Remarks:** Soil dried and cracked. Isolated wetland. No outlet. Depression.

Data sheet for Data Point A-2a, Wetland A-2.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
**Applicant/Owner:** FLEISHNER HOLT + KULLIUB/CABELLA'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC. / SCS

**Date:** 9/21/05  
**County:** STEEPELSON  
**State:** COLORADO

**Community ID:** PEM  
**Transact ID:** A  
**Plot ID:** A-3a

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.)

*Isolated depression wetland.*

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <i>Typha latifolia</i>	H 50%	OBL	9		
2. <i>Potamogeton amplifolius</i>	H 30%	NI	10		
3. <i>Cirsium arvense</i>	H 25%	ACH	11		
4. <i>Erechtachis pulchra</i>	H 20%	OBL	12		
5. <i>Loxium scariosum</i>	H 15%	FAC	13		
6. <i>Solidago serotina</i>	H 10%	OBL	14		
7. <i>Salix fragilis</i>	H 5%	FAC	15		
8. <i>Apocynum androsaemifolium</i>	H 5%	FAC	16		

Percent of Dominant Species that are OBL, FAC or FAC (excluding FAC): 6/8 75%

**Remarks:** No overstory.

**SOILS**

Map Unit Name: *I-70/32<sup>nd</sup> Plot A-3a*  
(Name and Phase): *Torrifluents, very gravelly, 0-3%* Drainage Class: *EXCESSIVE*  
Field Observations: *20p-43700*  
Confirm Mapped Type? (YES) No

Taxonomy (Subgroup): *mesic Natric Torrifuvents*

Profile Description:	Horizon	Metric Color (Munsell Moist)	Metric Color (Munsell Moist)	Mottle	Texture, Concretions, Abundances/Contrast Structures, etc.
0-1	A	10YR 4/1	7.5YR 5/6		Common/Prominent Clay loam
1-712	B	10YR 7/6	10YR 7/6		Common/Distinct Coarctancy

Hydric Soil Indicators:  
 Mottled  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chroma Colors

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Limited on Local Hydric Soils  
 Limited on Nonlocal Hydric Soils  
 Other (Explain in Remarks)

**Remarks:** Depression. Area graded in the past.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
Wetland Hydrology Present?  Yes  No  
Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

**Remarks:** Isolated depression.  
 FUNCTIONS: *FW-M, FW-L, TW-L, SW-L, SW-M, SW-L, PE-L, BW-L*  
 VALUES: *R-L, E-L, H-L, V-M, E-B-L*

Approved by HOURSACE 3192

**HYDROLOGY**

Recorded Date (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Staff Photograph  
 Other: *WATER MARK*  
 No Recorded Data Available

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Saturated in Upper 12 Inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Secondary Indicators:  
 Drainage Patterns in Wetlands  
 Oxidized Root Channels in Upper 12 Inches  
 Water-Stained Leaves  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Field Observations:  
 Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 7/12 (in.)  
 Depth to Saturated Soil: 7/12 (in.)

**Remarks:** Dried cracked soil. Isolated depression. No outlet.

Data sheet for Data Point A-3a, Wetland A-3.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> Avenue Interchange Project  
**Applicant/Owner:** FISHBONE HUNT & MILLER/CABELLA'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC./SGT

**Date:** 9/6/05  
**County:** JEFFERSON  
**State:** COLORADO

**Community ID:** PEM  
**Transact ID:** A  
**Plot ID:** A-4a

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?  
(If needed, explain on reverse.)  
Yes  No

*Isolated depression wetland associated with a drainage ditch  
which has no outlet.*

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <i>Lycopodium obscurum</i>	A 90%	OBL
2. <i>Sagittaria arifolia</i>	A 90%	OBL
3. <i>Eleocharis palustris</i>	A 5%	AW
4. <i>Agrostis scabra</i>	A 5%	AW
5. <i>Phragmites communis</i>	A 1%	AW
6. <i>Cirsium vulgare</i>	A 1%	AW
7. _____	_____	_____
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____
11. _____	_____	_____
12. _____	_____	_____
13. _____	_____	_____
14. _____	_____	_____
15. _____	_____	_____
16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC  
Including FACI: 5/6 83.3%

**Remarks:** No overstory or midstory.

**SOILS**

**Map Unit Name:** I-70/32<sup>nd</sup> Plot A-4a

**Drainage Class:** \_\_\_\_\_  
**Field Observations:** \_\_\_\_\_  
**Continuum Support Type:** Yes  No

Soil Profile	Moisture Regime	Soil Color	Texture, Consistency, Structure, etc.
0-1" A	10YR 7/1	10YR 6/8	COMMON/DISTINCT LOAM
1-70" B	10YR 6/2	10YR 6/8	COMMON/DISTINCT CLAY LOAM
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**Hydric Soil Indicators:**

- Histoid
- Mistic Epipedon
- Organic Stratum in Sandy Soils
- Lined on Local Hydro Soil Unit
- Aquic Moisture Regime
- Fluviatile Conditions
- Gleyed or Luv-Chroma Colors

**Concentrations:**

- High Organic Content in Surface Layer in Sandy Soils
- Organic Stratum in Sandy Soils
- Lined on Local Hydro Soil Unit
- Other (Explain in Remarks)

**Remarks:** Depression. Isolated. Graded in the past.

**WETLAND DETERMINATION**

Hydrolytic Vegetation Present?  No  (Circle)  
Wetland Hydrology Present?  No  (Circle)  
Hydric Soils Present?  No  (Circle)

Is this Sampling Point Within a Wetland?  Yes  No (Circle)

**Remarks:** Isolated depression.  
EWS: 8A-M AHL  
FA-L TEL  
SS-L  
SK-M  
N-L  
PE-L  
UM-L  
LAINES: R-L  
EEL  
U-L  
U-M  
EEL

Approved by: HOUSKOE 3192

**HYDROLOGY**

**Recorded Data (Describe in Remarks):**  
Streams, Lakes, or Tidal Creeks: \_\_\_\_\_  
Other: NONE

**Wetland Hydrology Indicators:**

**Primary Indicators:**

- Saturated in Upper 12 inches
- Water Marks
- Drift Lines
- Sediment Deposits
- Surface Depressions in Wetlands

**Secondary Indicators (2 or more required):**

- Oxidized Root Channels in Upper 12 inches
- Water-Soaked Leaves
- Local Soil Survey Data
- Photographs
- Other (Explain in Remarks)

**Field Observations:**

Depth of Surface Water: 0 (in.)  
Depth to Free Water in Pit: 7/2 (in.)  
Depth to Saturated Soil: 7/2 (in.)

**Remarks:** Isolated wetland. Soil dry + cracking. Drains through ditch which has no outlet. Depression.

Data sheet for Data Point A-4a, Wetland A-4.

*I-70/32nd Plot A-4b*

<p><b>Map Unit Name (Soils and Phase):</b> <i>Torrifluvents, very gravelly, 0-3 B<sub>2</sub></i>     Drainage Class: <i>Excessive</i>                  Field Observation: <i>DRY CRACKS</i>                  Common Mappable Type: <i>CBD No</i></p>																					
<p><b>Soils</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Profile Designation</th> <th>Mottled Color (Munsell Notation)</th> <th>Mottled Abundances/Content</th> <th>Termin. Concentrations</th> </tr> <tr> <td>0-2" A1</td> <td>10YR 8/1</td> <td>7YR 5/3</td> <td>CLAY LAYER</td> </tr> <tr> <td>2-4" A2</td> <td>10YR 6/2</td> <td>7YR 6/3</td> <td>COMMON/DISTINCT</td> </tr> <tr> <td>4-70" A3</td> <td>10YR 8/1</td> <td>7YR 7/3</td> <td>COMMON/DISTINCT</td> </tr> <tr> <td></td> <td></td> <td></td> <td>FINE SAND</td> </tr> </table>		Profile Designation	Mottled Color (Munsell Notation)	Mottled Abundances/Content	Termin. Concentrations	0-2" A1	10YR 8/1	7YR 5/3	CLAY LAYER	2-4" A2	10YR 6/2	7YR 6/3	COMMON/DISTINCT	4-70" A3	10YR 8/1	7YR 7/3	COMMON/DISTINCT				FINE SAND
Profile Designation	Mottled Color (Munsell Notation)	Mottled Abundances/Content	Termin. Concentrations																		
0-2" A1	10YR 8/1	7YR 5/3	CLAY LAYER																		
2-4" A2	10YR 6/2	7YR 6/3	COMMON/DISTINCT																		
4-70" A3	10YR 8/1	7YR 7/3	COMMON/DISTINCT																		
			FINE SAND																		
<p><b>Hydro Soil Indicators:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Histic Epipedon</li> <li><input type="checkbox"/> Histic Entisol</li> <li><input type="checkbox"/> Sulfidic Odor</li> <li><input type="checkbox"/> X Aquic Moisture Regime (Including Common Terms)</li> <li><input type="checkbox"/> X Depred or Un-Chrome Colors</li> </ul> <p><b>Concentrations:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils</li> <li><input type="checkbox"/> Organic Streaking in Sandy Soils</li> <li><input type="checkbox"/> Lined on National Hydroic Soils List</li> <li><input type="checkbox"/> Other (Explain in Remarks)</li> </ul>																					
<p><b>Remarks:</b> <i>Depression. Cracked in the part.</i></p>																					

  

<p><b>WETLAND DETERMINATION</b></p> <p>Hydrobiotic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Circle)                  Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  Hydroic Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><b>Remarks:</b> <i>Isolated depression.</i></p> <p style="text-align: right;">Approved by: <i>HYDROLOGIST</i></p>	
--	--

  

<p><b>DATA FORM</b> ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)</p>																																																				
<p><b>Project Site:</b> <i>I-70/32nd AVENUE INTERCHANGE PROJECT</i>  <b>Investigator:</b> <i>ALANNE REYNOLDS/SHARON BUCK</i></p>	<p><b>Date:</b> <i>9/21/05</i>  <b>County:</b> <i>CHERRY</i>  <b>State:</b> <i>COLORADO</i></p>																																																			
<p><b>Community ID:</b> <i>PEM</i>  <b>Plot ID:</b> <i>A-4b</i></p>	<p>Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  (If needed, explain on reverse.)</p>																																																			
<p><b>VEGETATION</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Dominant Plant Species</th> <th>Stratum</th> <th>Indicator</th> </tr> <tr> <td>1. <i>Zizania latifolia</i></td> <td>H 80%</td> <td>OBL</td> </tr> <tr> <td>2. <i>Cirsium arvense</i></td> <td>H 8%</td> <td>FAC</td> </tr> <tr> <td>3. <i>Quercus scabra</i></td> <td>A 30%</td> <td>FAC</td> </tr> <tr> <td>4. <i>Aquilegia vulgaris</i></td> <td>A 1%</td> <td>FAC</td> </tr> <tr> <td>5. <i>Arctium lappaceum</i></td> <td>H 1%</td> <td>FAC</td> </tr> <tr> <td>6. _____</td> <td></td> <td></td> </tr> <tr> <td>7. _____</td> <td></td> <td></td> </tr> <tr> <td>8. _____</td> <td></td> <td></td> </tr> <tr> <td>9. _____</td> <td></td> <td></td> </tr> <tr> <td>10. _____</td> <td></td> <td></td> </tr> <tr> <td>11. _____</td> <td></td> <td></td> </tr> <tr> <td>12. _____</td> <td></td> <td></td> </tr> <tr> <td>13. _____</td> <td></td> <td></td> </tr> <tr> <td>14. _____</td> <td></td> <td></td> </tr> <tr> <td>15. _____</td> <td></td> <td></td> </tr> <tr> <td>16. _____</td> <td></td> <td></td> </tr> </table> <p>Percent of Dominant Species that are OBL, FAC or FAC (including FAC): <i>4/5 80.0%</i></p> <p><b>Remarks:</b> <i>No overstory or midstory.</i></p>		Dominant Plant Species	Stratum	Indicator	1. <i>Zizania latifolia</i>	H 80%	OBL	2. <i>Cirsium arvense</i>	H 8%	FAC	3. <i>Quercus scabra</i>	A 30%	FAC	4. <i>Aquilegia vulgaris</i>	A 1%	FAC	5. <i>Arctium lappaceum</i>	H 1%	FAC	6. _____			7. _____			8. _____			9. _____			10. _____			11. _____			12. _____			13. _____			14. _____			15. _____			16. _____		
Dominant Plant Species	Stratum	Indicator																																																		
1. <i>Zizania latifolia</i>	H 80%	OBL																																																		
2. <i>Cirsium arvense</i>	H 8%	FAC																																																		
3. <i>Quercus scabra</i>	A 30%	FAC																																																		
4. <i>Aquilegia vulgaris</i>	A 1%	FAC																																																		
5. <i>Arctium lappaceum</i>	H 1%	FAC																																																		
6. _____																																																				
7. _____																																																				
8. _____																																																				
9. _____																																																				
10. _____																																																				
11. _____																																																				
12. _____																																																				
13. _____																																																				
14. _____																																																				
15. _____																																																				
16. _____																																																				
<p><b>HYDROLOGY</b></p> <p>Recorded Data (Describe in Remarks):  <input checked="" type="checkbox"/> Aerial Photographs  <input checked="" type="checkbox"/> Other <i>NOU map</i>  <input type="checkbox"/> No Recorded Data Available</p> <p><b>Field Observations:</b></p> <p>Depth of Surface Water: _____ (in.)                  Depth to Free Water in Pit: <i>2/2</i> (in.)                  Depth to Saturated Soil: <i>2/2</i> (in.)</p> <p><b>Remarks:</b> <i>Dry and cracked soil. Isolated wetland. Depression drained by a ditch which has no outlet.</i></p>																																																				

Data sheet for Data Point A-4b, Wetland A-4.

<p style="text-align: center;"><b>DATA FORM</b> <b>ROUTINE WETLAND DETERMINATION</b> (1987 COE Wetlands Delineation Manual)</p> <p>Project Site: <u>I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT</u>          Applicant/Owner: <u>HESSBURG HOLDING &amp; DEVELOPMENT CORP.</u>          Investigator: <u>NATURAL RESOURCE SERVICES, INC./NRSI</u></p> <p>Date: <u>9/2/05</u>          County: <u>SEDFORD</u>          State: <u>COLORADO</u></p> <p>Community ID: <u>UPL</u>          Transsect ID: <u>A</u>          Plot ID: <u>A-4c</u></p> <p>Do Normal Circumstances exist on the site?          Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>          Is this site significantly disturbed (Atypical Situation)?          Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>          Is this area a potential Problem Area?          Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>          (If needed, explain on reverse.)</p>	<p style="text-align: center;"><b>VEGETATION</b></p> <p>Dominant Plant Species: <u>9/2/05</u>          Stratum: <u>H 50% N/E</u>          Indicator: _____</p> <p>1. <u>ALGHEMUS MACTRINIS</u>          2. <u>HELIOPSIS</u> sp.          3. <u>CAROLINIANA</u> ssp. <u>sp.</u>          4. <u>AGROPYRON CRISTATUM</u>          5. _____          6. _____          7. _____          8. _____          9. _____          10. _____          11. _____          12. _____          13. _____          14. _____          15. _____          16. _____</p> <p>Percent of Dominant Species that are OBL, FACW or FAC (Use only FAC): _____          (Use only FAC): _____</p> <p>Remarks: <u>NO overstory or midstory.</u></p>	<p style="text-align: center;"><b>SOILS</b></p> <p>Map Unit Name (Soils and Their): _____          Drainage Class: <u>Episodic</u>          Field Observations: <u>Very gully 0-3%</u>          Confirm Maped Unit: <u>Yes</u> No <input type="checkbox"/></p> <p>Taxonomy (Subgroup): <u>Ustic Terrace Fluvents</u>          Mottles: _____          Matrix Color: _____          (Munsell Moist): _____          Horizon: _____          0-20 A 10 YR 7/4          10 A M</p> <p>Moisture Regime: _____          Soil Temperature Regime: _____          Soil Moisture Regime: _____          Soil Temperature Regime: _____          Soil Moisture Regime: _____          Soil Temperature Regime: _____</p> <p>Hydric Soil Indicators:          Mottled _____          Hard Epipedon _____          Sulfidic Odor _____          Aquic Moisture Regime _____          Reducing Conditions _____          Gray or Low-Chrome Colors _____</p> <p>Concretions _____          High Organic Content in Surface Layer in Sandy Soils _____          Organic Stranding in Sandy Soils _____          Unid on Local Hydric Soil List _____          Unid on National Hydric Soil List _____          Other (Explain in Remarks) _____</p> <p>Remarks: _____</p>	<p style="text-align: center;"><b>HYDROLOGY</b></p> <p>Recorded Data (Describe in Remarks):  <input checked="" type="checkbox"/> Aerial Photographs  <input checked="" type="checkbox"/> Other <u>NOI MAP</u>  <input type="checkbox"/> No Recorded Data Available</p> <p>Field Observations:          Depth of Surface Water: <u>0</u> (in.)          Depth to Free Water in Pit: <u>7/12</u> (in.)          Depth to Saturated Soil: <u>7/12</u> (in.)</p> <p>Wetland Hydrology Indicators:          Primary Indicators:          Inundated _____          Saturated in Upper 12 inches _____          Water Marks _____          Sediment Deposits _____          Drainage Patterns in Wetlands _____          Secondary Indicators (2 or more required):          Conditioned Root Channels in Upper 12 inches _____          Soil Survey Data _____          Local Soil Survey Data _____          FAC Neutral Test _____          Other (Explain in Remarks) _____</p> <p>Remarks: <u>UPLAND PLOT ADJACENT TO DEPRESSIONAL WETLAND</u></p>
<p style="text-align: center;"><b>WETLAND DETERMINATION</b></p> <p>Hydrologic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>          Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>          Hydric Soils Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is this Sampling Point Within a Wetland? (Circle) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Remarks: <u>UPLAND PLOT, Functions: N/A Values: N/A</u></p> <p style="text-align: right;">Approved by: <u>INDUSACE 3392</u></p>			

Data sheet for Data Point A-4c, upland adjacent to Wetland A-3 and A-4.



**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
**Applicant/Owner:** FERRIS HOLDING & MGMT. CO./CABELLA'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC./SCJ

**Date:** 9/26/05  
**County:** STEELES CO  
**State:** COLORADO

**Community ID:** EPA/105  
**Transsect ID:** B-1a  
**Plot ID:** B-1a

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.)

*Silt & Cobble bench along Clear Creek north bank, inside channel.*

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <i>Sarcobatus</i> <i>baileyi</i>	H 50% OBL	
2. <i>Solidago</i> <i>virgaurea</i>	H 50% OBL	
3. <i>Carex</i> <i>neboensis</i>	H 20% OBL	
4. <i>Poa</i> <i>annua</i>	H 10% FAC	
5. <i>Echinochloa</i> <i>crus-galli</i>	H 20% FACW	
6. <i>Echinochloa</i> <i>polystachya</i>	H 50% OBL	
7. <i>Setaria</i> <i>berberidensis</i>	H 40% OBL	
8. <i>Sarcobatus</i> <i>baileyi</i>	H 20% OBL	

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

Remarks: *Silt & Cobble bench along Clear Creek north bank, inside channel.*

**SOILS**

Map Unit Name (Series and Phase): *ALLUVIAL cobble + silt.*  
Delineation Class: *Creek Channel*  
Field Observations: *Creek Channel*  
Confirm Mapped Type?  Yes  No

Taxonomy (Subgroup): *Fluvisols*  
Mottled Abundance/Contrast: *Silty loam*  
Texture, Concretions, Structures, etc.: *Cobble*

Profile Description:  
Depth (inches): *0-4"* Mottled Color: *7YR 5/8*  
Horizon: *A* Mottled Abundance/Contrast: *Silty loam*  
*7-4"* Mottled Color: *7YR 5/8* Texture, Concretions, Structures, etc.: *Cobble*

Hydric Soil Indicators:  
 Histosol  
 Saline Epipedon  
 Aquic Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chroma Colors

Concretions, Content in Surface Layer in Sandy Soils  
 Organic Striking in Sandy Soils  
 Listed on Local Hydric Soils List  
 Listed on National Hydric Soils List  
 Other (Explain in Remarks)

Remarks: *Streamside cobble covered with silt.*

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
Wetland Hydrology Present?  Yes  No  
Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks: *Terrace in Clear Creek channel.*  
*FUNCTIONS:*  
*GW-L FH-L R-L*  
*FA-M TE-H EK-H*  
*SS-H N-H*  
*SR-M N-L V-H*  
*AW-H LOM-H EB-L*

Approved by: HOUSACE 392

**HYDROLOGY**

Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 *NO DATA AVAILABLE*  
 No Recorded Data Available

Field Observations:  
Depth of Surface Water: *0* (in.)  
Depth to Free Water in Pit: *7.2* (in.)  
Depth to Saturated Soil: *1.2* (in.)

Wetland Hydrology Indicators:  
Primary Indicators:  
 Saturated in Upper 12 inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
Secondary Indicators (2 or more required):  
 Organic Matter in Upper 12 inches  
 Water-Soaked Leaves  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Remarks: *Silt & Cobble bench adjacent to Clear Creek, inside banks.*

Data sheet B-1a, Wetland B-1.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70 32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
**Applicant/Owner:** RESERVE UNIT + ULLINE/ADRIAN'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC. / SCS

**Date:** 7/26/06  
**County:** STEELES CO  
**State:** COLORADO

**Community ID:** F53  
**Transsect ID:** B  
**Plot ID:** B-1b

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.)

*Plot on steep hill bench 30 feet north of waterline, bench covered with coyote willow and heteraceous plants.*

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <i>Scirpus atrovirens</i>	H 40%	DBL
2. <i>Panicum capillare</i>	H 20%	FAC
3. <i>Alopecurus pratensis</i>	H 20%	FACW
4. <i>Setaria cristata</i>	H 20%	NI
5. <i>Clematis orientalis</i>	MS 10%	NI
6. <i>Solidago canadensis</i>	MS 9%	DBL
7. <i>Urtica dioica</i>	OS 1%	NI
8. <i>Urtica dioica</i>	OS 1%	NI

Percent of Dominant Species that are DBL, FACW or FAC (excluding FAC): 4/7 57.1%

**Remarks:**

**SOILS**

*I-70/32nd Plot B-1b*

**Map Unit Name (Series and Phase):** Alluvial cobble + silt.  
**Drainage Class:**  Very Poor  Poor  Fair  Good  Very Good  Excellent

**Taxonomy (Subgroup):** Fluvisols  
**Confirm Mapped Type?**  Yes  No

**Profile Description:**

Depth (Inches)	Horizon	Mottling (Munsell Notation)	Texture	Abundance/Contrast	Notes
0-1"	A	10YR 4/1	Common/Faint	SILTY SAND	
1-12"	A	10YR 5/3	Common/Faint	SILTY SAND	

**Hydro 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 checked="" type="checkbox"/> Reducing Conditions	<input checked="" type="checkbox"/> Listed on Local Hydroic Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chrome Colors	<input type="checkbox"/> Other (Explain in Remarks)

**Remarks:** Very Sandy Soil. Streamside cobble + sand.

**HYDROLOGY**

**Recorded Data (Describe in Remarks):**  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Spot Height Staff  
 No Recorded Data Available

**Field Observations:**

Depth of Surface Water: 0 (in.)  
Depth to Free Water in Pit: 2/2 (in.)  
Depth to Saturated Soil: 8 (in.)

**Remarks:** Plot is on a terrace about 3 feet above the Clear-Creek waterline, inside banks.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
Water Hydrology Present?  Yes  No  
Hydroic Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

**Remarks:** Plot is about 30 feet north of Clear-Creek waterline.  
Backdrops: 6A-L PE-H, 6A-M 04H-H, 5S-H FA-L, 3R-M TE-H, N-L, U-H, EB-L

Approved by HOUSAGE 3/92

Data sheet for Data Point B-1b, Wetland B-1.

I-70/32nd Plot B-1c

Map Unit Name (Series and Phase): <u>Alluvial cobble + silt</u>		Drainage Class: Field Observations <u>Creek Channel</u> Confirm Mapped Type: <u>CEB</u> No	
Taxonomy (Subgroup): <u>Fluvisols</u>			
Profile Description: (Soils)	Matrix Color (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
<u>0-6" A</u>	<u>7.5YR4/2</u>	<u>7.5YR 6/8</u>	<u>FEN/FAINT SILTY SAND</u>
<u>6+ B</u>			<u>COBBLE</u>

  

Hydro Soil Indicators:	Concretions
<input type="checkbox"/> Histosol	<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"/> Sulfidic Odor	<input checked="" type="checkbox"/> Lined on Local Hydroic Soils List
<input checked="" type="checkbox"/> Aquic Moisture Regime	<input checked="" type="checkbox"/> Lined on National Hydroic Soils List
<input checked="" type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Other (Explain in Remarks)
<input checked="" type="checkbox"/> Clayed or Low-Chrome Colors	

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> Yes	No (Circle)	No
Wetland Hydrology Present?	<input checked="" type="checkbox"/> Yes	No (Circle)	No
Hydroic Soils Present?	<input checked="" type="checkbox"/> Yes	No (Circle)	No
Is this Sampling Point Within a Wetland?	<input checked="" type="checkbox"/> Yes	No (Circle)	No
Remarks:	<u>Terrace within Clear Creek banks,   6W-L FAH-L   FA-M TE-H   SS-H   SR-M   N-L   PE-A   WA-H</u>		

Date: <u>9/26/05</u>	
County: <u>JEFFERSON</u>	
State: <u>COLORADO</u>	
Community ID: <u>PSS</u>	Transsect ID: <u>B</u>
Plot ID: <u>B1c</u>	
Do Normal Circumstances exist on the site? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the site significantly disturbed (Atypical Situation)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Is the area a potential Problem Area? (If needed, explain on reverse.)	
<u>Aside Clear Creek channel banks.</u>	

  

Dominant Plant Species	% COVER	Stratum	Indicator
1. <u>Juncus benthicus</u>	<u>H 70%</u>	<u>OBL</u>	<u>9</u>
2. <u>Verbascum thapsus</u>	<u>H 5%</u>	<u>NI</u>	<u>10</u>
3. <u>Populus deltoides (seedlings)</u>	<u>H &lt;1%</u>	<u>FAC</u>	<u>11</u>
4. <u>Ambrosia scoparium</u>	<u>H &lt;1%</u>	<u>NI</u>	<u>12</u>
5. <u>Juncus dudleyi</u>	<u>H 25%</u>	<u>NI</u>	<u>13</u>
6. <u>Solidago rigida</u>	<u>M 5%</u>	<u>OBL</u>	<u>14</u>
7. <u>Polypodium metellicum</u>	<u>M 5%</u>	<u>HPL</u>	<u>15</u>
8. <u>Polygonum sp.</u>	<u>M 5%</u>	<u>HPL</u>	<u>16</u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 4/7 57.1%

Recorded Date (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other <u>NOI MAP</u> <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input checked="" type="checkbox"/> Water Marks <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Iron or Manganese in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Soaked 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</u> (in.) Depth to Free Water in Pit: <u>7.2</u> (in.) Depth to Saturated Soil: <u>7.2</u> (in.)	Remarks: <u>Low terrace (silt + cobble) next to waterline of Clear Creek.</u>

Data sheet B-1c, Wetland B-1.

I-70/32<sup>nd</sup> Plot C-1a

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Applicant: FLEISHER HOLT + KILLICK/CABELLA'S  
 Investigator: NATURAL RESOURCE SERVICES, INC. / EGT

Date: 9/24/05  
 County: STEELE  
 State: COLORADO

Community ID: PEM  
 Transact ID: C  
 Plot ID: C-1a

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.) Sandy & cobbly soils.

Narrow bench along south bank of Clear Creek.

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <u>Polypodium polypodioides</u>	<u>H</u>	<u>5.0% OBL</u>
2. <u>Polygonum punctatum</u>	<u>H</u>	<u>10% OBL</u>
3. <u>Polygonum punctatum</u>	<u>H</u>	<u>10% OBL</u>
4. <u>Deschampsia cespitosa</u>	<u>H</u>	<u>5% FACW</u>
5. <u>Bidens frondosa</u>	<u>H</u>	<u>5% FACW</u>
6. <u>Rumex crispus</u>	<u>H</u>	<u>5% FACW</u>
7. <u>Cirsium altissimum</u>	<u>H</u>	<u>5% FACW</u>
8. <u>Erigeron annuus</u>	<u>H</u>	<u>5% FACW</u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 7/8 87.5%

Remarks: No overstory!

**SOILS**

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

Taxonomy (Subgroup): \_\_\_\_\_  
 Profile Description: \_\_\_\_\_  
 Depth (inches): 0-12" A  
 Horizon: A  
 Mottles: \_\_\_\_\_  
 Mottles Colors (Munsell Moist): \_\_\_\_\_  
 Mottles Abundance/Contrast: \_\_\_\_\_  
 Texture, Concretions, Structures, etc: Mixture of Sand/Silt/Clay

Hydric Soil Indicators:

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Solonchapon	<input type="checkbox"/> Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Solonchapon	<input type="checkbox"/> Organic Striking in Sandy Soils
<input checked="" 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: Could not insert probe. Too cobbly.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No (Circle)  
 Wetland Hydrology Present?  Yes  No (Circle)  
 Hydric Soils Present?  Yes  No (Circle)

Is this Sampling Point Within a Wetland?  Yes  No (Circle)

Remarks: FUNCTIONS: 6W-L FH-L R-L  
FA-M TE-M EM-M  
M-L L-M V-M  
M-L M-L  
M-L M-L  
M-L M-L

Approved by HOUSAGE 3/82

**HYDROLOGY**

Recorded Date (Describe in Remarks): \_\_\_\_\_  
 Stream, Lake, or Tide Gauge: \_\_\_\_\_  
 Aerial Photography  
 No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 12" (in.)  
 Depth to Saturated Soil: 0-6" (in.)

Remarks: Narrow terrace along south bank of Clear Creek.

Data sheet for Data Plot C-1a, Wetland C-1.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
**Applicant/Owner:** FERRIS HAUT YLLIENE/CABELLA'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC./SON

**Date:** 9/26/05  
**County:** JEFFERSON  
**State:** COLORADO

**Community ID:** P55  
**Transsect ID:** C  
**Plot ID:** C-2a

Do Normal Circumstances exist on the site?  No  
Is the site significantly disturbed (Atypical Situation)?  Yes  
Is the area a potential Problem Area?  No  
(If needed, explain on reverse.)

Bench adjacent to Clear Creek on south bank.

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <i>Cirsium arvense</i>	A 20%	FACU
2. <i>Achillea millefolium</i>	A 20%	FACU
3. <i>Sagittaria arifolia</i>	A 15%	FACU
4. <i>Dipsacis fulvolum</i>	A 50%	AI
5. <i>Aster crispus</i>	A 50%	FACU
6. <i>Helianthus annuus</i>	A 50%	FACU
7. <i>Zizania latifolia</i>	A 20%	OBL
8. <i>Spartina patens</i>	A 10%	FACU

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 7/10 70.0%

**HYDROLOGY**

Recorded Data Describe in Remarks:  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other  
 No Recorded Data Available

**Field Observations:**

Depth of Surface Water: 0 (in.)  
Depth to Free Water in Pit: 212 (in.)  
Depth to Saturated Soil: 12 (in.)

Wetland Hydrology Indicators:  
Primary Indicators:  
 Shaded in Upper 12 inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
Secondary Indicators (2 or more required):  
 Mounds of Rock (mounds in Upper 12 inches)  
 Local Soil Survey Data  
 FAC-Neutral Test  
Other (Explain in Remarks)

**Remarks:** Sandy, cobbly bench adjacent to Clear Creek on south bank.

**SOILS**

Map Unit Name (Soils and Phase): Alluvial cobbles, sand & silt. Drainage Class: U1 (Soils are not in a U1 position)  
Soil Name: FAH-FAH-FAH (Soils are not in a U1 position)  
Soil Series: FAH-FAH-FAH (Soils are not in a U1 position)  
Soil Profile: FAH-FAH-FAH (Soils are not in a U1 position)

Profile Description	Horizon	Mottles	Texture, Concretions, Structures, etc.
0-1" A1	10YR 5/2	10YR 8/8	LOAMY SAND
1-6" A2	10YR 8/1	10YR 8/8	FINE SAND
6+" B	-	-	COBBLE

**Hydro Soil Indicators:**  
 Histosol  
 Histic Epipedon  
 Salidic Ochr  
 Redoximorphic Regime  
 Reducing Conditions  
 Gleyed or Low-Chrome Colors

**Concretions**  
 High Organic Content in Surface Layer in Sandy Soils  
 Other (Explain in Remarks)

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  
Wetland Hydrology Present?  Yes  
Hydroic Soils Present?  Yes

In this Sampling Point Within a Wetland?  Yes

**Remarks:**

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  
Wetland Hydrology Present?  Yes  
Hydroic Soils Present?  Yes

In this Sampling Point Within a Wetland?  Yes

**Remarks:**

Approved by HOUSE 3/92

Data sheet for Data Point C-2a, Wetland C-2.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> AVENUE INTERCHANGE ROSSART  
**Applicant/Owner:** FELSBORE HOLT + KILLEUB/CABELLA'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC./SCJ

**Date:** 9/26/05  
**County:** STEEERSON  
**State:** COLORADO

**Community ID:** AFO  
**Transact ID:** C  
**Plot ID:** C-3a

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.)

**Remarks:** Scoured flow area under a stand of mature willows below an old check dam. THE SITE SHOWS SIGNS OF HIGH FLOW EVENTS. PATCHES OF HERBACEOUS VEGETATION ARE VISIBLY SHADY.

**SOILS**

Map Unit Name (Soils and Phase): Alluvial cobbles, sand + silt Drainage Class: check sheet  
Field Observations: check sheet  
Continuum Mapunit Type: (CDE) No

Taxonomy (Subgroup): fine grained

Profile Designation	Horizon	Mottled Color (Munsell Moist)	Mottled Color (Munsell Dry)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-1" A1					
1-5" A2					
5"					

Hydro Soil Indicators:  
 Histosol  
 Histic Epipedon  
 Sulfidic Odor  
 Organic Strengthening Agents  
 Rupture  
 Rupture Conditions  
 Gleyed or Low-Chroma Colors

Concretions  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Strengthening Agents  
 Lined on National Hydroic Soils List  
 Other (Explain in Remarks)

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
Water Table Present?  Yes  No  
Hydroic Soils Present?  Yes  No

Is this Sampling Point Within a Wetland? (Circle)  Yes  No

**REMARKS:**  
 ELUCTIONS: VALUES:  
 44-1 UH-H  
 44-2 AH-L  
 44-3 TE-M  
 55-1 V-M  
 55-2 PE-L  
 55-3 PE-L

Approved by ROUSACE 3/92

**HYDROLOGY**

Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Aerial Photographs  
 Aerial Photographs  
 No Recorded Data Available

Field Observations:  
 Depth to Surface Water: 0-2 (in.)  
 Depth to Free Water in Pit: 4-6 (in.)  
 Depth to Saturated Soil: 0-1 (in.)

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Water Marks  
 Sediment Deposits  
 Drift Lines  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Secondary Indicators (2 more required):  
 Water-Soaked Leaves  
 FAC-Neutral Test  
 Other (Explain in Remarks)

**REMARKS:** Scattered small areas of standing water with emergent vegetation. Area is flooded with flowing water during high flows.

Data sheet for Data Point C-3a, Wetland C-3.

DATA FORM  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Applicant/Owner: FELSBURGH WOLF + KULLVIG/CABELA'S  
 Investigator: NATURAL RESOURCE SERVICES, INC./SGJ  
 Date: 9/26/05  
 County: STEELESON  
 State: COLORADO  
 Community ID: AS5/BEM  
 Transact ID: C  
 Plot ID: C-4a

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.)

FLAT TERRACE ON SOUTH BANK OF CLEAR CREEK.

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. <i>Phalaris arundinacea</i>	H 50% FACW	
2. <i>Veronica spycallis</i>	H 10% OBL	
3. <i>Cirsium arvense</i>	A 50% FACW	
4. <i>Deschampsia cespitosa</i>	H 20% FACW	
5. <i>Argemones australis</i>	H 5% FACW	
6. <i>Echinops crassifolius</i>	H 1% FACW	
7. <i>Achillea millefolium</i>	H 1% FACW	
8. <i>Polypogon monspeliensis</i>	H 1% OBL	

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 9/11 81.8%

Remarks: PLOT IS AT EDGE OF LARGE STAND OF COYOTE WILLOW, AND ADJACENT STAND OF COYOTE WILLOW.

HYDROLOGY

Recorded Date (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other MAP  
 No Recorded Data Available

Field Observations:  
 Depth of Surface Water: 0 (in.)  
 Depth to Fine Water in Pit: 4 (in.)  
 Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Flooded in Upper 12 Inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Drainage Patterns in Wetlands  
 Secondary Indicators (2 or more required):  
 Rhythmic Micro Channels in Upper 12 Inches  
 Well-Sorted Layers  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Remarks: FLAT SANDY, COBBLY TERRACE ON SOUTH BANK OF CLEAR CREEK. INUNDATED DURING MODERATE TO HIGH FLOWS.

SOILS

Map Unit Name: I-70/32<sup>nd</sup> Plot C-4a  
 Series and Phase: Alluvial cobble, sand, + silt, Fluvisols  
 Diagnostic Class: Grockchano  
 Field Observations: Grockchano  
 Confirm Mapped Type?  CEB No

Profile Description	Mottic Color (Munsell Notation)	Mottic Abundance/Contrast	Mottic Structure, etc.
0-6" A	10YR 3/2	7.5 YR 5/6	COMMON FAINT SANDY SILT
6+"			COBBLE

Hydric Soil Indicators:  
 Histosol  
 Histic Epipedon  
 Sulfidic Ombri  
 Reducing Conditions  
 Gleyed or Low-Chrome Colors

Concretions:  
 High Mo. Content in Surface Layer in Sandy Soils  
 Omb. Streaking in Sandy Soils  
 Listed on Local Hydric Soils List  
 Listed on National Hydric Soils List  
 Other (Explain in Remarks)

Remarks: SANDY TERRACE ADJACENT TO CREEK.

WETLAND DETERMINATION

Hydric Vegetation Present?	Hydrophytic Macrophytes Present?	Hydric Soils Present?	Is this Sampling Point Within a Wetland?	(Circle) YES/NO
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Remarks: EMULSIONS; 6W-M FH-L 6A-M TE-H 5S-H 5E-M V-H 0E-L 0E-H

Approved by: HOUSAGE 3/82

Data sheet for Data Point C-4a, wetland C-4.

I-70/32<sup>nd</sup> Plot C-5a

**DATA FORM**  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Applicant/Owner: RESURFACING & MILLING/CABELA'S  
 Investigator: ZACHARY RESURFACING SERVICES, INC./SGJ  
 Date: 9/25/05  
 County: STEELESDO  
 State: COLORADO  
 Community ID: PSS  
 Transact ID: C  
 Plot ID: C-5a

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.)  
Sandy cobble bench 12" above water line on north bank of CLEAR CREEK.

**VEGETATION**

Dominant Plant Species	Structure	Indicator
1. <u>Clematis virginiana</u>	<u>H 100</u>	<u>NI</u>
2. <u>Galium aparine</u>	<u>H 100</u>	<u>AR04</u>
3. <u>Solidago rigida</u>	<u>MIS 100</u>	<u>00L</u>
4. <u>Solidago rigida</u>	<u>MIS 100</u>	<u>00L</u>
5. <u>Solidago rigida</u>	<u>MIS 100</u>	<u>00L</u>
6. <u>Solidago rigida</u>	<u>MIS 100</u>	<u>00L</u>
7. <u>Solidago rigida</u>	<u>MIS 100</u>	<u>00L</u>
8. <u>Solidago rigida</u>	<u>MIS 100</u>	<u>00L</u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 7/3 66.7%

Remarks: NO OVERSTORY.

**SOILS**

Map Unit Name (Series and Phase): Alluvial sand + silt  
 Drainage Class: FLUVIQUENTS  
 Field Observations: CRACK BANK  
 Confirm Mapped Type: CR5 No

Profile Description	Depth (Inches)	Horizon	Moisture Color (Munsell Moist)	Moisture Abundance/Contrast	Texture, Concretions, Structures, etc.
<u>0-10</u>	<u>A</u>	<u>10 YR 5/2</u>	<u>7.5 YR 5/8</u>	<u>FEW/FAINT</u>	<u>SILTY SAND</u>
<u>10+</u>	<u>B</u>	<u>10 YR 5/2</u>	<u>7.5 YR 5/8</u>	<u>FEW/FAINT</u>	<u>COBBLE</u>

Hydric Soil Indicators:  
 Histosol  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chrome Colors

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Lined on Local Hydric Soils List  
 Other (Explain in Remarks)

Remarks:

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks:  
 FUNCTIONS:  
FA-L FA-L  
FA-H FA-L  
SS-H TE-L  
SR-H  
A-L  
PE-M  
WH-H  
 VALUES:  
FA-L  
FA-M  
V-L  
V-H  
EB-L

Approved by HQUSACE 3192

**HYDROLOGY**

Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other NO DATA  
 No Recorded Data Available

Field Observations:  
 Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 1/2 (in.)  
 Depth to Saturated Soil: 12 (in.)

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Groundwater in Upper 12 inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Secondary Indicators (2 or more required):  
 Odor/Rot Channels in Upper 12 inches  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Remarks: Sandy bench adjacent to north bank of Clear Cr.

Data sheet for Data Point C-5a, Wetland C-5.



I-70/32<sup>nd</sup> Plot C-6a

<p><b>Map Unit Name</b> (Series and Phase): <u>Alluvial cobble, sand + silt</u></p> <p><b>Soils</b></p> <p>Profile Designation: <u>Finegrained</u></p> <p>Depth (inches): <u>0-6" A</u></p> <p>Horizon: <u>10YR 4/6</u></p> <p>Mottled Color (Munsell Notation): <u>10YR 6/8</u></p> <p>Mottled Color (Munsell Notation): <u>FEN/FANT</u></p> <p>Texture, Concretions, Structures, etc.: <u>SILTY SAND</u></p> <p>Other (Explain in Remarks): <u>LARGE COBBLE</u></p>	<p><b>Project Site:</b> <u>I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT</u></p> <p><b>Applicant/Owner:</b> <u>RESURFACING + MAINTENANCE CONTRACTORS</u></p> <p><b>Investigator:</b> <u>ANTHONY RESURFACING, INC. / DCJ</u></p> <p><b>Date:</b> <u>9/26/05</u></p> <p><b>County:</b> <u>JEFFERSON</u></p> <p><b>State:</b> <u>COLORADO</u></p> <p><b>Community ID:</b> <u>FS/PAH</u></p> <p><b>Transsect ID:</b> <u>C</u></p> <p><b>Plot ID:</b> <u>C-6a</u></p> <p>Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is the site significantly disturbed (Atypical Situation)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>(If needed, explain on reverse.)</p> <p><u>Small silty cobble terrace adjacent to Clear Creek on north bank. In fact, it is below check dam. Very rocky.</u></p> <p><b>VEGETATION</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dominant Plant Species</th> <th>Stratum</th> <th>Indicator</th> </tr> </thead> <tbody> <tr> <td>1. <i>Corylus canadensis</i></td> <td>A</td> <td>4/8 FAC</td> </tr> <tr> <td>2. <i>Veronica mescheryi</i></td> <td>A</td> <td>5/8 OBL</td> </tr> <tr> <td>3. <i>Desmodium illinoense</i></td> <td>A</td> <td>3/8 FAC</td> </tr> <tr> <td>4. <i>Cirsium arvense</i></td> <td>A</td> <td>4/8 FAC</td> </tr> <tr> <td>5. <i>Polypogon persicaria</i></td> <td>A</td> <td>5/8 OBL</td> </tr> <tr> <td>6. <i>Muhlenbergia verticillata</i></td> <td>A</td> <td>5/8 FAC</td> </tr> <tr> <td>7. <i>Solidago verticillata</i></td> <td>A</td> <td>5/8 FAC</td> </tr> <tr> <td>8. <i>Solidago rigida</i></td> <td>A</td> <td>5/8 OBL</td> </tr> </tbody> </table> <p>Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): <u>6/8 75.0%</u></p> <p><b>Remarks:</b> <u>ROCKY BANK</u></p>	Dominant Plant Species	Stratum	Indicator	1. <i>Corylus canadensis</i>	A	4/8 FAC	2. <i>Veronica mescheryi</i>	A	5/8 OBL	3. <i>Desmodium illinoense</i>	A	3/8 FAC	4. <i>Cirsium arvense</i>	A	4/8 FAC	5. <i>Polypogon persicaria</i>	A	5/8 OBL	6. <i>Muhlenbergia verticillata</i>	A	5/8 FAC	7. <i>Solidago verticillata</i>	A	5/8 FAC	8. <i>Solidago rigida</i>	A	5/8 OBL
Dominant Plant Species	Stratum	Indicator																										
1. <i>Corylus canadensis</i>	A	4/8 FAC																										
2. <i>Veronica mescheryi</i>	A	5/8 OBL																										
3. <i>Desmodium illinoense</i>	A	3/8 FAC																										
4. <i>Cirsium arvense</i>	A	4/8 FAC																										
5. <i>Polypogon persicaria</i>	A	5/8 OBL																										
6. <i>Muhlenbergia verticillata</i>	A	5/8 FAC																										
7. <i>Solidago verticillata</i>	A	5/8 FAC																										
8. <i>Solidago rigida</i>	A	5/8 OBL																										

  

<p><b>Map Unit Name</b> (Series and Phase): <u>Alluvial cobble, sand + silt</u></p> <p><b>Soils</b></p> <p>Profile Designation: <u>Finegrained</u></p> <p>Depth (inches): <u>0-6" A</u></p> <p>Horizon: <u>10YR 4/6</u></p> <p>Mottled Color (Munsell Notation): <u>10YR 6/8</u></p> <p>Mottled Color (Munsell Notation): <u>FEN/FANT</u></p> <p>Texture, Concretions, Structures, etc.: <u>SILTY SAND</u></p> <p>Other (Explain in Remarks): <u>LARGE COBBLE</u></p>	<p><b>Hydrology</b></p> <p>Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photography <input checked="" type="checkbox"/> Other <u>MAP SHEET</u> <input type="checkbox"/> No Recorded Data Available</p> <p>Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: <u>2/2</u> (in.) Depth to Saturated Soil: <u>12</u> (in.)</p> <p>Remarks: <u>ROCKY BANK AREA BELOW CHECK DAM. PLOT IS ON SILTY COBBLY TERRACE ON NORTH BANK OF CLEAR CREEK ADJACENT TO FLOWING WATER.</u></p>
---	---

  

<p><b>Map Unit Name</b> (Series and Phase): <u>Alluvial cobble, sand + silt</u></p> <p><b>Soils</b></p> <p>Profile Designation: <u>Finegrained</u></p> <p>Depth (inches): <u>0-6" A</u></p> <p>Horizon: <u>10YR 4/6</u></p> <p>Mottled Color (Munsell Notation): <u>10YR 6/8</u></p> <p>Mottled Color (Munsell Notation): <u>FEN/FANT</u></p> <p>Texture, Concretions, Structures, etc.: <u>SILTY SAND</u></p> <p>Other (Explain in Remarks): <u>LARGE COBBLE</u></p>	<p><b>Wetland Determination</b></p> <p>Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Remarks: <u>VALUES: FAC/TOPO: 6W-L FA-L FA-M TE-H SS-H SR-L VE-H BH-H</u></p>
---	--

Data sheet for Data Point C-6a, Wetland C-6.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
**Applicant/Owner:** FERRIS WAT + KILLENE/CABELA'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC./SGJ

**Date:** 9/26/05  
**County:** STEELES CO  
**State:** COLORADO

**Community ID:** PMA/BS  
**Transsect ID:** C-7a  
**Plot ID:** C-7a

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.)

**VEGETATION**  
Rocky bar in middle of Clear Creek channel. Water flows to the south side of the bar, but a bare cobble channel exists on the north side also.

Dominant Plant Species	Stratum	Indicator
1. <i>Phalaris arundinacea</i>	H 10B	FACW
2. <i>Cirsium arvense</i>	H 1B	FACW
3. <i>Dioscorea sp.</i>	H 10B	FACW
4. <i>Aster crispus</i>	H 1B	FACW
5. <i>Lythrum sp.</i>	H 10B	OBL
6. <i>Solidago sp.</i>	M5 5B	OBL
7. <i>Solidago sp.</i>	M5 5B	FAC
8. <i>Lythrum sp.</i>	M5 5B	FACW

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 7/8 87.5%

Remarks: No overstory.

---

**SOILS**

Map Unit Name (Series and Phase): I-70/32<sup>nd</sup> Plot C-7a  
Field Observations: Alluvial cobble sand + silt.  
Drainage Class: Greek channel  
Confirm Mapped Type: CBP No

Taxonomy (Subgroup): Fluvaquents

Profile Description:  
Depth (inches):  
0-6" A  
6+ C

Mott Color (Munsell Moist): 10YR 4/3  
Mott Color (Munsell Dry): 10YR 6/8  
Mott Abundance/Contrast: FEW/FREQUENT

Texture: Concretions, Structures, etc.: SILTY SAND  
LARGE COBBLE

Hydro Soil Indicators:  
 Histic  
 Histic Epipedon  
 Salinity/Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chroma Colors

Concretions, Mottles, Organic Matter, etc. Content in Surface Layer in Sandy Soils  
Organic Matter in Sandy Soils  
Listed on Local Hydro Soils List  
Listed on National Hydro Soils List  
Other (Explain in Remarks)

Remarks: Bar in mid-channel.

---

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  YES  NO  
Wetland Hydrology Present?  YES  NO  
Hydro Soil Present?  YES  NO

Is this Sampling Point Within a Wetland?  YES  NO

Remarks: EXPLANATIONS:  
6A-L FH-M  
FA-M TE-M  
SS-L  
SR-L  
U-L  
PE-M  
WA-M

VALUES:  
R-L  
SL-M  
V-L  
U-H  
EB-L

Approved by: HOUSSAGE 3/92

---

**HYDROLOGY**

Recorded Date (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photography  
 No Recorded Data Available

Wetland Hydrology Indicators:  
Primary Indicators:  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
Secondary Indicators (2 or more required):  
 Drainage Patterns in Wetlands  
 Rooting Patterns in Upper 12 Inches  
 Water-Stained Leaves  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Field Observations:  
Depth of Surface Water: 0 (in.)  
Depth to Free Water in Pit: 712 (in.)  
Depth to Saturated Soil: 12 (in.)

Remarks: Cobble bar in middle of Clear Creek channel.

Data sheet for Data Point C-7a, Wetland C-7.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> Avenue Interchange Project  
**Applicant/Owner:** FERRIS WAT & KILLENE/CABELLA'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC./DGT

**Date:** 9/27/05  
**County:** JEFFERSON  
**State:** COLORADO

**Community ID:** P35  
**Transsect ID:** 0  
**Plot ID:** D-1a

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.)  
*Isolated depression.*

**VEGETATION**

Dominant Plant Species	% Cover	Stratum	Indicator
1. <i>Populus deltoides</i>	MS	SFB	ALC
2. <i>Populus angustifolia</i>	MS	SFB	ALC
3. <i>Taraxacum officinale</i>	MS	SFB	ALC
4. _____	_____	_____	_____
5. <i>Populus angustifolia</i>	DS	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACI): 4/4 100%

**Remarks:** No herbaceous vegetation. Bare earth. Dried and Cracked.

**HYDROLOGY**

Recorded Date (Describe in Remarks): \_\_\_\_\_  
Stream, Lake, or Tide Gauge: \_\_\_\_\_  
 Aerial Photographs  
 Other: *Hand Map*  
 No Recorded Data Available

**Field Observations:**

Depth of Surface Water: 0 (in.)  
Depth to Free Water in Pit: 7.2 (in.)  
Depth to Saturated Soil: 7.2 (in.)

**Remarks:** Depression (isolated); No inlet or outlet. Dry. Cracked surface soil. No herbaceous plants.

**Wetland Hydrology Indicators:**

Primary Indicators:  
 Sustained Surface Water in Upper 12 Inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Drainage Patterns in Wetlands  
 Secondary Indicators (2 or more required):  
 Reddish Soil Chroma in Upper 12 Inches  
 Well-Sorted Layers  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

**DATA FORM**  
I-70/32<sup>nd</sup> Plot D-1a

**Map Unit Name** \_\_\_\_\_  
**(Series and Phase):** *Alde-Nipost complex, 0-2%*  
**Drainage Class:** *Sensu lato, Type 1*  
**Field Observations:** *Isolated depression*  
**Confirm Mapped Type?**  Yes  No

**Taxonomy (Subgroup):** *Fluvisols, Typic Fluvisols*  
**Texture, Concretions, Strata, etc.:** \_\_\_\_\_

**Profile Description:**

Depth (feet)	Horizon	Mottles (Munsell Moist)	Mottles (Munsell Dry)	Abundances/Contrast	Texture, Concretions, Strata, etc.
0-3"	A	10YR 4/1	—	—	SANDY LOAM
3+ "	B	10YR 5/3	—	—	ROCKY LOAM (COBBLE)

**Hydric Soil Indicators:**

Histosol  
 Histic Epipedon  
 Sulfidic Ochr  
 Reducing Conditions  
 Gleyed or Low-Chrome Colors

Concretions  
 High Organic Content in Surface Layer in Sandy Soils  
 Limited in Sandy Soils  
 Listed on Local Hydric Soils List  
 Listed on National Hydric Soils List  
 Other (Explain in Remarks)

**Remarks:** *Depression. Isolated. Graded in the past.*

**WETLAND DETERMINATION**

Hydric Vegetation Present?  Yes  No  
Hydrophytic Macrofauna Present?  Yes  No  
Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No (Circle)

**Remarks:** *FUNCTIONS: SW-H, FH-L, SA-L, SS-L, SR-H, N-L, PE-L, WH-L, R-L, FE-L, M-L, V-L, EB-L*

Approved by HOUSSACE 3/32

Data sheet for Data Point D-1a, Wetland D-1.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
**Applicant/Owner:** STEEFERSON & MILLER/CABELLA'S  
**Investigator:** ANTHONY RESURREccion, INC./EJC

**Date:** 9/27/05  
**County:** STEEFERSON  
**State:** COLORADO

**Community ID:** PSS  
**Transact ID:** E-1  
**Plot ID:** E-1

**Map Unit Name (Series and Phase):** A1d6-N100T complex, 0-280  
**Delineation Class:** 3000W100T  
**Field Observations:** E100T and F100M 1000M  
**Soils:** Confirm Mapped Type:  No

**Soils**

Profile Designation	Moisture Color (Munsell)	Moisture Abundance/Content	Moisture Structure, etc.
0-6"	A 10 YR 2/1	7.5 YR 6/7	FEN/FAWI SANDY SILT
6-8"	B 10 YR 3/1	7.5 YR 6/7	FEN/FAWI COARSE SAND & COBBLE

**Hydric Soil Indicators:**

- Histosol
- Histic Epipedon
- Sulfidic Color
- Sulfidic Regime
- Reducing Conditions
- Gleyed or Low-Chrome Colors

**Hydric Soil Indicators:**

- Concretions
- High Chrome Content in Surface Layer in Sandy Soils
- Organic Streaking in Sandy Soils
- Listed on Local Hydric Soils List
- Listed on National Hydric Soils List
- Other (Explain in Remarks)

**Remarks:**

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No (Circle)

Soils of a Wetland Present?  Yes  No (Circle)

Hydric Soils Present?  Yes  No (Circle)

Is this Sampling Point Within a Wetland?  Yes  No (Circle)

**Remarks:**

**FUNCTIONS:**  
FAM-M FA-L  
FA-L TE-L  
SS-L  
SP-L  
AU-L  
PE-H  
WH-H

**VALUES:**  
R-L  
EA-L  
U-L  
V-L  
EB-M

Approved by HQUSACE 3782

**VEGETATION**

**Dominant Plant Species**

Species	Stratum	Indicator
1. <i>Asplenium platyneuron</i>	H 58	N/E
2. <i>Phalaris arundinacea</i>	H 100	FACW
3. <i>Cirsium arvense</i>	H 150	FACU
4. <i>Lythrum hyssopifolium</i>	H 200	OBL
5. <i>Centium musculatum</i>	H 150	FACW
6. <i>Solidago canadensis</i>	H 100	FACW
7. <i>Koeleria cristata</i>	H 50	OBL
8. _____	_____	_____

**Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC):** 6/9 66.7%

**Remarks:**

**HYDROLOGY**

**Recorded Data (Describe in Remarks):**  
Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other NAZI MAP  
 No Recorded Data Available

**Field Observations:**

Depth of Surface Water: 0-4 (in.)  
Depth to Free Water in Pit: 0 (in.)  
Depth to Saturated Soil: 0 (in.)

**Wetland Hydrology Indicators:**

**Primary Indicators:**

- Inundated
- Water Marks
- Drift Lines
- Sediment Deposits

**Secondary Indicators (2 or more required):**

- Drainage Patterns in Wetlands
- Oxidized Root Channels in Upper 12 Inches
- Local Soil Survey Data
- FAC-Neutral Test
- Other (Explain in Remarks)

**Remarks:** Ditch between two culverts, 10ft long. Flowing water. Flowing ditch between two culverts, 10ft long.

Data sheet for Data Point E-1a, Wetland E-1.

E-70/32nd PLOT E-2a

<p><b>DATA FORM</b> ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)</p>																												
<p>Project Site: <u>I-70/32nd AVENUE INTERCHANGE PROJECT</u>                  Applicant/Owner: <u>FURNACE MOUNT &amp; KILLICK/CABELLA'S</u>                  Investigator: <u>NATURAL RESOURCE SERVICES, INC./SGJ</u></p> <p>Date: <u>9/27/05</u>                  County: <u>STEELESON</u>                  State: <u>COLORADO</u></p> <p>Community ID: <u>PSS</u>                  Transact ID: <u>E</u>                  Plot ID: <u>E-2a</u></p> <p>Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                  Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                  (If needed, explain on reverse.)</p>	<p><u>Flowing irrigation ditch (Juchem Ditch), site where side ditch from plot E-1 flows into the Juchem Ditch.</u></p> <p><b>VEGETATION</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dominant Plant Species</th> <th>Stratum</th> <th>Indicator</th> </tr> </thead> <tbody> <tr> <td>1. <u>Solidago canadensis</u></td> <td><u>H 5B</u></td> <td><u>FACH</u></td> </tr> <tr> <td>2. <u>Urtica dioica</u></td> <td><u>H 1B</u></td> <td><u>FACH</u></td> </tr> <tr> <td>3. <u>Smilacina stellata</u></td> <td><u>H 1B</u></td> <td><u>FAC</u></td> </tr> <tr> <td>4. <u>Opuntia arborescens</u></td> <td><u>H 2B</u></td> <td><u>FACH</u></td> </tr> <tr> <td>5. <u>Dipsacus fullonum</u></td> <td><u>H 1B</u></td> <td><u>FAC</u></td> </tr> <tr> <td>6. <u>Solidago canadensis</u></td> <td><u>H 5B</u></td> <td><u>FACH</u></td> </tr> <tr> <td>7. <u>Solidago canadensis</u></td> <td><u>H 5B</u></td> <td><u>FACH</u></td> </tr> <tr> <td>8. <u>Solidago canadensis</u></td> <td><u>H 5B</u></td> <td><u>FACH</u></td> </tr> </tbody> </table> <p>Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): <u>47 57.1%</u></p> <p>Remarks:</p>	Dominant Plant Species	Stratum	Indicator	1. <u>Solidago canadensis</u>	<u>H 5B</u>	<u>FACH</u>	2. <u>Urtica dioica</u>	<u>H 1B</u>	<u>FACH</u>	3. <u>Smilacina stellata</u>	<u>H 1B</u>	<u>FAC</u>	4. <u>Opuntia arborescens</u>	<u>H 2B</u>	<u>FACH</u>	5. <u>Dipsacus fullonum</u>	<u>H 1B</u>	<u>FAC</u>	6. <u>Solidago canadensis</u>	<u>H 5B</u>	<u>FACH</u>	7. <u>Solidago canadensis</u>	<u>H 5B</u>	<u>FACH</u>	8. <u>Solidago canadensis</u>	<u>H 5B</u>	<u>FACH</u>
Dominant Plant Species	Stratum	Indicator																										
1. <u>Solidago canadensis</u>	<u>H 5B</u>	<u>FACH</u>																										
2. <u>Urtica dioica</u>	<u>H 1B</u>	<u>FACH</u>																										
3. <u>Smilacina stellata</u>	<u>H 1B</u>	<u>FAC</u>																										
4. <u>Opuntia arborescens</u>	<u>H 2B</u>	<u>FACH</u>																										
5. <u>Dipsacus fullonum</u>	<u>H 1B</u>	<u>FAC</u>																										
6. <u>Solidago canadensis</u>	<u>H 5B</u>	<u>FACH</u>																										
7. <u>Solidago canadensis</u>	<u>H 5B</u>	<u>FACH</u>																										
8. <u>Solidago canadensis</u>	<u>H 5B</u>	<u>FACH</u>																										
<p><b>SOILS</b></p> <p>Moisture Regime: <u>Allo- Nivul Complex, 0-2B</u> Drainage Class: <u>Some water table</u>                  Field Observations: <u>Typical hydrologic conditions</u>                  Confirm Mapped Type? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Profile Description</th> <th>Horizon</th> <th>Mottles (Munsell Moist)</th> <th>Mottles (Munsell Moist)</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-6</td> <td><u>A</u></td> <td><u>10YR 3/1</u></td> <td><u>7.5 YR 6/7</u></td> <td><u>FEN/FAINT SANDY SILT</u></td> </tr> <tr> <td>6+</td> <td><u>B</u></td> <td><u>10YR 3/1</u></td> <td><u>7.5 YR 6/7</u></td> <td><u>FEN/FAINT SANDS &amp; RIPRAP COBBLE</u></td> </tr> </tbody> </table> <p>Hydro Soil Indicators:  <input type="checkbox"/> Histosol  <input type="checkbox"/> Histic Epipedon  <input checked="" type="checkbox"/> Sulfidic Odor  <input checked="" type="checkbox"/> Aquic Moisture Regime  <input checked="" type="checkbox"/> Reducing Conditions  <input checked="" type="checkbox"/> Grayed or Low-Chroma Colors</p> <p>Concretions  <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils  <input type="checkbox"/> Organic Streaking in Sandy Soils  <input type="checkbox"/> Listed on Local Mapped Hydrologic Soil List  <input type="checkbox"/> Other (Explain in Remarks)</p> <p>Remarks: <u>PLOT WAS AT THE WATER'S EDGE.</u></p>		Profile Description	Horizon	Mottles (Munsell Moist)	Mottles (Munsell Moist)	Texture, Concretions, Structure, etc.	0-6	<u>A</u>	<u>10YR 3/1</u>	<u>7.5 YR 6/7</u>	<u>FEN/FAINT SANDY SILT</u>	6+	<u>B</u>	<u>10YR 3/1</u>	<u>7.5 YR 6/7</u>	<u>FEN/FAINT SANDS &amp; RIPRAP COBBLE</u>												
Profile Description	Horizon	Mottles (Munsell Moist)	Mottles (Munsell Moist)	Texture, Concretions, Structure, etc.																								
0-6	<u>A</u>	<u>10YR 3/1</u>	<u>7.5 YR 6/7</u>	<u>FEN/FAINT SANDY SILT</u>																								
6+	<u>B</u>	<u>10YR 3/1</u>	<u>7.5 YR 6/7</u>	<u>FEN/FAINT SANDS &amp; RIPRAP COBBLE</u>																								
<p><b>WETLAND DETERMINATION</b></p> <p>Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>In this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Remarks: <u>IRRIGATION DITCH, (JUCHEM DITCH), MINIMAL WETLAND ON EDGES &amp; WHERE DRAINAGE PIPE ENTERS, VALUES: 6B-L PE-M, 6B-L AM-L, 5B-L EM-L, 5B-L FE-L, N-M, EB-H</u></p> <p style="text-align: right;">Approved by ROUSACE 3192</p>																												
<p><b>HYDROLOGY</b></p> <p>Recorded Date (Describe in Remarks):                  Stream, Lake, or Tide Gauge  <input checked="" type="checkbox"/> Aerial Photographs  <input checked="" type="checkbox"/> Current or Past MAP  <input type="checkbox"/> No Recorded Data Available</p> <p>Field Observations:                  Depth of Surface Water: <u>0</u> (in.)                  Depth to First Water in Pit: <u>4</u> (in.)                  Depth to Saturated Soil: <u>3</u> (in.)</p> <p>Wetland Hydrology Indicators:                  Primary Indicators:  <input checked="" type="checkbox"/> Ponded in Upper 12 inches  <input checked="" type="checkbox"/> Water Marks  <input checked="" type="checkbox"/> Drift Lines  <input checked="" type="checkbox"/> Sediment Deposits                  Secondary Indicators (2 or more required):  <input checked="" type="checkbox"/> Drainage Patterns in Wetlands  <input checked="" type="checkbox"/> Widened Channels in Upper 12 inches  <input checked="" type="checkbox"/> Water-Soaked Leaves  <input checked="" type="checkbox"/> Local Soil Survey Data  <input checked="" type="checkbox"/> FAC-Neutral Test  <input type="checkbox"/> Other (Explain in Remarks)</p> <p>Remarks: <u>Steep banks to flowing water, Irrigation ditch.</u></p>																												

Data sheet for Data Point E-2a, Wetland E-2. Part of the Juchem Ditch.

I-70/32<sup>nd</sup> RD, Plot F-1a

**DATA FORM**  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Applicant/Owner: RESURVEYING CONTRACTORS, INC. / CABELLA'S  
 Investigator: RESURVEYING CONTRACTORS, INC. / CABELLA'S  
 Date: 7/27/05  
 County: STEELESON  
 State: COLORADO  
 Community ID: Am/PSS  
 Transact ID: FL  
 Plot ID: FL

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.)  
Drainage ditch along SH 58 frontage road. Wetland boundary.

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <u>Typica latifolia</u>	<u>H 70%</u>	<u>OBL</u>
2. <u>Fragaria virginiana</u>	<u>H 50%</u>	<u>OBL</u>
3. <u>Dioscorea villosa</u>	<u>H 20%</u>	<u>NE</u>
4. <u>Cirsium arvense</u>	<u>H 20%</u>	<u>FACU</u>
5. <u>Lamium minor</u>	<u>H 50%</u>	<u>OBL</u>
6. <u>Oenothera villosa</u>	<u>H 5%</u>	<u>FACU</u>
7. <u>Lythrum hyssopifolium</u>	<u>H 5%</u>	<u>FACU</u>
8. <u>Solidago canadensis</u>	<u>MS 20%</u>	<u>OBL</u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU): 7/9 77.8%

Remarks: Slope (50 g/m<sup>2</sup>) has field bindweed, wild radish, grassy lettuce, Canada thistle, crested wheatgrass, horseweed, smooth bromegrass.

**SOILS**

Map Unit Name (Soils and Phase): Alde-Nisost complex, 0-2%      Delineation Class: Some  
 Taxonomy (Subgroup): Fluvisols, Typic Argosols      Field Observations: Drainage ditch  
 Profile Descriptions: Fluvisols, Typic Argosols      Confirm Mapped Type?  No

Depth (ft/in)	Horizon	Mottle Color (Munsell Notation)	Mottle Abundance/Contrast	Texture, Concretions, Structures, etc.
0-6"	A	7.5YR 3/1	7.5YR 7/8	Common / prominent
6-8"	B	7.5YR 3/1	7.5YR 7/8	Common / prominent

Hydro Soil Indicators:

- Historical
- Soil Erosion
- Saline Conditions
- Acidic Moisture Regime
- Reducing Conditions
- Gleyed or Low-Chroma Colors

Concretions and Content in Surface Layer in Sandy Soils

- Organic Striking in Sandy Soils
- Listed on Local Hydroic Soils List
- Listed on National Hydroic Soils List
- Other (Explain in Remarks)

Remarks:

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydroic Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks: Roadside drainage ditch.

FUNCTIONS:  
6W-H FH-L  
6A-L TE-L  
5S-L H-L  
5N-L U-L  
6E-L  
6H-M

Approved by: HOUSAGE 3/32

Data sheet for Data Point F-1a, Wetland F-1.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> Avenue Interchange Project  
 Application No.: FEIS/9001-001-1-001/001-001  
 Investigator: ANTHONY RESNORE SERVICES, INC. / SCS  
 Date: 9/29/05  
 County: COLORADO  
 State: COLORADO  
 Community ID: PEM  
 Transect ID: F  
 Plot ID: F1b

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.)  
Drainage ditch to south of SH 28 Frontage road.

**VEGETATION**

Dominant Plant Species	Standard Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>Spartina patens</u>	<u>H 20%</u>	9. <u>Spartina patens</u>		
2. <u>Spartina patens</u>	<u>H 20%</u>	10. <u>Spartina patens</u>		
3. <u>Spartina patens</u>	<u>H 20%</u>	11. <u>Spartina patens</u>		
4. <u>Spartina patens</u>	<u>H 20%</u>	12. <u>Spartina patens</u>		
5. <u>Spartina patens</u>	<u>H 20%</u>	13. <u>Spartina patens</u>		
6. <u>Spartina patens</u>	<u>H 20%</u>	14. <u>Spartina patens</u>		
7. <u>Spartina patens</u>	<u>H 20%</u>	15. <u>Spartina patens</u>		
8. <u>Spartina patens</u>	<u>H 20%</u>	16. <u>Spartina patens</u>		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 2/4 50%  
 Remarks:

**SOILS**

Map Unit Name:   
 (Series and Phase): A1d0 - Niwet complex, 0-3%  
 Drainage Class: SPRINGHEAD  
 Field Observations: Drainage ditch  
 Confirm Mapped Type?  Yes  No

Taxonomy (Subgroup): Eutric Gleysols - Typic Haplogleysols

Profile Description	Mottled Color (Munsell Moist)	Mottled Color (Munsell Dry)	Mottled Color (Munsell Moist)	Mottled Color (Munsell Dry)	Texture, Concretions, Abundance/Content/Structure, etc.
0-6"	<u>7.5 YR 3/2</u>	<u>7.5 YR 7/8</u>	<u>7.5 YR 3/2</u>	<u>7.5 YR 7/8</u>	<u>Common/Prominent SANDY LOAM</u>
6+ "	<u>7.5 YR 4/2</u>	<u>7.5 YR 7/8</u>	<u>7.5 YR 4/2</u>	<u>7.5 YR 7/8</u>	<u>Common/Prominent SANDY LOAM GRAVEL</u>

Hydro Soil Indicators:  
 Histosol  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Red and/or yellow chroma in upper 10 cm  
 Gleysols or Low-Chroma Colors

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Listed on Local Hydro Soil List  
 Other (Explain in Remarks)

Remarks:

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydric Soil Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks:  
 FUNCTIONS:  
6W-H WA-M  
FA-L FA-L  
SS-L TE-L  
SR-H  
N-L  
PE-L  
EB-A

Approved by HQUSACE 3932

**HYDROLOGY**

Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other WALDAP  
 No Recorded Data Available

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Flooded in Upper 12 inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Secondary Indicators (2 or more required):  
 Drainage Patterns in Wetlands  
 Oxidized Flood Channels in Upper 12 inches  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Field Observations:  
 Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 0 (in.)  
 Depth to Saturated Soil: 12 (in.)

Remarks: Roadside drainage ditch.

Data sheet for Data Point F-1b, Wetland F-1.

I-70/32<sup>nd</sup> and PLOT G-1a

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Applicant Owner: RESURVEY HUNT + KULLIVIG/CABELLA'S  
 Investigator: ZACHARY RESURVEY SERVICES, INC./SGJ  
 Date: 9/27/05  
 County: STEELESDALE  
 State: COLORADO  
 Community ID: DEM/PAS  
 Transact ID: 6  
 Plot ID: 6-1a

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.)

Drainage ditch south of SH58 frontage road.

**VEGETATION**

Dominant Plant Species	% Coverage	Stratum	Indicator
1. <i>Dissectans foliolosum</i>	H 30%	O3	2 FAC
2. <i>Trifolium pratense</i>	H 70%	O5	4 FAC
3. <i>Scirpus americanus</i>	H 5%	OBL	
4. <i>Salix exigua</i>	H 5%	OBL	
5. <i>Salix exigua</i>	MS 20%	OBL	
6. <i>Salix purpurea</i>	O5	L	NI

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 6/6 100%

Remarks:

**SOILS**

Map Unit Name (Series and Phase): Alaca-Niwot complex, 0-2% Drainage Class: SOMEWHAT POOR  
 Field Observations: Dark, silty, 8-14  
 Confirm Mapped Type (CDS) No

Taxonomy Subgroup: Humic, silty, clayey, silty loam  
 Mottles: Abundant/Contrast  
 Structure: SI, CL, LO  
 Texture: SANDY CLAY

Profile Description:  
 Depth (ft/in): 0-3" A 3-6" B 6+" B  
 Mottles Color (Munsell Moist): 5YR 6/8 7.5YR 6/1  
 Mottles Abundance/Contrast: Common/Abundant Common/Abundant  
 Structure: SANDY CLAY SANDY COBBLE

Hydric Soil Indicators:  
 Histosol  
 Hydric  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chrome Colors

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Listed on Local Hydric Soils List  
 Listed on National Hydric Soils List  
 Other (Explain in Remarks)

Remarks:

**HYDROLOGY**

Recorded Date (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other NDSI MAP  
 No Recorded Data Available

Field Observations:  
 Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 712 (in.)  
 Depth to Saturated Soil: 712 (in.)

Remarks: Drainage ditch.

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Standing Water in Upper 12 Inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Drainage Patterns in Wetlands  
 Secondary Indicators (2 or more required):  
 Water-Soaked Layer in Upper 12 Inches  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No (Circle)

Remarks:  
FACTORS:  
6W-H FH-L  
FA-L TE-L  
SS-L U-L  
SR-H V-L  
PE-L EB-H  
NH-H

Approved by HDS/ACE 3/82

Data sheet for Data Point G-1a, Wetland G-1.



DATA FORM  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project/Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Date: 9/29/05  
 Applicant/Owner: PESSURE HOIT & HULVIE/CABELA'S  
 County: STEELE  
 Investigator: MARSHAL RESUMBLE SERVICES, INC. / SCS  
 State: COLORADO  
 Community ID: PEM  
 Is the site significantly disturbed (Atypical Situation)?  Yes  No  
 Is the area a potential Problem Area?  Yes  No  
 (If needed, explain on reverse.)

Drainage ditch south of SH58 frontage road.

VEGETATION

Dominant Plant Species	Stratum	Indicator
1. <u>Cirsium discolor</u>	<u>H 50%</u>	<u>FACU</u>
2. <u>Solidago nemoralis</u>	<u>A 55%</u>	<u>OBL</u>
3. <u>Dipsacus fullonum</u>	<u>H 5%</u>	<u>NI</u>
4. <u>Solidago nemoralis</u>	<u>MS 5%</u>	<u>OBL</u>
5. <u>Fragaria virginiana</u>	<u>MS 5%</u>	<u>FACU</u>
6. <u>Acer negundo</u>	<u>MS 1%</u>	<u>FAC</u>
7. <u>Populus deltoides</u>	<u>O 1%</u>	<u>FAC</u>
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____
11. _____	_____	_____
12. _____	_____	_____
13. _____	_____	_____
14. _____	_____	_____
15. _____	_____	_____
16. _____	_____	_____

Percent of Dominant Species that are OBL, FACU or FAC (excluding FAC): 5/6 83.3%

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

HYDROLOGY

Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge: \_\_\_\_\_  
 Aerial Photographs  
 Other: AIR MAP  
 No Recorded Data Available

Field Observations:  
 Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 12 (in.)  
 Depth to Saturated Soil: 13 (in.)

Remarks: Drainage ditch.

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Inundated  
 Waterlogged in Upper 12 inches  
 Mottled Redox  
 Drift Lines  
 Secondary Indicators (2 or more required):  
 Sediment Deposits  
 Drainage Patterns in Wetlands  
 Oxidized Root Channels in Upper 12 inches  
 Water-Stained Leaves  
 Surface Rust  
 FAC-Neutral Test  
 Other (Explain in Remarks): \_\_\_\_\_

SOILS

Map Unit Name (Soils and Phase): Alluvial Plant Complex 0-2%  
 Drainage Class: Intersected  
 Field Observations: Drainage ditch  
 Confirm Mapped Type?  Yes  No

Taxonomy (Subgroup): Fluvisol, Typic Haploregosols

Profile Descriptions:  
 Depth (inches), Horizon: 0-2" A 2-6" A 6-12" B  
 Mottled Color (Munsell Notation): 7.5YR 4/1 7.5YR 6/7 7.5YR 6/7  
 Mottled Color (Abundance/Contrast): Common/Abundant SALTY SILT  
 Texture, Concretions, Structures, etc.: Common/Abundant SILTY SAND  
loamy SAND

Hydro Soil Indicators:  
 Histored  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Mottling Regime  
 Redox Conditions  
 Gleyed or Low-Chrome Colors

Concretions  
 High Organic Content in Surface Layer in Sandy Soils  
 Mottled in Sandy Soils  
 Listed on Local Hydroic Soils List  
 Listed on National Hydroic Soils List  
 Other (Explain in Remarks): \_\_\_\_\_

Remarks: fractured ditch.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?  Yes  No (Circle)  
 Wetland Hydrology Present?  Yes  No (Circle)  
 Hydric Soils Present?  Yes  No (Circle)

Is this Sampling Point Within a Wetland?  Yes  No (Circle)

Remarks: FUNCTIONS: 6W-H PH-L, 6A-L, 6E-L, 6F-L, 6G-L, 6H-L, 6I-L, 6J-L, 6K-L, 6L-L, 6M-L, 6N-L, 6O-L, 6P-L, 6Q-L, 6R-L, 6S-L, 6T-L, 6U-L, 6V-L, 6W-L, 6X-L, 6Y-L, 6Z-L

Approved by HOUSACE 3192

Data sheet for Data Point H-1a, Wetland H-1.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> Avenue Interchange Project  
 Applicant/Owner: FELSBURGH HOLT + KILGUS/CABELLA'S  
 Investigator: NATURAL RESOURCE SERVICES, INC./SCJ

Date: 9/25/05  
 County: JEFFERSON  
 State: COLORADO

Community ID: 035  
 Plot ID: I-1a

Do Normal Circumstances exist on the site?  YES / No  NO  
 Is the site significantly disturbed (Atypical Situation)?  YES / No  NO  
 Is the area a potential Problem Area?  YES / No  NO  
 (If needed, explain on reverse.)

Depression in roadside ditch south of SH 58, isolated.

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <u>DIPSACUS FULGURUM</u>	<u>H</u>	<u>SSB</u>
2. <u>ASCLEPIAS SPECIOZA</u>	<u>H</u>	<u>SSB</u>
3. <u>SALIX EXILIGUA</u>	<u>MIS</u>	<u>MRB</u>
4. <u>VITIS PARVIFLORA</u>	<u>OS</u>	<u>I</u>
5. _____	_____	_____
6. _____	_____	_____
7. _____	_____	_____
8. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 2/2 100%

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

**SOILS**

Map Unit Name: Alba-Nivot complex, D-2B Drainage Class: Somewhat poorly drained  
 (Series and Phase): \_\_\_\_\_ Field Observations: Fe mottled, Fe concretions  
 Taxonomy (Subgroup): Fluvisols, Typic Fluvisols Contaminant Impact Type: None

Profile Description:

Depth (inches)	Horizon	Mottles Color (Munsell Moist)	Mottles Abundance/Contrast	Mottles Texture, Concretions, Structure, etc.
0-2"	A	7.5 YR 4/1	---	SANDY LOAM
4-6"	B	7.5 YR 4/1	---	LOAMY SAND
6+ "	C	---	---	GRAVEL + SAND

Hydro Soil Indicators:

- \_\_\_ Histosols
- \_\_\_ High Organic Content in Surface Layer in Sandy Soils
- \_\_\_ Organic Streaking in Sandy Soils
- \_\_\_ Listed on Local Hydroic Soils List
- \_\_\_ Listed on National Hydroic Soils List
- \_\_\_ Reducing Conditions
- \_\_\_ Clayed or Low-Chrome Colors

Concretions

- \_\_\_ High Organic Content in Surface Layer in Sandy Soils
- \_\_\_ Organic Streaking in Sandy Soils
- \_\_\_ Listed on Local Hydroic Soils List
- \_\_\_ Listed on National Hydroic Soils List
- \_\_\_ Other (Explain in Remarks)

Remarks: GRADED IN THE PAST WHEN HIGHWAY BUILT.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?	<input checked="" type="checkbox"/> YES / No <input type="checkbox"/> NO	Is this Sampling Point Within a Wetland?	<input checked="" type="checkbox"/> YES / No <input type="checkbox"/> NO
Wetland Hydrology Present?	<input checked="" type="checkbox"/> YES / No <input type="checkbox"/> NO		
Hydroic Soils Present?	<input checked="" type="checkbox"/> YES / No <input type="checkbox"/> NO		

Remarks: Roadside drainage ditch.

FUNCTIONS: VALUES!  
6P-H WH-L  
FA-L FH-L  
SS-L TE-L  
SR-H  
NI-L  
PE-L  
EB-L

Approved by HOUSAGE 3/92

**HYDROLOGY**

Recorded Date (Describe in Remarks): \_\_\_\_\_  
 Stream, Lake, or Tide Gauge: \_\_\_\_\_  
 Aerial Photographs  
 Other NOVI MAP  
 No Recorded Data Available

Field Observations:

Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 2/2 (in.)  
 Depth to Saturated Soil: 2/2 (in.)

Remarks: Dry depression in roadside ditch.

Data sheet for Data Point I-1a, Wetland I-1.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> Avenue Interchange Project  
**Applicant/Owner:** FELSINGER HOLDING & DEVELOPMENT CO. / CABEJA'S  
**Investigator:** METRICAL RESOURCE SERVICES, INC. / SCSJ

**Date:** 9/27/05  
**County:** STEELES CO  
**State:** COLORADO

**Community ID:** FEMA  
**Transact ID:** I  
**Plot ID:** I-2a

**Do Normal Circumstances exist on the site?**  No  Yes **CR**  
**Is the site significantly disturbed (Atypical Situation)?**  Yes  No **CR**  
**Is the area a potential Problem Area? (If needed, explain on reverse.)**  Yes  No **CR**

**Drain from pipe under SH 58 to pipe under frontage road. Drain vegetation north to south.**

Dominant Plant Species	Stratum	Indicator
1. <i>Panicum capillare</i>	H 50%	FACW
2. <i>Cynodon dactylon</i>	A 50%	FACW
3. <i>Setaria verticillata</i>	A 5%	FACW
4. <i>Eleusine indica</i>	H 75%	FACW
5. <i>Sporobolus polyneurus</i>	A 20%	OBL
6. <i>Echinochloa polystachya</i>	A 5%	OBL
7. <i>Veronica arvensis</i>	H 2%	OBL
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____
11. _____	_____	_____
12. _____	_____	_____
13. _____	_____	_____
14. _____	_____	_____
15. _____	_____	_____
16. _____	_____	_____

**Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC):** 6/7 85.7%

**Remarks:** No midstory or overstory.

---

**SOILS**

**Map Unit Name (Series and Phase):** Alda - Niwot complex 0-2B  
**Drainage Class:** Somewhat poor  
**Field Observations:** Zingine Brick  
**Confirm Mapped Type:** CR No

**Taxonomy (Subgroup):** Euhumic Typic Haplosole  
**Texture, Concretions, Structure, etc.**

**Profile Description:**

Depth (inches)	Horizon	Mottles (Munsell Notation)	Mottles (Munsell Notation)	Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2"	A1	7.5YR 2/1	7.5YR 2/1	FEW/FAINT	SILT
2-12"	A2	7.5YR 4/1	7.5YR 5/8	FEW/FAINT	SANDY SILT
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol	<input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils
<input type="checkbox"/> Mottled Color	<input type="checkbox"/> Mottled Color
<input checked="" type="checkbox"/> Munsell 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-Chrome Colors	<input type="checkbox"/> Other (Explain in Remarks)

**Concretions:** \_\_\_\_\_  
**Remarks:** Graded when road constructed.

---

**WETLAND DETERMINATION**

**Hydrophytic Vegetation Present?**  Yes  No  
**Wetland Hydrology Present?**  Yes  No  
**Hydric Soils Present?**  Yes  No

**Is this Sampling Point Within a Wetland?**  Yes  No

**Remarks:**

**FUNCTIONS:**  
GRAV F-H-L  
FA-L  
SS-L  
M-L  
PE-H  
W-L

**VALUES:**  
R-L  
K-L  
U-L  
EB-H

Approved by HOUSSACE 3392

---

**HYDROLOGY**

**Recorded Data (Describe in Remarks):**  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other **NOI MAP**  
 No Recorded Data Available

**Field Observations:**

**Depth to Surface Water:** 0-8 (in.)  
**Depth to Free Water in Pit:** 6 (in.)  
**Depth to Saturated Soil:** 0-4 (in.)

**Wetland Hydrology Indicators:**

**Primary Indicators:**  
 Inundated  
 Saturated in Upper 12 Inches  
 Direct Marks  
 Drainage Patterns  
 Sediment Deposits

**Secondary Indicators (2 or more required):**  
 Oxidized Root Channels in Upper 12 Inches  
 Water-Stained Leaves  
 Local Soil Survey Data  
 Other (Explain in Remarks)

**Remarks:** Running water in ditch from one pipe to another. Wet east and west in the ditch. I soaked outside pipes

Data sheet for Data Point I-2a, Wetland I-2.

I-70/32<sup>nd</sup> Plot I-3a

<b>DATA FORM</b> <b>ROUTINE WETLAND DETERMINATION</b> (1987 COE Wetlands Delineation Manual)																																																										
Project Site: <u>I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT</u> Applicant/Owner: <u>FELSBURGH HOLT &amp; McLEWIE/CABELLA'S</u> Investigator: <u>MARLENE RESNICK SERVICES, INC./SGJ</u> Date: <u>7/30/05</u> County: <u>STEELE</u> State: <u>COLORADO</u> Community ID: <u>PEM</u> Transact ID: <u>I</u> Plot ID: <u>I-3a</u>	Drainage Class: <u>Sequentia</u> Field Observations: <u>Drained ditch</u> Confirm Mapped Type? (Yes/No)																																																									
Do Normal Circumstances exist on the site? <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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If needed, explain on reverse.)																																																										
10' Drainage ditch carrying runoff from pipe under SH58 to pipe 10' drainage ditch carrying runoff from pipe under SH58 to pipe VEGETATION																																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dominant Plant Species</th> <th>Stratum</th> <th>Indicator</th> </tr> </thead> <tbody> <tr> <td>1. <u>Spartina microcarpa</u></td> <td><u>H 80%</u></td> <td><u>OBL</u></td> </tr> <tr> <td>2. <u>Distichlis spicata</u></td> <td><u>H 15%</u></td> <td><u>OBL</u></td> </tr> <tr> <td>3. <u>Lythrum hyssopifolium</u></td> <td><u>H 5%</u></td> <td><u>OBL</u></td> </tr> <tr> <td>4. <u>Arundo donax</u></td> <td><u>H 10%</u></td> <td><u>OBL</u></td> </tr> <tr> <td>5. <u>Panicum capillare</u></td> <td><u>H 10%</u></td> <td><u>OBL</u></td> </tr> <tr> <td>6. <u>Panicum polyanthemum</u></td> <td><u>H 10%</u></td> <td><u>OBL</u></td> </tr> <tr> <td>7. <u>Spartina patens</u></td> <td><u>H 10%</u></td> <td><u>OBL</u></td> </tr> <tr> <td>8. <u>Distichlis spicata</u></td> <td><u>H 10%</u></td> <td><u>OBL</u></td> </tr> <tr> <td colspan="3" style="text-align: right;">Percent of Dominant Species that are OBL, FACW or FAC (excluding FACI): <u>8/8 100%</u></td> </tr> </tbody> </table>	Dominant Plant Species	Stratum	Indicator	1. <u>Spartina microcarpa</u>	<u>H 80%</u>	<u>OBL</u>	2. <u>Distichlis spicata</u>	<u>H 15%</u>	<u>OBL</u>	3. <u>Lythrum hyssopifolium</u>	<u>H 5%</u>	<u>OBL</u>	4. <u>Arundo donax</u>	<u>H 10%</u>	<u>OBL</u>	5. <u>Panicum capillare</u>	<u>H 10%</u>	<u>OBL</u>	6. <u>Panicum polyanthemum</u>	<u>H 10%</u>	<u>OBL</u>	7. <u>Spartina patens</u>	<u>H 10%</u>	<u>OBL</u>	8. <u>Distichlis spicata</u>	<u>H 10%</u>	<u>OBL</u>	Percent of Dominant Species that are OBL, FACW or FAC (excluding FACI): <u>8/8 100%</u>			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dominant Plant Species</th> <th>Stratum</th> <th>Indicator</th> </tr> </thead> <tbody> <tr> <td>9. <u>Spartina torreyi</u></td> <td><u>H 1%</u></td> <td><u>FACW</u></td> </tr> <tr> <td>10. _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>11. _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>12. _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>13. _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>14. _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>15. _____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>16. _____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table>	Dominant Plant Species	Stratum	Indicator	9. <u>Spartina torreyi</u>	<u>H 1%</u>	<u>FACW</u>	10. _____	_____	_____	11. _____	_____	_____	12. _____	_____	_____	13. _____	_____	_____	14. _____	_____	_____	15. _____	_____	_____	16. _____	_____	_____
Dominant Plant Species	Stratum	Indicator																																																								
1. <u>Spartina microcarpa</u>	<u>H 80%</u>	<u>OBL</u>																																																								
2. <u>Distichlis spicata</u>	<u>H 15%</u>	<u>OBL</u>																																																								
3. <u>Lythrum hyssopifolium</u>	<u>H 5%</u>	<u>OBL</u>																																																								
4. <u>Arundo donax</u>	<u>H 10%</u>	<u>OBL</u>																																																								
5. <u>Panicum capillare</u>	<u>H 10%</u>	<u>OBL</u>																																																								
6. <u>Panicum polyanthemum</u>	<u>H 10%</u>	<u>OBL</u>																																																								
7. <u>Spartina patens</u>	<u>H 10%</u>	<u>OBL</u>																																																								
8. <u>Distichlis spicata</u>	<u>H 10%</u>	<u>OBL</u>																																																								
Percent of Dominant Species that are OBL, FACW or FAC (excluding FACI): <u>8/8 100%</u>																																																										
Dominant Plant Species	Stratum	Indicator																																																								
9. <u>Spartina torreyi</u>	<u>H 1%</u>	<u>FACW</u>																																																								
10. _____	_____	_____																																																								
11. _____	_____	_____																																																								
12. _____	_____	_____																																																								
13. _____	_____	_____																																																								
14. _____	_____	_____																																																								
15. _____	_____	_____																																																								
16. _____	_____	_____																																																								
Remarks: <u>No midstory or overstory.</u>																																																										

  

<b>SOILS</b> Map Unit Name: _____ (Series and Phase): <u>A1k-Nimot complex, 0-2%</u> Drainage Class: <u>Sequentia</u> Field Observations: <u>Drained ditch</u> Confirm Mapped Type? (Yes/No)	Taxonomy (Subgroup): <u>Fluvisols-Typic Fluvisols</u> Profile Description: _____ Depth (inches): <u>0-6" A</u> Mottled Colors: _____ Horizon: <u>7.5YR 3/1</u> Mottled Abundance/Contrast: _____ Texture, Concretions, Structure, etc.: _____ <u>6+''</u> <u>BURIED</u> <u>SILT</u> <u>ROCK RIPRAP</u>
Hydric Soil Indicators: <input type="checkbox"/> Histosol <input type="checkbox"/> Histic Epipedon <input checked="" type="checkbox"/> Sulfidic Odor <input checked="" type="checkbox"/> Aquic Moisture Regime <input checked="" type="checkbox"/> Reducing Conditions <input checked="" type="checkbox"/> Gleyed or Low-Chrome Colors Concretions: <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils <input type="checkbox"/> Organic Streaking in Sandy Soils <input type="checkbox"/> Listed on Local Hydric Soils List <input type="checkbox"/> Listed on National Hydric Soils List <input type="checkbox"/> Other (Explain in Remarks)	
Remarks: <u>GRADED WHEN HIGHWAY CONSTRUCTED.</u>	

  

<b>WETLAND DETERMINATION</b> Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Circle) Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Circle) Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Circle)	Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Circle) Remarks: <u>EMERSONS!</u> <u>6W-M 10M-L R-L</u> <u>FA-L FA-L 6B-L</u> <u>SS-L TE-L U-L</u> <u>N-L U-L</u> <u>PE-H 6B-H</u>
Approved by: <u>INDUSACE 3192</u>	

  

<b>HYDROLOGY</b> Recorded Data (Describe in Remarks): <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge <input checked="" type="checkbox"/> Aerial Photographs <input checked="" type="checkbox"/> Other <u>NOCT MAP</u> <input type="checkbox"/> No Recorded Data Available	Wetland Hydrology Indicators: Primary Indicators: <input checked="" type="checkbox"/> Inundated in Upper 12 inches <input checked="" type="checkbox"/> Water Stained Leaves <input checked="" type="checkbox"/> Drift Lines <input checked="" type="checkbox"/> Sediment Deposits <input checked="" type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input checked="" type="checkbox"/> Oxidized Root Channels in Upper 12 inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> FACCH <input type="checkbox"/> Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>0.6</u> (in.) Depth to Free Water in Pit: <u>4</u> (in.) Depth to Saturated Soil: <u>1</u> (in.)	Remarks: <u>Drainage ditch carrying flowing water between pipes.</u>

Data sheet for Data Point I-3a, Wetland I-3.

DATA FORM  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Applicant: FLEISHNER HOLT & KULLER/CABELLA'S  
 Investigator: NATURAL RESOURCE SERVICES, INC./SGJ  
 Date: 9/29/05  
 County: STEELESON  
 State: COLORADO  
 Community ID: PEM  
 Transect ID: I  
 Plot ID: I-4a

Do Normal Circumstances exist on the site?  
 No  
 Yes CD

Is the site significantly disturbed (Atypical Situation)?  
 No  
 Yes CD

Is the area a potential Problem Area?  
 No  
 Yes CD

(If needed, explain on reverse.)

Drainage ditch between pipes under SHS and frontage road.

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <u>Scirpus americanus</u>	<u>H 75%</u>	<u>OBL</u>
2. <u>Apocynum cannabinum</u>	<u>H 5%</u>	<u>FAC</u>
3. <u>Salix microcarpa</u>	<u>H 20%</u>	<u>OBL</u>
4. <u>Spartina polytricha</u>	<u>H 50%</u>	<u>OBL</u>
5. <u>Dasycarpus officinalis</u>	<u>H 20%</u>	<u>OBL</u>
6. <u>Urtica dioica</u>	<u>H 5%</u>	<u>FAC</u>
7. <u>Dip sacus fulvous</u>	<u>H 5%</u>	<u>NI</u>
8. _____	_____	_____
9. _____	_____	_____
10. _____	_____	_____
11. _____	_____	_____
12. _____	_____	_____
13. _____	_____	_____
14. _____	_____	_____
15. _____	_____	_____
16. _____	_____	_____

Percent of Dominant Species that are OBL, FAC or FAN (excluding FAC): 6/8 100%

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

**HYDROLOGY**

Recorded Date (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other APP  
 No Recorded Data Available

Wetland Hydrology Indicators:  
 Primary Indicators:  
 1 Unsat. in Upper 12 inches  
 2 Water Marks  
 3 Drift Lines  
 4 Sediment Deposits  
 Secondary Indicators (2 or more required):  
 5 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30  
 31 Local Soil Survey Data  
 32 FAC-Neutral Test  
 Other (Explain in Remarks)

Field Observations:  
 Depth of Surface Water: 0-6 (in.)  
 Depth to First Water in Pit: 0-2 (in.)  
 Depth to Saturated Soil: 0 (in.)

Remarks: SHS

I-70/32<sup>nd</sup> Plot I-4a

Map Unit Name (Series and Phase): A1a - Moist complex 0-3% Drainage Class: 3 - unconfined  
 Field Observations: Drainage ditch  
 Taxonomy (Subgroup): Eluvial, Typic, Typic, Typic Confined Mapped Type? Yes No

Profile Description:  
 Depth: 0-1' A 7-5' R 5' B  
 Mottles: 1-12" B 1-14" 6/5b

Mottles (Munsell Moist):  
 Mottles: \_\_\_\_\_  
 Abundance/Contrast: \_\_\_\_\_  
 Texture, Concretions, Stagnation, etc.: \_\_\_\_\_

Hydro Soil Indicators:  
 1 Hierogl  
 2 Hierogl  
 3 Hierogl  
 4 Hierogl  
 5 Hierogl  
 6 Hierogl  
 7 Hierogl  
 8 Hierogl  
 9 Hierogl  
 10 Hierogl  
 11 Hierogl  
 12 Hierogl  
 13 Hierogl  
 14 Hierogl  
 15 Hierogl  
 16 Hierogl  
 17 Hierogl  
 18 Hierogl  
 19 Hierogl  
 20 Hierogl  
 21 Hierogl  
 22 Hierogl  
 23 Hierogl  
 24 Hierogl  
 25 Hierogl  
 26 Hierogl  
 27 Hierogl  
 28 Hierogl  
 29 Hierogl  
 30 Hierogl  
 31 Hierogl  
 32 Hierogl  
 33 Hierogl  
 34 Hierogl  
 35 Hierogl  
 36 Hierogl  
 37 Hierogl  
 38 Hierogl  
 39 Hierogl  
 40 Hierogl  
 41 Hierogl  
 42 Hierogl  
 43 Hierogl  
 44 Hierogl  
 45 Hierogl  
 46 Hierogl  
 47 Hierogl  
 48 Hierogl  
 49 Hierogl  
 50 Hierogl  
 51 Hierogl  
 52 Hierogl  
 53 Hierogl  
 54 Hierogl  
 55 Hierogl  
 56 Hierogl  
 57 Hierogl  
 58 Hierogl  
 59 Hierogl  
 60 Hierogl  
 61 Hierogl  
 62 Hierogl  
 63 Hierogl  
 64 Hierogl  
 65 Hierogl  
 66 Hierogl  
 67 Hierogl  
 68 Hierogl  
 69 Hierogl  
 70 Hierogl  
 71 Hierogl  
 72 Hierogl  
 73 Hierogl  
 74 Hierogl  
 75 Hierogl  
 76 Hierogl  
 77 Hierogl  
 78 Hierogl  
 79 Hierogl  
 80 Hierogl  
 81 Hierogl  
 82 Hierogl  
 83 Hierogl  
 84 Hierogl  
 85 Hierogl  
 86 Hierogl  
 87 Hierogl  
 88 Hierogl  
 89 Hierogl  
 90 Hierogl  
 91 Hierogl  
 92 Hierogl  
 93 Hierogl  
 94 Hierogl  
 95 Hierogl  
 96 Hierogl  
 97 Hierogl  
 98 Hierogl  
 99 Hierogl  
 100 Hierogl

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Listed on Local Hydroic Soils List  
 Listed on National Hydroic Soils List  
 Other (Explain in Remarks)

Remarks: graded during highway construction.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks:  
FUNCT ID: 6W-M WA-L, 6A-L FA-L, 5S-L TE-L, 5E-M U-L, PE-H EB-H

Approved by: HOUSAGE 3/92

Data sheet for Data Point I-4a, Wetland I-4.

I-70/32<sup>nd</sup> and PLOT I-5a

**DATA FORM**  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE ROBERT  
 Applicant/Owner: FELSBURGH HOLT + KILLEUB/CABELLA'S  
 Investigator: NATURAL RESOURCE SERVICES, INC./SCJ

Date: 9/30/05  
 County: JEFFERSON  
 State: COLORADO

Community ID: PEM  
 Transect ID: I  
 Plot ID: I-5a

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.)

Drainage ditch paralleling the south side of SH 58.

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <u>TRIFOLIUM pratense</u>	<u>H 80%</u>	<u>OBL</u>
2. <u>CITRULLUS</u>	<u>H 50%</u>	<u>FACH</u>
3. <u>NOCTUAE</u>	<u>H 60%</u>	<u>OBL</u>
4. <u>LEPIS</u>	<u>H 10%</u>	<u>OBL</u>
5. <u>DIPSACUS</u>	<u>H 50%</u>	<u>NI</u>
6. <u>TRIFOLIUM</u>	<u>H 5%</u>	<u>OBL</u>
7. _____	_____	_____
8. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 4/5 80%

Remarks: Upland banks! B. inermis, Bouteloua gracilis

**SOILS**

Map Unit Name (Soils and Phase): Alda-Niwot complex 0-3% Drainage Class: Saturated  
 Field Observations: Drainage ditch  
 Contour Mapped Type: Y No

Taxonomy (Subgroup): Fluvisolentic Argisols - Typic Argosols

Profile Description	Depth (Inches)	Horizon	Mottled Color (Munsell Moist)	Mottled Color (Munsell Dry)	Mottled Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2" A	10 YR 3/2					SANDY LOAM
2-8" A	10 YR 3/1					SANDY SILT
8+" C						SAND + ROCK

Hydroic Soil Indicators:  
 Histosol  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Clayed or Low-Chroma Colors

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streeding in Sandy Soils  
 Lined on Local Hydroic Soils List  
 Other (Explain in Remarks)

Remarks: Graded during highway construction.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No (Circle)

Wetland Hydrology Present?  Yes  No (Circle)

Hydroic Soils Present?  Yes  No (Circle)

Is this Sampling Point Within a Wetland?  Yes  No (Circle)

Remarks: FUNCTIONS!  
6W-H FA-L  
FA-L YE-L  
SS-L U-L  
SR-H U-L  
N-M  
PE-H  
W-L

Approved by ROUSACE 392

**HYDROLOGY**

Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Aerial Photographs  
 No Recorded Data Available

Field Observations:  
 Depth of Surface Water: 0-10 (in.)  
 Depth to Free Water in Pit: 2 (in.)  
 Depth to Saturated Soil: 1 (in.)

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Water Marks  
 Sediment Deposits  
 Drift Lines  
 Drainage Patterns in Wetlands  
 Secondary Indicators (2 or more required):  
 Plant Communities in Upper 12 Inches  
 Water-Soaked Leaves  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Remarks: Drainage ditch along South side of SH 58, flow from drainage pipe under SH 58.

Data sheet for Data Point I-5a, Wetland I-5.

I-70/32<sup>nd</sup> Ave Plot J-1a

**DATA FORM**  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE ROSS  
 Applicant/Owner: FELSBURGH HOLT + KILLEUB/CABELA'S  
 Investigator: NATURAL RESOURCE SERVICES, INC./SGJ

Date: 9/29/05  
 County: STEFFERSON  
 State: COLORADO

Community ID: PEM/AS  
 Transact ID: J  
 Plot ID: J-1a

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.)

Drainage ditch south of SH 58 frontage road,  
**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <u>Trifolium repens</u>	<u>MS 100</u>	<u>OBL</u>
2. <u>Veronica arvensis</u>	<u>MS 100</u>	<u>OBL</u>
3. <u>Scirpus microcarpus</u>	<u>MS 100</u>	<u>OBL</u>
4. <u>Erigeron annuus</u>	<u>MS 100</u>	<u>OBL</u>
5. <u>Salix exigua</u>	<u>MS 300</u>	<u>OBL</u>
6. <u>Acer negundo</u>	<u>MS 100</u>	<u>FAC</u>
7. <u>Salix exigua</u>	<u>MS 300</u>	<u>OBL</u>
8. <u>Acer negundo</u>	<u>MS 100</u>	<u>FAC</u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 11/11 100%

Remarks:

Map Unit Name: Alto-Nivot Complex, 0-2%  
 (Series and Phase): Fluvioglacetic Amphibols/Typhic Haplochrems  
 Drainage Class: Sarmentat  
 Field Observations: Dr. West 2/11  
 Confirm Mapped Type?  Yes  No

Taxonomy (Subgroup): Fluvioglacetic Amphibols/Typhic Haplochrems  
 Mottles: Common/Abundant  
 Abundance/Contrast: Common/Abundant  
 Structure, etc.: Common/Abundant

Profile Descriptors:  
 (Soils): 0-3" A1 7.5 YR 2.5/4 7.5 YR 6/8  
2-3" A2 7.5 YR 7/1 7.5 YR 7/8  
3-6" A3 7.5 YR 4/1 7.5 YR 7/8  
6-7" A4 7.5 YR 7/1 7.5 YR 7/8  
7-70" B 7.5 YR 4/1

Hydric Soil Indicators:  
 Hirsched  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Cleyed or Low-Chrome Colors

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Lined on Local Hydric Soils List  
 Lined on National Hydric Soils List  
 Other (Explain in Remarks)

Remarks:

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks: FUNCTIONS: 6W-H FA-L FA-M TE-L SR-H N-M PE-L WH-H  
VALUES: R-M G-M U-L U-H EB-H

Approved by: HOUSAGE 3/82

Data sheet for Data Point J-1a, Wetland J-1.

I-70/32<sup>nd</sup> and Plot J-1b

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> Avenue Interchange Project  
 Applicant/Owner: FELSBURGH, HOLT & KILLEN/ CABE LA'S  
 Investigator: NATURAL RESOURCE SERVICES, INC./ SCS

Date: 9/25/05  
 County: COLORADO  
 State: COLORADO

Community ID: Pem/190  
 Transsect ID: J-1b  
 Plot ID: J-1b

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.)

Plot is at edge of drainage ditch just south of Frontage road.

**VEGETATION**

Dominant Plant Species	Height/Structure	Stratum	Indicator
1. <u>Scirpus lasiocarpus</u>	<u>H 50%</u>	<u>OBL</u>	
2. <u>Dioscorea fallax</u>	<u>H 10%</u>	<u>NE</u>	
3. <u>Cirsium arvense</u>	<u>H 10%</u>	<u>FAH</u>	
4. <u>Humulus japonicus</u>	<u>H 30%</u>	<u>FAH</u>	
5. <u>Erigeron phillyria</u>	<u>H 10%</u>	<u>FAH</u>	
6. <u>Trifolium pratense</u>	<u>H 10%</u>	<u>FAH</u>	
7. <u>Trifolium repens</u>	<u>H 10%</u>	<u>FAH</u>	
8. <u>Acer negundo</u>	<u>O/S</u>	<u>FAH</u>	

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 4/6 66.7%

Remarks:

**SOILS**

Map Unit Name (Soils and Phase): Alca-Mist complex 0-2%  
 Soil Series: Alca-Mist  
 Soil Texture: loam, silty  
 Soil Color: 10YR 2.5/1  
 Soil Structure: 10+ "

Soil Description: SANDY SILTY CLAY  
SHALY ROCKY COBBLE

Hydro Soil Indicators:  
 Histosol  
 Solch  
 Solch  
 Acidic Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chroma Colors

Concretions:  
 Concentric  
 Organic  
 Organic Striking in Sandy Soils  
 Listed on Local Hydroic Soils List  
 Listed on National Hydroic Soils List  
 Other (Explain in Remarks)

Remarks: Graded during highway construction.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks:  
FUNCTIONS: H  
FAH-H  
FAH-L  
SS-L  
TE-L  
U-L  
U-L  
PE-M  
ER-H

Approved by: HOUSAUSE 3/03

Data sheet for Data Point J-1b, Wetland J-1.



I-70/32<sup>nd</sup> PLOT J-2a

<p><b>DATA FORM</b> ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)</p>																																					
<p>Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT          Applicant/Owner: FLEISHNER HOLT &amp; KULLIUE/CABELLA'S          Investigator: NATURAL RESOURCE SERVICES, INC./SGJ</p>	<p>Date: 9/29/05          County: STEEPEERSON          State: COLORADO          Community ID: PFO          Transact ID: J          Plot ID: ST-2a</p>																																				
<p>Do Normal Circumstances exist on the site?          Is the site significantly disturbed (Atypical Situation)?          Is the area a potential Problem Area?          (If needed, explain on reverse.)</p> <p style="text-align: center;">Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>          Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>          Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Plot is at the water's edge in drainage ditch.</p>																																					
<p><b>VEGETATION</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dominant Plant Species</th> <th>Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC)</th> <th>Stature</th> <th>Indicator</th> </tr> </thead> <tbody> <tr> <td>1. <i>Aragmites australis</i> H 50% FACW</td> <td></td> <td>OS 2</td> <td>FAC</td> </tr> <tr> <td>2. <i>Dipsacus fullonum</i> H 10% SI</td> <td></td> <td></td> <td>FAC</td> </tr> <tr> <td>3. <i>Cirsium alypsense</i> H 50% FACW</td> <td></td> <td>OS 3</td> <td>FAC</td> </tr> <tr> <td>4. <i>Equisetum arvense</i> H 10% FAC</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5. <i>Silix fragilis</i> MS 50% FAC</td> <td></td> <td></td> <td></td> </tr> <tr> <td>6. <i>Acet. negundo</i> MS 100% FAC</td> <td>8/9 88.9%</td> <td></td> <td></td> </tr> <tr> <td>7. <i>Silix fragilis</i> MS 50% FAC</td> <td></td> <td></td> <td></td> </tr> <tr> <td>8. <i>Silix fragilis</i> MS 50% FAC</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Remarks: Heavy overstory. South bank is almost bare of understorey. North bank is covered by <i>Aragmites</i>.</p>		Dominant Plant Species	Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC)	Stature	Indicator	1. <i>Aragmites australis</i> H 50% FACW		OS 2	FAC	2. <i>Dipsacus fullonum</i> H 10% SI			FAC	3. <i>Cirsium alypsense</i> H 50% FACW		OS 3	FAC	4. <i>Equisetum arvense</i> H 10% FAC				5. <i>Silix fragilis</i> MS 50% FAC				6. <i>Acet. negundo</i> MS 100% FAC	8/9 88.9%			7. <i>Silix fragilis</i> MS 50% FAC				8. <i>Silix fragilis</i> MS 50% FAC			
Dominant Plant Species	Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC)	Stature	Indicator																																		
1. <i>Aragmites australis</i> H 50% FACW		OS 2	FAC																																		
2. <i>Dipsacus fullonum</i> H 10% SI			FAC																																		
3. <i>Cirsium alypsense</i> H 50% FACW		OS 3	FAC																																		
4. <i>Equisetum arvense</i> H 10% FAC																																					
5. <i>Silix fragilis</i> MS 50% FAC																																					
6. <i>Acet. negundo</i> MS 100% FAC	8/9 88.9%																																				
7. <i>Silix fragilis</i> MS 50% FAC																																					
8. <i>Silix fragilis</i> MS 50% FAC																																					
<p><b>HYDROLOGY</b></p> <p>Recorded Date (Describe in Remarks):          Stream, Lake, or Tide Gauge:  <input checked="" type="checkbox"/> Aerial Photographs  <input checked="" type="checkbox"/> Other: Aerial MAP  <input type="checkbox"/> No Recorded Data Available</p> <p>Field Observations:          Depth of Surface Water: 0 (in.)          Depth to Free Water in Pit: 7/2 (in.)          Depth to Saturated Soil: 7/2 (in.)</p> <p>Remarks: Two foot wide drainage ditch. Forested site. Flowing water. Banks steep + 3ft. high to 4ft. high.</p>																																					
<p><b>SOILS</b></p> <p>Moisture Regime: Alder-Niwet complex, 0-2%          Drainage Class: <u>intermediate</u>          Field Observations: <u>Drainage ditch</u>          Confirm Mapped Type: <u>EB</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Profile Description</th> <th>Matrix Color (Munsell Moist)</th> <th>Mottles (Munsell Moist)</th> <th>Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-3" A</td> <td>7.5 YR 5/5</td> <td></td> <td>SANDY CLAY LOAM</td> </tr> <tr> <td>3-6" A</td> <td>7.5 YR 5/4</td> <td>2.5 YR 3/6</td> <td>Common / prominent LOAMY SAND</td> </tr> <tr> <td>6+" B</td> <td>5 YR 6/1</td> <td>2.5 YR 3/6</td> <td>Common / prominent LOAMY SANDY GRAVEL</td> </tr> </tbody> </table> <p>Hydro Soil Indicators:  <input type="checkbox"/> Histosol  <input type="checkbox"/> Histic Epipedon  <input type="checkbox"/> Sulfidic Odor  <input checked="" type="checkbox"/> Aquic Moisture Regime  <input checked="" type="checkbox"/> Redox Conditions  <input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors</p> <p>Concretions:  <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils  <input type="checkbox"/> Organic Streaking in Sandy Soils  <input type="checkbox"/> Listed on Local Hydro Soil List  <input type="checkbox"/> Other (Explain in Remarks)</p> <p>Remarks: Plot is 1 ft. above waterline on steep bank. Graded during highway construction.</p>		Profile Description	Matrix Color (Munsell Moist)	Mottles (Munsell Moist)	Texture, Concretions, Structure, etc.	0-3" A	7.5 YR 5/5		SANDY CLAY LOAM	3-6" A	7.5 YR 5/4	2.5 YR 3/6	Common / prominent LOAMY SAND	6+" B	5 YR 6/1	2.5 YR 3/6	Common / prominent LOAMY SANDY GRAVEL																				
Profile Description	Matrix Color (Munsell Moist)	Mottles (Munsell Moist)	Texture, Concretions, Structure, etc.																																		
0-3" A	7.5 YR 5/5		SANDY CLAY LOAM																																		
3-6" A	7.5 YR 5/4	2.5 YR 3/6	Common / prominent LOAMY SAND																																		
6+" B	5 YR 6/1	2.5 YR 3/6	Common / prominent LOAMY SANDY GRAVEL																																		
<p><b>WETLAND DETERMINATION</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Hydrophytic Vegetation Present?</th> <th>Wetland Hydrology Present?</th> <th>Hydro Soil Present?</th> <th>Is this Sampling Point Within a Wetland?</th> <th>(Circle)</th> </tr> </thead> <tbody> <tr> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> <td>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></td> </tr> </tbody> </table> <p>Remarks: FUNCTIONS: <u>WETLAND</u>          6W-M NA-H R-H          FA-L FA-L EK-M          SS-L TE-L M-L          SR-L V-M          N-L EB-H          PE-M</p> <p>Approved by HOUSACE 3192</p>		Hydrophytic Vegetation Present?	Wetland Hydrology Present?	Hydro Soil Present?	Is this Sampling Point Within a Wetland?	(Circle)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																										
Hydrophytic Vegetation Present?	Wetland Hydrology Present?	Hydro Soil Present?	Is this Sampling Point Within a Wetland?	(Circle)																																	
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																	

Data sheet for Data Point J-2a, Wetland J-2.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**VEGETATION**  
Project Site: I-70/32<sup>nd</sup> Avenue Interchange Project  
Applicant/Owner: FELSNER HOLT + KILLEIP/CABELLA'S  
Investigator: NATARAL RESOURCE SERVICES, INC./SCT  
Date: 9/27/05  
County: STEFFERSD  
State: COLORADO  
Community ID: PRO  
Transsect ID: J  
Plot ID: J-3a  
Do Normal Circumstances exist on the site?  No  
Yes   
Is the site significantly disturbed (Atypical Situation)?  Yes  
Is the area a potential Problem Area?  Yes  
(If needed, explain on reverse.)  
Drainage ditch just south of 5458 frontage road.

**SOILS**  
I-70/32<sup>nd</sup> Plot J-3a  
Map Unit Name: Alca-N, just complex, 0-2%  
(Series and Phase): Alca-N, just complex, 0-2%  
Delineation Class: Somewhat poor  
Field Observations: Drainage ditch  
Taxonomy (Subgroup): Eluagente, Ag, u, s, l, s - Typic Haploreggals  
Confirm Mapped Type: Yes, No  
Profile Descriptions:  
Horizon: A1 7-5R 2.5/1 5R 5/8  
Mentk Color (Munsell Notat): 5R 5/8  
Mentk Abundance/Contrast: FEW/Prominent  
Mentk Structure, etc.: SILT  
Depth (Inches): 0-3"  
Horizon: A2 7-5R 4/1 5R 6/8  
Mentk Color (Munsell Notat): 5R 6/8  
Mentk Abundance/Contrast: FEW/Prominent  
Mentk Structure, etc.: SILTY CLAY  
Depth (Inches): 3-6"  
Horizon: B 16EY 4/0B1  
Mentk Color (Munsell Notat): 16EY 4/0B1  
Mentk Abundance/Contrast: ---  
Mentk Structure, etc.: SILTY CLAY  
Depth (Inches): 6+ "  
Hydris Soil Indicators:  
Histosol   
Gleyed   
Sulfidic   
Sulfidic Color   
Acidic Moisture Regime   
Reducing Conditions   
Gleyed or Low-Chrome Colors   
Concentrations:  
High Organic Content in Surface Layer in Sandy Soils   
Organic Streaking in Sandy Soils   
Listed on Local Hydris Soils List   
Listed on National Hydris Soils List   
Other (Explain in Remarks)   
Remarks: eroded during highway construction.

**WETLAND DETERMINATION**  
Hydrophytic Vegetation Present?  No  Yes  
Wetland Hydrology Present?  No  Yes  
Hydris Soils Present?  No  Yes  
Is this Sampling Point Within a Wetland?  No  Yes  
Remarks: Wetland confined to waterline on south side of ditch, but widens on north side.  
FUNCTIONS: VALUES  
60-H 10A-H 5-M  
5A-M 5H-L 5d-M  
5L-L 7E-L 1-L  
5K-M 1-L  
PE-M  
Approved by: HOUSSACE 3/82

**VEGETATION**  
Dominant Plant Species: Salix fragilis  
Situatum: OS 4 FAC  
1. Cyperus tenuis A 20B NI  
2. Artice alba A 5B FAC  
3. Dipsacus Fullowum H 5B NI  
4. Spha. latifolia H 10B OBL  
5. Stemius intermis A 20B NI  
6. ---  
7. Salix exigua MS 30B OBL  
8. Abies balsamea MS 30B NI  
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 4B 50B  
Remarks:

**HYDROLOGY**  
Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photography  
 No Recorded Data Available  
Field Observations:  
Depth of Surface Water: 0.6" (in.)  
Depth to Free Water in Pit: 12" (in.)  
Depth to Saturated Soil: 4" (in.)  
Remarks: Drainage ditch. Banks steep. Standing water 2 ft wide  
Wetland boundary at waterline on south side + 2ft.  
North of waterline on north side.

**WETLAND DETERMINATION**  
Wetland Hydrology Indicators:  
Primary Indicators:  
 Standing Water in Upper 12 inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
Secondary Indicators (2 or more required):  
 Drainage Patterns in Wetlands  
 Soil Moisture in Upper 12 inches  
 Water-Soaked Leaves  
Local Soil Survey Data  
FAC-Neutral Test  
Other (Explain in Remarks)  
Remarks: Wetland confined to waterline on south side of ditch, but widens on north side.

Data sheet for Data Point J-3a, Wetland J-3.

I-70/32<sup>nd</sup> PLOT J-4a

**DATA FORM**  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE ROBERT  
 Applicant/Owner: FERRIS WALT + KULLING/CABELLA'S  
 Investigator: NATURAL RESOURCE SERVICES, INC./SGJ

Date: 9/29/05  
 County: STEELESDALE  
 State: COLORADO

Community ID: PEM  
 Transsect ID: J  
 Plot ID: J-4a

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.)

Drainage ditch just south of SH 58 frontage road.

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <u>Typha latifolia</u>	<u>H 100%</u>	<u>OOL</u>
2. <u>Sagittaria arifolia</u>	<u>H 30%</u>	<u>NI</u>
3. <u>Ceratium maculatum</u>	<u>H 10%</u>	<u>FAW</u>
4. <u>Ceratium minor</u>	<u>H 20%</u>	<u>OBL</u>
5. <u>Sagittaria polyrrhiza</u>	<u>H 5%</u>	<u>OBL</u>
6. _____	_____	_____
7. <u>Salix exigua</u>	<u>MS 100%</u>	<u>OBL</u>
8. <u>Salix fragilis</u>	<u>OS 2</u>	<u>FAC</u>

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 6/6 100%

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

**SOILS**

Map Unit Name: \_\_\_\_\_  
 (Series and Phase): Aldo-Nipoot complex p-2B  
 Drainage Class: SEMI-DRAINAGE  
 Field Observations: DISPERSED  
 Taxonomy (Subgroup): Fluvisols-Hypstelis-Typic Hypstelis  
 Confirm Mapped Type: CEB-10

Profile Description: \_\_\_\_\_  
 Depth (Inches): \_\_\_\_\_  
 Horizon: \_\_\_\_\_  
 Matrix Color: \_\_\_\_\_  
 Munsell Moist: \_\_\_\_\_  
 Mottle: \_\_\_\_\_  
 Abundance/Contrast: \_\_\_\_\_  
 Texture, Concretions, Structures, etc.: \_\_\_\_\_

0-6" A 75YR 3/2 \_\_\_\_\_  
SILTY CLAY  
 6-8" B 10YR 6/10Y \_\_\_\_\_  
SANDY CLAY  
 8+" C \_\_\_\_\_  
ROCK + GRAVEL

Hydro Soil Indicators:  
 Histosol \_\_\_\_\_  
 Histic Epipedon \_\_\_\_\_  
 Sulfidic Odor \_\_\_\_\_  
 Aquic Moisture Regime \_\_\_\_\_  
 X Layer on National Hydroic Soil List \_\_\_\_\_  
 X Clayed or Low-Chrome Colors \_\_\_\_\_  
 Concretions \_\_\_\_\_  
 High Organic Content in Surface Layer in Sandy Soils \_\_\_\_\_  
 Organic Streaking in Sandy Soils \_\_\_\_\_  
 Lined on National Hydroic Soil List \_\_\_\_\_  
 Other (Explain in Remarks) \_\_\_\_\_

Remarks: graded during highway construction.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  No   
 Wetland Hydrology Present?  No   
 Hydric Soil Present?  No

Is this Sampling Point Within a Wetland? (Circle)  No

Remarks: FRAGMENTED! VALUES: FA-H WA-H R-M, FA-M FH-L EB-M, SS-L TE-L U-L, SS-M V-M, N-M, PE-M, EB-H

Approved by INDUCSCE 3/82

Data sheet for Data Point J-4a, Wetland J-4.

I-70/32<sup>nd</sup> PLOT K-1a

<p><b>DATA FORM</b> ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)</p>	
<p>Project Site: <u>I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT</u>                  Applicant/Owner: <u>FELSMORE HOLT + KULLER/CABELLA'S</u>                  Investigator: <u>NATURAL RESOURCE SERVICES, INC./SGJ</u></p>	<p>Date: <u>7/30/05</u>                  County: <u>STEELESON</u>                  State: <u>COLORADO</u>                  Community ID: <u>PERM</u>                  Transact ID: <u>K</u>                  Plot ID: <u>K-1a</u></p>
<p>Do Normal Circumstances exist on the site?                  Is the site significantly disturbed (Atypical Situation)?                  Is the area a potential Problem Area?                  (If needed, explain on reverse.)</p> <p style="text-align: center;"> <input checked="" type="checkbox"/> No  <input type="checkbox"/> Yes  <input type="checkbox"/> Yes (ND)             </p>	
<p><b>VEGETATION</b>                  SCATTERED DEPRESSIONS IN DRAINAGE DITCH ON NORTH SIDE OF SH 58. DRAINS INTO TUCKER DITCH NORTH OF HIGHWAY.</p>	
<p><b>Dominant Plant Species</b></p> <p>1. <u>Trifolium pratense</u> H 200 OBL                  2. <u>Scirpus viridulus</u> H 50 OBL                  3. <u>Eleocharis palustris</u> H 50 OBL                  4. <u>Sagittaria arifolia</u> H 18 FACW                  5. <u>Scirpus americanus</u> H 50 OBL                  6. <u>Sagittaria arifolia</u> H 200 FACW                  7. <u>Abutilon stramonium</u> H 50 OBL                  8. <u>Cirsium arvense</u> H 100 FACW</p>	<p><b>Dominant Plant Species</b></p> <p>9. <u>Agropyron</u> O3 4 FAC                  10. <u>Agropyron</u> MS 50 FAC                  11. <u>Eragrostis argus</u> MS 10 FAC                  12. <u>Sida sp.</u> MS 100 OBL                  13. _____                  14. _____                  15. _____                  16. _____</p>
<p>Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): _____</p> <p>Remarks: <u>11/2 9/179</u></p>	
<p><b>SOILS</b></p> <p>Map Unit Name (Series and Phase): <u>Alde - Moist complex, 0-2%</u> Drainage Class: <u>Somewhat poor</u>                  Field Observations: <u>Drainage ditch</u>                  Confirm Mapped Type? (Yes) No</p> <p>Taxonomy (Subgroup): <u>Fluvisols</u> Munsell Moisture: _____                  Munsell Moisture: _____                  Munsell Moisture: _____                  Munsell Moisture: _____</p> <p>Profile Description: _____                  Depth (inches): _____                  Horizon: _____                  Matrix Color (Munsell Moist): _____                  Mottles: _____                  Abundance/Contrast: _____                  Texture, Concretions, Structures, etc.: _____</p> <p>0-1" A1 <u>TEYK 4/3</u> <u>SILTY SAND</u>                  1-4" A2 <u>LEKY 4/2</u> <u>SILTY SAND</u>                  4-10" A3 <u>LEKY 6/0</u> <u>SANDY CLAY</u>                  10+ " C _____ <u>FRANSEL + SAND</u></p> <p>Hydric Soil Indicators:                  Histosol _____                  Histosol Epipedon _____                  Sulfidic Odor _____                  Aquic Moisture Regime _____                  Listed on National Hydric Soils List _____                  Reducing Conditions _____                  Gleyed or Low-Chroma Colors _____                  Concretions _____                  High Organic Content in Surface Layer in Sandy Soils _____                  Organic Streaking in Sandy Soils _____                  Listed on Local Hydric Soils List _____                  Listed on National Hydric Soils List _____                  Other (Explain in Remarks) _____</p> <p>Remarks: <u>GRAVELS DRAINAGE HIGHWAY CONSTRUCTION.</u></p>	
<p><b>HYDROLOGY</b></p> <p>Recorded Date (Describe in Remarks): _____                  Stream, Lake, or Tide Gauge _____                  Aerial Photograph _____                  No Required Data Available _____</p> <p>Field Observations:                  Depth of Surface Water: <u>0-8</u> (in.)                  Depth to First Water in Pit: <u>1</u> (in.)                  Depth to Saturated Soil: <u>0</u> (in.)</p> <p>Remarks: <u>Highway drainage ditch. Drains into Tucker Ditch.</u></p>	
<p><b>WETLAND DETERMINATION</b></p> <p>Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                  Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Remarks: <u>ROADSIDE DRAINAGE DITCH NORTH OF SH 58.</u>  <u>EXACT POS: 60-H WA-L, 60-L FA-L, 53-L TE-L, 50-M, 51-L, PE-L</u></p> <p>Approved by HOUSAGE 382</p>	

Data sheet for Data Plot K-1a, Wetland K-1.

I-70/32<sup>nd</sup> Plot K-2a

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Applicant/Owner: RESURFACING CONTRACTORS  
 Investigator: ANTHONY RESURFACING, INC. / SCJ

Date: 9/30/05  
 County: STEELE CO  
 State: COLORADO

Community ID: PFO  
 Transect ID: K  
 Plot ID: K-2a

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.)  
Drainage ditch, Wetland 3-4 ft wide.

**VEGETATION**

Dominant Plant Species	Size/Height	Indicator	Status	Indicator
1. <u>Cirsium arvense</u>	<u>H 300</u>	<u>FAC</u>		
2. <u>Typical Wetland</u>	<u>H 400</u>	<u>OBL</u>		
3. <u>Lemna minor</u>	<u>H 100</u>	<u>OBL</u>		
4. <u>Spiridula sp.</u>	<u>H 100</u>	<u>OBL</u>		
5. <u>Asclepias speciosa</u>	<u>H 100</u>	<u>FAC</u>		
6. _____	_____	_____		
7. <u>Solidago</u>	<u>MS 200</u>	<u>OBL</u>		
8. _____	_____	_____		

Percent of Dominant Species that are OBL, FAC or FOC (excluding FAC): 7/8 87.5%

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

**SOILS**

Map Unit Name: \_\_\_\_\_  
 (State and Phase): Alda-Ninet Complex, 10-2%  
 Drainage Class: Somewhat poor  
 Field Observations: DRY/SCALY  
 Confirm Mapped Type?  Yes  No

Taxonomy (Subgroup): Entic Anthropic Hydric Ust-Typic Argic Ustolls  
 Soil Name: \_\_\_\_\_  
 Soil Series: \_\_\_\_\_  
 Soil Texture: \_\_\_\_\_  
 Soil Structure: \_\_\_\_\_

Profile Description	Moisture Regime	Moisture	Texture, Concretions, Structure, etc.
0-4" A	7.5 NR 3/2	-	SILT
4-8" B	1.6E1 4/6	-	SANDY CLAY
8+" C	-	-	SAND + GRAVEL

Hydric Soil Indicators:  
 Histosols  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chrome Colors

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Lined on Local Hydric Soils List  
 Other (Explain in Remarks)

Remarks: GRADED DRAINAGE HIGHWAY CONSTRUCTION,

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks: DRAINAGE DITCH NORTH OF SH 58,  
FUNCTIONAL!  
6W-H FA-L  
FA-L FA-L  
SS-L TE-L  
SS-L  
SC-M  
N-M  
PE-M  
WH-M

Approved by HOUSAGE 3192

**HYDROLOGY**

Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other NOI MAP  
 No Recorded Data Available

Field Observations:  
 Depth of Surface Water: 0-4 (in.)  
 Depth to Free Water in Pit: 1 (in.)  
 Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Inundated  
 Water Marks  
 Sediment Deposits  
 Drift Lines  
 Drainage Patterns in Wetlands  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 Inches  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Remarks: DRAINAGE DITCH ON NORTH SIDE OF SH 58.

Data sheet for Data Plot K-2a, Wetland K-2.

I-70/32<sup>nd</sup> PLOT K-2b

<p><b>DATA FORM</b> <b>ROUTINE WETLAND DETERMINATION</b> (1987 COE Wetlands Delineation Manual)</p>																																	
<p>Project Site: <u>I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT</u>          Applicant: <u>FELSMORE HUNT &amp; MILLER/CABELLA'S</u>          Investigator: <u>ADRIAN RESNORE SERVICES, INC./SGJ</u></p> <p>Date: <u>5/30/05</u>          County: <u>STEELE</u>          State: <u>COLORADO</u></p> <p>Community ID: <u>PEM</u>          Transsect ID: <u>K</u>          Plot ID: <u>K-2b</u></p> <p>Do Normal Circumstances exist on the site?          Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>          Is the site significantly disturbed (Atypical Situation)?          Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>          Is the area a potential Problem Area?          Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>          (If needed, explain on reverse.)</p> <p><u>Roadside drainage ditch north of SH 58, plowout water.</u></p>	<p><b>SOILS</b></p> <p>Map Unit Name (State and Phase): <u>Albino-Niant complex, 0-2%</u> Drainage Class: <u>Sandy loam</u>          Field Observations: <u>Drainage Class</u>          Taxonomy (Subgroup): <u>Fluvisols, Typic Fluvisols</u> Confirm Mapped Type: <u>RPB</u> No</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Profile Description</th> <th>Depth (cm)</th> <th>Horizon</th> <th>Munsell Moisture</th> <th>Munsell Color</th> <th>Moisture</th> <th>Abundance/Contrast</th> <th>Texture, Concretions, Structures, etc.</th> </tr> <tr> <td></td> <td>0-3"</td> <td>A</td> <td>7.5YR 2.5/1</td> <td></td> <td></td> <td></td> <td>SANDY LOAM</td> </tr> <tr> <td></td> <td>3-9"</td> <td>B</td> <td>10YR 4/1</td> <td></td> <td></td> <td></td> <td>SANDY CLAY</td> </tr> <tr> <td></td> <td>9-14"</td> <td>C</td> <td></td> <td></td> <td></td> <td></td> <td>SAND + GRAVEL</td> </tr> </table> <p>Hydric Soil Indicators:  <input type="checkbox"/> Histead  <input type="checkbox"/> Histic Epimudon  <input type="checkbox"/> Sulfidic Odor  <input checked="" type="checkbox"/> Aquic Moisture Regime  <input checked="" type="checkbox"/> Reducing Conditions  <input checked="" type="checkbox"/> Cleyed or Low-Chroma Colors</p> <p>Concretions:  <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils  <input type="checkbox"/> Organic Streaking in Sandy Soils  <input type="checkbox"/> Listed on Local Hydric Soils List  <input type="checkbox"/> Listed on National Hydric Soils List  <input type="checkbox"/> Other (Explain in Remarks)</p> <p>Remarks: <u>GRADED DRAINAGE HIGHWAY CONSTRUCTION.</u></p>	Profile Description	Depth (cm)	Horizon	Munsell Moisture	Munsell Color	Moisture	Abundance/Contrast	Texture, Concretions, Structures, etc.		0-3"	A	7.5YR 2.5/1				SANDY LOAM		3-9"	B	10YR 4/1				SANDY CLAY		9-14"	C					SAND + GRAVEL
Profile Description	Depth (cm)	Horizon	Munsell Moisture	Munsell Color	Moisture	Abundance/Contrast	Texture, Concretions, Structures, etc.																										
	0-3"	A	7.5YR 2.5/1				SANDY LOAM																										
	3-9"	B	10YR 4/1				SANDY CLAY																										
	9-14"	C					SAND + GRAVEL																										
<p><b>VEGETATION</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dominant Plant Species</th> <th>Stratum</th> <th>Indicator</th> </tr> </thead> <tbody> <tr> <td>1. <u>Typus latifolius</u></td> <td><u>H 50</u></td> <td><u>OBL</u></td> </tr> <tr> <td>2. <u>Phalaris arundinacea</u></td> <td><u>A 50</u></td> <td><u>FACW</u></td> </tr> <tr> <td>3. <u>Solidago nemoralis</u></td> <td><u>A 100</u></td> <td><u>OBL</u></td> </tr> <tr> <td>4. <u>Asplenium platyneuron</u></td> <td><u>H 400</u></td> <td><u>OBL</u></td> </tr> <tr> <td>5. <u>Cyperus tenuis</u></td> <td><u>H 400</u></td> <td><u>UI</u></td> </tr> <tr> <td>6. <u>Urtica dioica</u></td> <td><u>H 400</u></td> <td><u>OBL</u></td> </tr> <tr> <td>7. <u>Urtica dioica</u></td> <td><u>H 400</u></td> <td><u>OBL</u></td> </tr> <tr> <td>8. <u>Scirpus microcarpus</u></td> <td><u>H 300</u></td> <td><u>OBL</u></td> </tr> </tbody> </table> <p>Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): <u>10/10 100%</u></p> <p>Remarks:</p>		Dominant Plant Species	Stratum	Indicator	1. <u>Typus latifolius</u>	<u>H 50</u>	<u>OBL</u>	2. <u>Phalaris arundinacea</u>	<u>A 50</u>	<u>FACW</u>	3. <u>Solidago nemoralis</u>	<u>A 100</u>	<u>OBL</u>	4. <u>Asplenium platyneuron</u>	<u>H 400</u>	<u>OBL</u>	5. <u>Cyperus tenuis</u>	<u>H 400</u>	<u>UI</u>	6. <u>Urtica dioica</u>	<u>H 400</u>	<u>OBL</u>	7. <u>Urtica dioica</u>	<u>H 400</u>	<u>OBL</u>	8. <u>Scirpus microcarpus</u>	<u>H 300</u>	<u>OBL</u>					
Dominant Plant Species	Stratum	Indicator																															
1. <u>Typus latifolius</u>	<u>H 50</u>	<u>OBL</u>																															
2. <u>Phalaris arundinacea</u>	<u>A 50</u>	<u>FACW</u>																															
3. <u>Solidago nemoralis</u>	<u>A 100</u>	<u>OBL</u>																															
4. <u>Asplenium platyneuron</u>	<u>H 400</u>	<u>OBL</u>																															
5. <u>Cyperus tenuis</u>	<u>H 400</u>	<u>UI</u>																															
6. <u>Urtica dioica</u>	<u>H 400</u>	<u>OBL</u>																															
7. <u>Urtica dioica</u>	<u>H 400</u>	<u>OBL</u>																															
8. <u>Scirpus microcarpus</u>	<u>H 300</u>	<u>OBL</u>																															
<p><b>WETLAND DETERMINATION</b></p> <p>Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> No <input type="checkbox"/> (Circle)          Wetland Hydrology Present? <input checked="" type="checkbox"/> No <input type="checkbox"/>          Hydric Soils Present? <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is this Sampling Point Within a Wetland? <input checked="" type="checkbox"/> No <input type="checkbox"/> (Circle)</p> <p>Remarks: <u>DRAINAGE DITCH ON NORTH SIDE OF SH 58.</u></p> <p>FUNCTIONS:  <u>6W-H FH-L</u>  <u>FA-L TE-L</u>  <u>SS-L</u>  <u>SR-A</u>  <u>U-A</u>  <u>PE-M</u>  <u>WA-M</u>  <u>EB-M</u></p> <p>VALUES:  <u>K-L</u>  <u>EA-L</u>  <u>H-L</u>  <u>U-M</u>  <u>EB-M</u></p> <p>Approved by: <u>THOUSAND 3192</u></p>																																	
<p><b>HYDROLOGY</b></p> <p>Recorded Data (Describe in Remarks):  <input checked="" type="checkbox"/> Stream, Lake, or Tide Gauge  <input checked="" type="checkbox"/> Aerial Photographs  <input checked="" type="checkbox"/> Other <u>NADP MRP</u>  <input type="checkbox"/> No Recorded Data Available</p> <p>Field Observations:          Depth of Surface Water: <u>0-4</u> (in.)          Depth to Free Water in Pit: <u>1</u> (in.)          Depth to Saturated Soil: <u>0</u> (in.)</p> <p>Wetland Hydrology Indicators:          Primary Indicators:  <input checked="" type="checkbox"/> Redox Potential in Upper 12 inches  <input checked="" type="checkbox"/> Water Marks  <input checked="" type="checkbox"/> Drift Lines  <input checked="" type="checkbox"/> Sediment Deposits          Secondary Indicators (2 or more required):  <input checked="" type="checkbox"/> Drainage Patterns in Wetlands  <input checked="" type="checkbox"/> Width of Flow Channels in Upper 12 inches  <input checked="" type="checkbox"/> Wetland Soil Colors  <input checked="" type="checkbox"/> Local Soil Survey Data  <input type="checkbox"/> FAC-Neutral Test  <input type="checkbox"/> Other (Explain in Remarks)</p> <p>Remarks: <u>Roadside drainage ditch. 5' wide, Wetland is 20' wide. Extends onto road shoulder.</u></p>																																	

Data sheet for Data Plot K-2b, Wetland K-2.

I-70/32<sup>nd</sup> Plot K-3a

**DATA FORM**  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project/Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Applicant/Owner: LEASABLE HALL + WILSON/CAGELA'S  
 Investigator: MICHAEL RESOURCE SERVICES, INC./JSSJ

Date: 9/30/05  
 County: JEFFERSON  
 State: COLORADO

Community ID: PEM/SSS  
 Transsect ID: K-3  
 Plot ID: K-3a

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.)

**VEGETATION**  
ISOLATED PERCHED WETLAND ON TERRACE ABOVE WETLAND K-2 TO NORTH.

Dominant Plant Species	% COVER	Indicator	Stratum	Indicator
1. TRIFOLIUM LUTEOLE	100%	H	OBL	
2. SCIRPUS VALLIDUS	20%	H	OBL	
3. SALIX EXIMA	50%	M	OBL	
4. SPARGANUS DELTOIDES	0%	FAC		
5. ULMUS PARVIFLORA	0%	M		

Percent of Dominant Species that are OBL, FAC or FAC (excluding FAC): 4/4 100%

Remarks:

Map Unit Name (State and Phase): ALA-W/NOT COMPLEX, O-2%  
 Drainage Class: SEMIARID POOR  
 Field Observations: TYPICAL  
 Taxonomy (Subgroup): ZEAUCHONOTIC AMPELIDACEAE, HELIANTHUS, HELIANTHUS Confirm Mapped Type? (Yes) No

Profile Designation: Mottled Colors (Mammal Moist) Mottled Abundance/Contrast Texture, Concretions, Structures, etc.  
 Depth: 0-2 A 7.5XK2.5/1 SANDY LOAM  
 2-B+ B 1.4LY 4/4 SANDY CLAY

**SOILS**

Hydric Soil Indicators:  
 Histosol  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Gleyed or Low-Chrome Colors

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Listed on Local Hydric Soils List  
 Listed on National Hydric Soils List  
 Other (Explain in Remarks)

Remarks:

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  YES  NO (Circle)  
 Wetland Hydrology Present?  YES  NO (Circle)  
 Hydric Soils Present?  YES  NO (Circle)

Is this Sampling Point Within a Wetland?  YES  NO (Circle)

Remarks: PERCHED ISOLATED DEPRESSION, 6' ROUND SEEPAGE ON HILL SIDE.

Approved by HOUSEKE 3/12

**HYDROLOGY**

Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 No Recorded Data Available

Field Observations:  
 Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 2 (in.)  
 Depth to Saturated Soil: 0 (in.)

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Saturated in Upper 12 inches  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Secondary Indicators (12 inches required):  
 Drainage Patterns in Wetlands  
 Oxidized Root Channels in Upper 12 inches  
 Water-Soaked Leaves  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Remarks: HYDROLOGY FROM 6' ROUND SEEPAGE, ISOLATED DEPRESSION.

Data sheet for Data Plot K-3a, Wetland K-3.

I-70/32<sup>nd</sup> PLOT K-4a

**DATA FORM**  
ROUTINE WETLAND DETERMINATION  
(1987 COE Wetlands Delineation Manual)

Project/Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE PROJECT  
 Applicant/Owner: EGSBUREAU, TALLENTINE, CABRERA S  
 Investigator: NATURAL RESOURCE SERVICES, INC. JSC

Date: 9/30/05  
 County: SHERKSD  
 State: COLORADO

Community ID: PBA/AS  
 Transect ID: K-4  
 Plot ID: K-4a

Do Normal Circumstances exist on the site?  No  
 Is the site significantly disturbed (Atypical Situation)?  Yes  
 Is the area a potential Problem Area?  Yes  
 (If needed, explain on reverse.)

**VEGETATION**

Dominant Plant Species	% COVER	Stratum	Indicator
1. <i>TYPHA LATIFOLIA</i>	95%	A	OBL
2. <i>SAGITTARIA</i>	5%	A	OBL
3. _____	_____	_____	_____
4. <i>SALIX ELAEAGNIFOLIA</i>	40%	M/S	OBL
5. _____	_____	_____	_____
6. <i>POTAMOGETON</i>	0%	FAC	_____
7. <i>ALGAE</i>	0%	MI	_____
8. _____	_____	_____	_____

Percent of Dominant Species that are OBL, FAC or FAC (excluding FAC): 4/4, 100%

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

**SOILS**

Moisture Regime: Ustic  
 Drainage Class: SPATEMATIC BWR  
 Field Observations Confirm Mapped Type?  Yes  No

Taxonomy (Subgroup): ENTHANTHIC AHAENTHIC - AHAENTHIC  
 Profile Name: \_\_\_\_\_  
 Profile Depth (inches): 0-3  
 Matrix Color (Munsell Moist): 7.5YR 2.5/1  
 Horizon: 0  
 Mottling: \_\_\_\_\_  
 Abundance/Contrast: \_\_\_\_\_  
 Texture, Concretions, Structure, etc.: SANDY LOAM  
2-2H 0 1 6EY 4/0  
SANDY CLAY

Hydro Soil Indicators:  
 Histosol  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Mottling  
 Clay or Low-Chroma Colors

Concretions:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Listed on National Wetland Inventory  
 Other (Explain in Remarks)

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

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks: PERCHED ISOLATED DEPRESSION, HILLSIDE SEEPAGE ON TERRACE.

Approved by: NDUSACE 3/92

Data sheet for Data Plot K-4a, Wetland K-4.



**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

**Project Site:** I-70/32<sup>nd</sup> Avenue Interchange Project  
**Applicant/Owner:** FURNACE MOUNT KILLEN/CABELLA'S  
**Investigator:** NATURAL RESOURCE SERVICES, INC./SGJ

**Date:** 9/26/05  
**County:** STEFFERSON  
**State:** COLORADO

**Community ID:** PSS  
**Transsect ID:** 1  
**Plot ID:** L-1a

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.)  
Bayou Ditch north of plots C-1 through C-7.

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. <i>Phalaris arundinacea</i>	H	SB
2. <i>Solidago canadensis</i>	H	SB
3. <i>Dioscorea ellingtonii</i>	H	NI
4. <i>Sagittaria</i>	M	SB
5. <i>Salix caprea</i>	M	SB
6. <i>Alnus incana</i>	S	NI
7. <i>Alnus glutinosa</i>	S	NI

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): 2/3 66.7%

Remarks:

**SOILS**

Map Unit Name: I-70/32<sup>nd</sup> Plot L-1a  
(Series and Phase): Tortiflavents, very gravelly 0-3B  
Soils Class: Excessive  
Field Observations: High Organic Matter in Plot  
Confirm Mapped Type?  Yes  No

Profile Description:	Moisture Regime	Moisture Abundance/Contrast	Texture, Concretions, Structures, etc.
0-12+ Mottled Mottled Mottled			SANDY GRAVEL

Hydric Soil Indicators:  
 Histosols  
 Histic Epipedon  
 Sulfidic Odor  
 Rupture Regions  
 Rupture Conditions  
 Gleyed or Low-Chrome Colors  
 Concretions  
 High Organic Content in Surface Layer in Sandy Soils  
 Shrinking in Sandy Soils  
 Listed on Local Hydric Soils List  
 Listed on National Hydric Soils List  
 Other (Explain in Remarks)

Remarks: steep bank of irrigation ditch.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
Soils that are Hydric Present?  Yes  No  
Is this Sampling Point Within a Wetland?  Yes  No

FUNCTIONS:  
 EW-L FH-L  
 FA-L TE-L  
 SS-L  
 SR-L  
 N-L  
 PE-L  
 WE-H

VALUES:  
 R-L  
 EB-L  
 U-L  
 V-L  
 EB-H

Remarks: Irrigation ditch.  
(Bayou Ditch)  
Wetland is very narrow strip along water-line of ditch.

Approved by REGISAR 3/93

**HYDROLOGY**

Recorded Data Describe in Remarks:  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other: MAP  
 No Recorded Data Available

Wetland Hydrology Indicators:  
**Primary Indicators:**  
 Stream, Lake, or Tide Gauge  
 Water Marks  
 Drift Lines  
 Sediment Deposits  
 Drainage Patterns in Wetlands  
**Secondary Indicators (2 or more required):**  
 Water Marks in Upper 12 Inches  
 Water-Soaked Leaves  
 Local Soil Survey Data  
 FAC-Neutral Test  
 Other (Explain in Remarks)

Field Observations:  
 Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 1 (in.)  
 Depth to Saturated Soil: 2 (in.)

Remarks: Irrigation ditch with very steep sides - wetland is very narrow along water-line.

Data sheet for Data Plot L-1a, Wetland L-1. Bayou (Bayou) Ditch.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

Project/Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE  
 Applicant/Owner: FERROVIAL HZT & VILLOUVE CABRERA'S  
 Investigator: NATURAL RESOURCE SERVICES, INC./SSC

Date: 1/14/06  
 County: JEFFERSON  
 State: COLORADO

Community ID: ASS  
 Transect ID: M  
 Plot ID: M-1a

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.) ROADSIDE DRAINAGE DITCH!

**VEGETATION**

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. <u>RAYNOUSIA LARICINUM</u>	<u>100%</u>	<u>OBL</u>	9. _____	_____	_____
2. <u>PHALARIS ARUNDINACEA</u>	<u>H</u>	<u>5B</u>	10. _____	_____	_____
3. <u>DIPSACUS PHLOIDUM</u>	<u>H</u>	<u>5B</u>	11. _____	_____	_____
4. _____	_____	_____	12. _____	_____	_____
5. <u>SALIX ELIASHA</u>	<u>MIS</u>	<u>50%</u>	13. _____	_____	_____
6. <u>ALPHIS PHYLLO</u>	<u>MIS</u>	<u>1B</u>	14. _____	_____	_____
7. _____	_____	_____	15. _____	_____	_____
8. _____	_____	_____	16. _____	_____	_____

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACD): 3/3 100%

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

**HYDROLOGY**

Recorded Data (Describe in Remarks):  
 Stream, Lake, or Tide Gauge  
 Aerial Photographs  
 Other \_\_\_\_\_  
 No Recorded Data Available \_\_\_\_\_

Field Observations:  
 Depth of Surface Water: 0 (in.)  
 Depth to Free Water in Pit: 7/2 (in.)  
 Depth to Saturated Soil: 7/2 (in.)

Remarks: ROADSIDE DRAINAGE DITCH FOR RANOFF FROM ROW.  
50 FT X 2FT.

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Inundated  
 Saturated in Upper 12 Inches  
 Water Marks  
 Soil Water Deposits  
 Drainage Patterns in Wetlands  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 inches  
 Water-Stained Leaves  
 Lack of Soil Survey Data  
 Other (Explain in Remarks) \_\_\_\_\_

**SOILS**

Map Unit Name: \_\_\_\_\_  
 Series and Phase: ALBA-NIJUST COMPLEX, D-2%  
 Drainage Class: SOMEWHAT POOR  
 Field Observations: DRAINAGE DITCH  
 Confirm Mapped Type?  Yes  No

Taxonomy (Subgroup): FLUVAQUENTIC, ARELUSTOLLS-TIC, ARELUSTOLLS-TIC

Profile Designation	Horizon	Mottles Color (Munsell Moist)	Mottles Color (Munsell Moist)	Mottles Abundance/Contrast	Texture, Concretions, Structures, etc.
<u>0-10</u>	<u>A</u>	<u>7.5YR 2.5/1</u>	_____	_____	<u>SHADY SILTY CLAY</u>
<u>10-4</u>	<u>B</u>	<u>7.5YR 2.5/1</u>	_____	_____	<u>SILTY ROCKY COBBLE</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Hydric Soil Indicators:  
 Histosol  
 Histic Epipedon  
 Sulfidic Odor  
 Aquic Moisture Regime  
 Reducing Conditions  
 Clayed or Ultrachrome Colors

Concretions  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Listed on Local Munsell Hydric Soils List  
 Listed on National Hydric Soils List  
 Other (Explain in Remarks) \_\_\_\_\_

Remarks: GRADED DURING PREVIOUS HIGHWAY CONSTRUCTION.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No  
 Wetland Hydrology Present?  Yes  No  
 Hydric Soils Present?  Yes  No

Is this Sampling Point Within a Wetland?  Yes  No

Remarks: ROADSIDE DRAINAGE DITCH WHICH EMPTIES INTO THE CRY ON (GRAVIM) IRRIGATION DITCH.

FUNCTIONS: 6W-1A 1W-1L R-1L  
6A-1L 1A-1L 1L-1L  
5S-1L 7E-1L 11-1L  
3R-1L 11-1L 11-1L  
1E-1L 1E-1L

VALUES: \_\_\_\_\_

Approved by: HOUSAGE 3182

Data sheet for Data Plot M-1a, Wetland M-1.

**DATA FORM**  
**ROUTINE WETLAND DETERMINATION**  
(1987 COE Wetlands Delineation Manual)

Project Site: I-70/32<sup>nd</sup> AVENUE INTERCHANGE  
 Applicant/Owner: FERGUSON HOLDING CORP / CABELAS  
 Investigator: ANITA R. RESORCE SERVICES, INC. / SCS  
 Date: 1/14/06  
 County: JEFFERSON  
 State: COLORADO  
 Community ID: PEA  
 Transect ID: N  
 Plot ID: N-1a  
 Yes  No  Normal Circumstances exist on the site?  
 Yes  No  Is the site significantly disturbed (Atypical Situation)?  
 Yes  No  Is the area a potential Problem Area?  
 (If needed, explain on reverse.) ROADSIDE DRAINAGE DITCH

**VEGETATION**

Dominant Plant Species	Stratum	Indicator
1. DIPERACIS FULCROMA	H	DOB OBL
2. TRIFOLIA LATIFOLIA	A	DOB OBL
3. SPIRODELA POLYTRICHA	H	DOB OBL
4. LEMNA MINOR	H	DOB OBL
5. C. LESYUM ARVENSE	H	DOB OBL
6. SPARGANIUM ANGUSTIFOLIUM	H	DOB OBL
7. SCIRPUS AMERICANUS	H	DOB OBL
8. VETIVERIA AMERICALIS	H	DOB OBL
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 7/9 77.8%		

Remarks: GRADED DRAINAGE HIGHWAY CONSTRUCTION.

**HYDROLOGY**

Recorded Data (Describe in Remarks):  
 Aerial Photographs  
 Other  
 No Recorded Data Available

Wetland Hydrology Indicators:  
 Primary Indicators:  
 Inundated  
 Saturated in Upper 12 inches  
 Water Marks  
 Soil Line Deposits  
 Secondary Indicators (2 or more required):  
 Oxidized Root Channels in Upper 12 inches  
 Water-Stained Leaves  
 Local Soil Survey Data  
 Other (Explain in Remarks)

Field Observations:  
 Depth of Surface Water: 0-10" (in.)  
 Depth to Free Water in Pit: 0 (in.)  
 Depth to Saturated Soil: 0 (in.)  
 Remarks: DRAINAGE DITCH, OPEN DITCH CONNECTING TWO UNDERPASS CHUVERTS IN I-70/32<sup>nd</sup> AVENUE INTERCHANGE. DRAINS ROW INTO HOLDING ROAD TO NORTH.

**SOILS**

Map Unit Name: I-70/32<sup>nd</sup> AVENUE - PLOT N-1a  
 Drainage Class: SOILWATER POOR  
 Soil Order: ORTHENTIC  
 Soil Type: ORTHENTIC

Soil Profile (Soil Depth): EMERALDITE-HAPLUSTOLL-TYPIC ARAPOALUS Confirm Mapped Type?  Yes  No

Profile Description:	Moisture Regime	Moisture Abundance/Contrast	Texture, Concentrations, Structure, etc.
0-2 A	7.5 YR 2.5/1	-	SANDY LOAM
2-3 B	1 6EY 4/1	-	SANDY ROCKY CLAY

Hydric Soil Indicators:  
 Histosol  
 Solic Epipedon  
 Spodic Soil Color  
 X Acid Moisture Regime  
 X Reducing Conditions  
 X Gleyed or Low-Chroma Colors

Concentrations:  
 High Organic Content in Surface Layer in Sandy Soils  
 Organic Streaking in Sandy Soils  
 Listed on Local Hydric Soils List  
 Listed on National Hydric Soils List  
 Other (Explain in Remarks)

Remarks: GRADED DRAINAGE HIGHWAY CONSTRUCTION.

**WETLAND DETERMINATION**

Hydrophytic Vegetation Present?  Yes  No (Circle)  
 Wetland Hydrology Present?  Yes  No (Circle)  
 Hydric Soils Present?  Yes  No (Circle)

Is this Sampling Point Within a Wetland?  Yes  No (Circle)

Remarks: DRAINAGE DITCH CONNECTING TWO BURIED CHUVERTS IN ROW OF I-70/32<sup>nd</sup> AVENUE INTERCHANGE ON NORTH SIDE OF I-70. FUNCTIONS: PA-H, PA-L, PA-L, SS-L, SR-L, TE-L, A-L, A-L, A-L, A-L.

Approved by ROUSACE 3892

Data sheet for Data Plot N-1a, Wetland N-1.