

**WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region**

Project/Site: Rocky Flats Site City/County: Jefferson Sampling Date: 8/26/15  
 Applicant/Owner: DOE State: CO Sampling Point: WOMP0C-B  
 Investigator(s): Jody Nelson Section, Township, Range: T2S, R30W, Sec 13 (97)  
 Landform (hillslope, terrace, etc.): stream ledge Local relief (concave, convex, none): Concave Slope (%): 1-2  
 Subregion (LRR): G Lat: 747268.1169 Long: 2089561.6092 Datum: NAD27  
 Soil Map Unit Name: NA NWI classification: NA  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.**

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks: <u>Column installed as part of Flume installation. Area has washed out &amp; created a pool in stream.</u>	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: <u>wetland</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>POANI</u>	<u>25</u>	<u>Y</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>4</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
4. _____	_____	_____	_____	<b>Prevalence Index worksheet:</b>
<u>25</u> = Total Cover				Total % Cover of: _____ Multiply by: _____
<b>Sapling/Shrub Stratum (Plot size: <u>wetland</u>)</b>				OBL species _____ x 1 = _____
1. <u>AmFR1</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	FACW species _____ x 2 = _____
2. <u>POANI</u>	<u>2</u>	_____	<u>FACW</u>	FAC species _____ x 3 = _____
3. _____	_____	_____	_____	FACU species _____ x 4 = _____
4. <u>50 = 26</u>	_____	_____	_____	UPL species _____ x 5 = _____
5. <u>20 = 10.4</u>	_____	_____	_____	Column Totals: _____ (A) _____ (B)
<u>52</u> = Total Cover				Prevalence Index = B/A = _____
<b>Herb Stratum (Plot size: <u>wetland</u>)</b>				<b>Hydrophytic Vegetation Indicators:</b>
1. <u>POMO1</u>	<u>8</u>	<u>Y</u>	<u>OBL</u>	<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
2. <u>RUCR1</u>	<u>&lt;1</u>	_____	<u>FAC</u>	<input checked="" type="checkbox"/> 2 - Dominance Test is >50%
3. <u>AGCA1</u>	<u>&lt;1</u>	_____	<u>FAC</u>	<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup>
4. <u>AGST1</u>	<u>4</u>	<u>Y</u>	<u>FAC</u>	<input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
5. <u>COCA1</u>	<u>&lt;1</u>	_____	<u>UPL</u>	<input type="checkbox"/> 5 - Wetland Non-Vascular Plants <sup>1</sup>
6. <u>ECCR1</u>	<u>&lt;1</u>	_____	<u>FAC</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
7. <u>POCO1</u>	<u>&lt;1</u>	_____	<u>FACU</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. <u>50 = 6.625</u>	_____	_____	_____	
11. <u>20 = 2.65</u>	_____	_____	_____	
<u>13.25</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: _____)</b>				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ = Total Cover				
<b>% Bare Ground in Herb Stratum <u>60-70</u></b>				
Remarks: <u>&lt;1 = 0.25%</u>				

**SOIL**

Sampling Point: WOMP0C-B

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.      <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Loamy Mucky Mineral (F1) (except MLRA 1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

- 2 cm Muck (A10)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**

Type: \_\_\_\_\_  
Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

**Remarks:**

*Not done. Mitigation area. Wetland hydrology + hydrophytic veg present. Hydric soils presumed developing or present.*

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)

- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Surface Soil Cracks (B6)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)
- Salt Crust (B11)
- Aquatic Invertebrates (B13)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres along Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Stunted or Stressed Plants (D1) (LRR A)
- Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
- Drainage Patterns (B10)
- Dry-Season Water Table (C2)
- Saturation Visible on Aerial Imagery (C9)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- FAC-Neutral Test (D5)
- Raised Ant Mounds (D6) (LRR A)
- Frost-Heave Hummocks (D7)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Saturation Present? (includes capillary fringe) Yes  No  Depth (inches): \_\_\_\_\_

Wetland Hydrology Present? Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

*Stream gauge + wetland water level data show area flowing - Spring + summer with a couple of weeks ago.*

**Wetland Qualitative Revegetation Evaluation Form**

Form # \_\_\_\_\_

Date 8/26/15

Observer(s) Joy Nelson

Location ID Womloc-B

Photographs taken today? Y  N  taken earlier

Are desired wetland plant species present?  Y  N

Are there any issues regarding the establishment of the desired wetland species? Explain, if so.

yes - much of area has been blown out by high flow volumes - now a pool area w/ rocky bottom

Are the hydrologic conditions appropriate for successful establishment and sustainability of the wetland. If not, describe the problem/issue.

yes - see above

**Woody Plant Counts**

Species	Stem Count	Height			Width		
		1	2	3	1	2	3
AMFR1	12	3'	3'	3'	4'	4'	6'
POAN1	1	5'			4'		
↓ large overhanging tree provides most of POAN1 cover.							

Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Control weeds as needed.

Other comments:

Area will never really be a "wetland" since as a result of the large storm events of the past 2 years it has blown out the bottom & created a large pool in the area.

Completed by:

*Jody Nelson*

*J. Nelson*

Date

8/26/10