

ML-SD-ME-00520-000

W567ME002

WETLAND

WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: KYL IV City/County: MEADE Sampling Date: 10/20

Applicant/Owner: State: SD Sampling Point:

Investigator(s): SGT Section, Township, Range:

Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%):

Subregion (LRR): Lat: Long: Datum:

Soil Map Unit Name: NWI classification: PEM

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 X 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.

Summary of Findings table with checkboxes for Hydrophytic Vegetation Present, Hydric Soil Present, Wetland Hydrology Present, and Is the Sampled Area within a Wetland? (Yes X, No)

VEGETATION - Use scientific names of plants.

Vegetation data table with columns for Stratum, Absolute % Cover, Dominant Species?, and Indicator Status. Includes dominance test worksheet (3 species, 100% FAC) and prevalence index worksheet.

Remarks: Great Plains - Version 2.0

Sampling Point: \_\_\_\_\_

**SOIL**

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> |         |         |
| 0-12           | 3/4 6         | 100 | normal 4/6     | 30  |                   |         |         |
| 12-15          | 4/1           | 100 | Gleying 5/1    | 100 |                   |         |         |
|                |               |     |                |     |                   |         |         |
|                |               |     |                |     |                   |         |         |
|                |               |     |                |     |                   |         |         |
|                |               |     |                |     |                   |         |         |
|                |               |     |                |     |                   |         |         |
|                |               |     |                |     |                   |         |         |

<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.)
- |   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> Histosol (A1)                     | <input type="checkbox"/> Sandy Gleyed Matrix (S4)        | <input type="checkbox"/> 1 cm Muck (A9) (LRR I, J)  |
| <input checked="" type="checkbox"/> Histic Epipedon (A2)              | <input type="checkbox"/> Sandy Redox (S5)                | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR F, G, H)  |
| <input type="checkbox"/> Black Histic (A3)                            | <input type="checkbox"/> Stripped Matrix (S6)            | <input type="checkbox"/> Dark Surface (S7) (LRR G)  |
| <input type="checkbox"/> Hydrogen Sulfide (A4)                        | <input type="checkbox"/> Loamy Mucky Mineral (F1)        | <input type="checkbox"/> High Plains Depressions (F16)  |
| <input type="checkbox"/> Stratified Layers (A5) (LRR F)               | <input type="checkbox"/> Loamy Gleyed Matrix (F2)        | <input type="checkbox"/> (LRR H outside of MLRA 72 & 73)  |
| <input type="checkbox"/> 1 cm Muck (A9) (LRR F, G, H)                 | <input checked="" type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Reduced Vertic (F18)   |
| <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6)         | <input type="checkbox"/> Red Parent Material (TF2)  |
| <input checked="" type="checkbox"/> Thick Dark Surface (A12)          | <input type="checkbox"/> Depleted Dark Surface (F7)      | <input type="checkbox"/> Very Shallow Dark Surface (TF12)   |
| <input type="checkbox"/> Sandy Mucky Mineral (S1)                     | <input type="checkbox"/> Redox Depressions (F8)          | <input type="checkbox"/> Other (Explain in Remarks)   |
| <input type="checkbox"/> 2.5 cm Mucky Peat or Peat (S2) (LRR G, H)    | <input type="checkbox"/> High Plains Depressions (F16)   | <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. |
| <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR F)         | <input type="checkbox"/> (MLRA 72 & 73 of LRR H)         |   |

Restrictive Layer (if present):  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:

**HYDROLOGY**

- Wetland Hydrology Indicators:
- |  |  |   |
|--|--|---|
| Primary Indicators (minimum of one required; check all that apply) |  | Secondary Indicators (minimum of two required)                      |
| <input type="checkbox"/> Surface Water (A1)                        | <input type="checkbox"/> Salt Crust (B11)                                      | <input type="checkbox"/> Surface Soil Cracks (B6)                   |
| <input type="checkbox"/> High Water Table (A2)                     | <input type="checkbox"/> Aquatic Invertebrates (B13)                           | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)    |
| <input type="checkbox"/> Saturation (A3)                           | <input type="checkbox"/> Hydrogen Sulfide Odor (C1)                            | <input type="checkbox"/> Drainage Patterns (B10)                    |
| <input type="checkbox"/> Water Marks (B1)                          | <input type="checkbox"/> Dry-Season Water Table (C2)                           | <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) |
| <input type="checkbox"/> Sediment Deposits (B2)                    | <input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) | <input type="checkbox"/> (where tilled)                             |
| <input type="checkbox"/> Drift Deposits (B3)                       | <input type="checkbox"/> (where not tilled)                                    | <input type="checkbox"/> Crayfish Burrows (C8)                      |
| <input type="checkbox"/> Algal Mat or Crust (B4)                   | <input checked="" type="checkbox"/> Presence of Reduced Iron (C4)              | <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)  |
| <input checked="" type="checkbox"/> Iron Deposits (B5)             | <input type="checkbox"/> Thin Muck Surface (C7)                                | <input type="checkbox"/> Geomorphic Position (D2)                   |
| <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) | <input type="checkbox"/> Other (Explain in Remarks)                            | <input type="checkbox"/> FAC-Neutral Test (D5)                      |
| <input type="checkbox"/> Water-Stained Leaves (B9)                 |  | <input type="checkbox"/> Frost-Heave Hummocks (D7) (LRR F)          |

Field Observations:

|   |  |                       |  |
|---|--|-----------------------|--|
| Surface Water Present?                          | Yes _____ No <input checked="" type="checkbox"/> | Depth (inches): _____ | Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |
| Water Table Present?                            | Yes _____ No <input checked="" type="checkbox"/> | Depth (inches): _____ |  |
| Saturation Present? (includes capillary fringe) | Yes _____ No <input checked="" type="checkbox"/> | Depth (inches): _____ |  |

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

Remarks:

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 Investigator(s): \_\_\_\_\_ Section, Township, Range: \_\_\_\_\_  
 Landform (hillslope, terrace, etc.): \_\_\_\_\_ Local relief (concave, convex, none): \_\_\_\_\_ Slope (%): \_\_\_\_\_  
 Subregion (LRR): \_\_\_\_\_ Lat: \_\_\_\_\_ Long: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: \_\_\_\_\_ NWI classification: P5M

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 X 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 _____ No <u>X</u> | Is the Sampled Area within a Wetland? Yes _____ No <u>X</u> |
| Hydric Soil Present?            | Yes _____ No <u>X</u> |   |
| Wetland Hydrology Present?      | Yes _____ No <u>X</u> |   |
| Remarks:                        |                       |   |

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

| Tree Stratum (Plot size: _____)          | Absolute % Cover | Dominant Species? | Indicator Status | Dominance Test worksheet:<br>Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): <u>0</u> (A)<br>Total Number of Dominant Species Across All Strata: <u>3</u> (B)<br>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)   |
|--|------------------|-------------------|------------------|---|
| 1. _____                                 | _____            | _____             | _____            |   |
| 2. _____                                 | _____            | _____             | _____            |   |
| 3. _____                                 | _____            | _____             | _____            |   |
| 4. _____                                 | _____            | _____             | _____            |   |
| _____ = Total Cover                      | _____            | _____             | _____            |   |
| Sapling/Shrub Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status | Hydrophytic Vegetation Indicators:<br>___ 1 - Rapid Test for Hydrophytic Vegetation<br>___ 2 - Dominance Test is >50%<br>___ 3 - Prevalence Index is ≤3.0 <sup>1</sup><br>___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)<br>___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)<br><sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. _____                                 | _____            | _____             | _____            |   |
| 2. _____                                 | _____            | _____             | _____            |   |
| 3. _____                                 | _____            | _____             | _____            |   |
| 4. _____                                 | _____            | _____             | _____            |   |
| Herb Stratum (Plot size: _____)          | Absolute % Cover | Dominant Species? | Indicator Status | Hydrophytic Vegetation Present? Yes _____ No <u>X</u>   |
| 1. <u>SAGE</u>                           | <u>20</u>        | <u>Y</u>          | _____            |   |
| 2. <u>WESTERN WHEATGRASS</u>             | <u>40</u>        | <u>Y</u>          | _____            | Remarks:  |
| 3. <u>FIELD THISTLE</u>                  | <u>5</u>         | <u>N</u>          | _____            |   |
| 4. <u>NEEDLE GRASS</u>                   | <u>20</u>        | <u>Y</u>          | _____            |   |
| 5. <u>RHOBIKIA</u>                       | <u>5</u>         | <u>N</u>          | _____            |   |
| 6. _____                                 | _____            | _____             | _____            |   |
| 7. _____                                 | _____            | _____             | _____            |   |
| 8. _____                                 | _____            | _____             | _____            |   |
| 9. _____                                 | _____            | _____             | _____            |   |
| 10. _____                                | _____            | _____             | _____            |   |
| _____ = Total Cover                      | _____            | _____             | _____            |   |
| Woody Vine Stratum (Plot size: _____)    | Absolute % Cover | Dominant Species? | Indicator Status |   |
| 1. _____                                 | _____            | _____             | _____            |   |
| 2. _____                                 | _____            | _____             | _____            |   |
| _____ = Total Cover                      | _____            | _____             | _____            |   |
| % Bare Ground in Herb Stratum _____      |                  |                   |                  |   |

