

# WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: Keystone VI - Phase IV City/County: Harding Sampling Date: 8/5/10  
 Applicant/Owner: TransCanada - Trow State: SD Sampling Point: W109HAdd1  
 Investigator(s): B109 Section, Township, Range:             
 Landform (hillslope, terrace, etc.): hill slope Local relief (concave, convex, none): slope Slope (%): 8  
 Subregion (LRR): Western Great Plains Lat:            Long:            Datum:             
 Soil Map Unit Name:            NWI classification:           

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No            (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes A No             
 Are Vegetation N, Soil N, or Hydrology N 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 <u>          </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>          </u> No <u>X</u>
Hydric Soil Present?	Yes <u>          </u> No <u>X</u>	
Wetland Hydrology Present?	Yes <u>          </u> No <u>X</u>	
Remarks: <u>upslope of PCM w/in pasture.</u>		

## VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>NA</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC (excluding FAC-): <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
2. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
3. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
4. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
= Total Cover				
Sapling/Shrub Stratum (Plot size: <u>NA</u> )				
1. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
2. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
3. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
4. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
5. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
= Total Cover				
Herb Stratum (Plot size: <u>S1</u> )				
1. <u>Naessella viridula</u>	<u>88%</u>	<u>Y</u>	<u>NI</u>	
2. <u>Poa pratensis</u>	<u>15%</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Heperostem comata</u>	<u>10%</u>	<u>N</u>	<u>NI</u>	
4. <u>Paspalum Smithii</u>	<u>12%</u>	<u>Y</u>	<u>FACU</u>	
5. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
6. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
7. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
8. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
9. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
10. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
= Total Cover				
Woody Vine Stratum (Plot size: <u>NA</u> )				
1. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
2. <u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	
= Total Cover				
% Bare Ground in Herb Stratum <u>10%</u>				
Remarks: <u>          </u>				
Hydrophytic Vegetation Present? Yes <u>X</u> No <u>X</u>				

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W/09HAC01

[illegible]

## HYDROLOGY

Wetland Hydrology Indicators:		
<div> <div> Primary Indicators (minimum of one required; check all that apply) </div> <div> Secondary Indicators (minimum of two required) </div> </div>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Soil 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 type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	(where tilled)
<input type="checkbox"/> Drift Deposits (B3)	(where not tilled)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input 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)
<div> <div> Field Observations: </div> <div> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> </div> </div>		
<div> <div> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> </div> <div> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> </div> <div> Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> </div> </div>	<div> <div> Depth (Inches): _____ </div> <div> Depth (Inches): _____ </div> <div> Depth (Inches): _____ </div> </div>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		