WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: Applicant: Investigators Soil Unit: | Enbridge | | | | | Subregio | • | or LRR): I Classificatio | MLRA 56 | | Date:09/25/14County:MarshallState:MN | | |
|--|--|---|--------------|-------|--|--|----------------|---|--|--|--|--|--|
| Landform: | Side slope Local Relief: VL | | | | | | | | | | Sample Point: u-154n45w11-a1 | | |
| Slope (%): | 3 - 7% | nditions on the site | Latitude: 48 | | | Longitude: | | | Datum ☑ Yes | : □ No | Continue | | |
| Are Vegetation | | , or Hydrology | | | | I f (If no, ex | 1 | | umstances pr | | Section: Township: | | |
| Are Vegetation | | □, or Hydrology | • | • | | | | | | | Range: Dir: | | |
| SUMMARY C | | | , | | | | | | | | | | |
| Hydrophytic V | Vegetation Pr | resent? | N | 0 | | | | | Hydric Soi | Is Present? | ' No | | |
| Wetland Hyd | | | N | | | | | | Is This Sa | mpling Poin | nt Within A Wetland? No | | |
| Remarks: | Upland sam | ple point in a soy | bean field, | upsl | ope from a s | easonally | /-flooded | l basin. | | | | | |
| | V | | | | | | | | | | | | |
| □ A3 - Saturation □ C1 - Hydrogen Sulfide Odor □ B10 - Drainage Patterns | | | | | | | | | | B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery D2 - Geomorphic Position D5 - FAC-Neutral Test | | | |
| Field Observations: Depth: (in.) Wetland Hydrology Present? N Surface Water Present? Yes Depth: (in.) (in.) Metland Hydrology Present? N Water Table Present? Yes Depth: (in.) (in.) (in.) Metland Hydrology Present? N Saturation Present? Yes Depth: (in.) (in.) (in.) Metland Hydrology Present? N Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary or secondary hydrological indicators were observed. | | | | | | | | | | | | | |
| SOILS | | | | | | | | | | | | | |
| | | be to the depth ne etion, RM=Reduced M | | | | | | | | | | | |
| ()))))))) | , | | | | | | | | | | | | |
| | | Matrix | | | | | Mottl | es | | | | | |
| Depth (In.) | | Color (Moist) | | % | Color (N | /loist) | % | Туре | Location | Texture | Remarks | | |
| 0-18 | Hue_10YR | 2/1 | | 100 | | | | | | SC | | | |
| 18-25 | Hue_10YR | 6/3 | | 40 | Hue_10YR | 6/6 | 10 | С | M | C | | | |
| 18-25 | Hue_10YR | 2/1 | | 50 | | | | | | SC | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| NRCS Hydr | A1- Histosol A2 - Histic Epipedon A3 - Black Histic A4 - Hydrogen Sulfide A5 - Stratified Layers (LRR F) A9 - 1 cm Muck (LRR FGH) A11 - Depleted Below Dark Surface A12 - Thick Dark Surface S1 - Sandy Mucky Mineral S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR F) | | | | S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da F16 - High Pla | edox Matrix ucky Miner leyed Matri Matrix ark Surface Dark Surfa epressions | al x ace | A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla | for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material r Shallow Dark Surface ain in Remarks) hydrophytic vegetation and wetland hydrology must be present, ed or problematic. | | | | |
| Restrictive Layer | er Type: | | | | Depth: | | | | Hydric Soil Present? | | | | |
| | | · . | | | | Hydric Soil Present? N | | | | | | | |
| Remarks: | Soil is black indicators. | sandy clay under | lain by a m | nixed | l layer of the | black top | soil and | l light brown (| clay with redo | x concentra | itions; the profile does not meet any hydric soi | | |

WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: u-154n45w11-a1 | | |
|---|---|----------------|-----------------|------------------|---|--|--|
| | | | | | | | |
| | | e non-native | species.) | | | | |
| Tree Stratum | (Plot size: 30 ft. radius) <u>Species Name</u> | <u>% Cover</u> | Dominant | Ind.Status | Dominance Test Worksheet | | |
| 1. | | <u>% Cover</u> | <u>Dominant</u> | <u>mu.status</u> | Dominance rest worksneet | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) | | |
| 3. | | | | | | | |
| 4. | <u> </u> | | | | Total Number of Dominant Species Across All Strata: 1 (B) | | |
| 5. | | | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B) | | |
| 7. | <u></u> | | | | | | |
| 8. | J | | | | Prevalence Index Worksheet | | |
| 9. | | | | | Total % Cover of: Multiply by: | | |
| 10. | | | | | $OBL \text{ spp.} \qquad 0 \qquad \text{ x } 1 = 0$ | | |
| | Total Cover = | 0 | | | FACW spp. 0 $x 2 = 0$ | | |
| | - | | _ | | OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 2 x 4 = 8 | | |
| Sapling/Shrub | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 2 x 4 = 8 | | |
| 1. | | | | | UPL spp. 70 X 5 = 350 | | |
| 2. | | | | | | | |
| 3. | | | | | Total 72 (A) 358 (B) | | |
| 4. | | | | | | | |
| 5. | | | | | Prevalence Index = B/A = 4.972 | | |
| 6. | | | | | | | |
| 7. | | | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation | | |
| 10. | | | | | Dominance Test is > 50% | | |
| | Total Cover = | 0 | _ | | Prevalence Index is ≤ 3.0 * | | |
| | | | | | Morphological Adaptations (Explain) * | | |
| Herb Stratum (| Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * | | |
| 1. | Glycine max | 70 | Y | NI | | | |
| 2. | Artemisia biennis | 1 | Ν | FACU | * Indicators of hydric soil and wetland hydrology must be | | |
| 3. | Setaria pumila | 1 | N | FACU | present, unless disturbed or problematic. | | |
| 4. | | | | | Definitions of Vegetation Strata: | | |
| 5. | | | | | | | |
| 6 | | | | | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast | | |
| 7. | | | | | height (DBH), regardless of height. | | |
| 8. | | | | | | | |
| 9. | | | | | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. | | |
| 10. | | | | | | | |
| 11. | | | | | | | |
| 12. | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. | | |
| 13. | | | | | | | |
| 14. | | | | | | | |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. | | |
| | Total Cover = | 72 | _ | | | | |
| | | | | | | | |
| Woody Vine St | ratum (Plot size: 30 ft. radius) | | | | | | |
| 1. | | | | | | | |
| 2. | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? N | | |
| 5. | | | | | | | |
| 4. | Tatal Oasta | | | | | | |
| Domontos | Total Cover = | 0 | | | | | |
| Remarks: Sample site dominated by cultivated soybean. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Additional F | Remarks: | | | | | | |
| | | | | | | | |
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