WETLAND DETERMINATION DATA FORM Great Plains Region

| | | | • | | | | | | | _ | | | |
|--|--|--|--|--|--|---------------------------|---|-------------------|---|--|---|--|--|
| Project/Site: | | L3R | | | | | | | | Date: | 09/25/14 | | |
| Applicant: | | Enbridge | | | | <i>.</i> | \ | | | County: | Marshall | | |
| Investigators: | | BEH/NTT | | | _Subregioi | • | or LRR): | MLRA 56 | | State: | MN | | |
| Soil Unit: | NWI Classification | | | | | | |): | | 4 | 454.45.444 | | |
| Landform: | Talf | | 1 1 10 1 | | cal Relief: | | 04754 | D . (| | │ Sample Point: | u-154n45w11-c1 | | |
| Slope (%): | 0 - 2% | المحالا ومحالا المعا | Latitude: 48.1 | | Longitude: | | | Datum: | | 4 | | | |
| | | onditions on the si | | | ar? (If no, exp | | | | □ No | Section: | | | |
| Are Vegetation | | □, or Hydrology | • | • | | Are | normal circur | - | esent? | Township: | D: | | |
| Are Vegetation | | □, or Hydrology | □aturally pr | obiematic? | | | Yes | □ No | | Range: | Dir: | | |
| SUMMARY O | | | NI. | | | | | Lludria Cai | ila Duas aust |) No | | | |
| Hydrophytic \ | • | | No | | - | | | | ils Present? | | otlondo No | | |
| Wetland Hyd | | | No | alama fuama a | o o o o o o o llu | , flooded | hasia Dalieth | | | nt Within A W | | | |
| Remarks: | Opiana san | ipie point in a soy | bean field, up | slope from a | seasonally | /-1100aea | basın. Relict r | nyaric soil is | present, bi | ut no otner we | tland indicators were observed. | | |
| | | | | | | | | | | | | | |
| HYDROLOGY | Y | | | | | | | | | | | | |
| Wetland Hy | drology Ind | icators (Check al | II that apply; N | linimum of or | e primary | or two se | econdary requi | ired): | | | | | |
| Primary: | | | | | | | | | <u>Secondary</u> | | | | |
| | A1 - Surface Water | | | | B11 - Salt (| | | | | B6 - Surface S | | | |
| | A2 - High Wa | | | | B13 - Aqua | | - Od-" | | | | Vegetated Concave Surface | | |
| | A3 - Saturation B1 - Water Marks | | | □ C1 - Hydrogen Sulfide Odor□ C2 - Dry Season Water Table□ □ | | | | | | | B10 - Drainage PatternsC3 - Oxidized Rhizospheres on Living Roots (tilled) | | |
| | B2 - Sedimer | | | | | | pheres on Living | Roots (not til | le 🗆 | C8 - Crayfish E | | | |
| | B3 - Drift Dep | • | | | C4 - Prese | | | (1.00.0) | `` | | n Visible on Aerial Imagery | | |
| | · | | | | | | | | | D2 - Geomorp | | | |
| | B5 - Iron Dep | | | | Other (Exp | lain) | | | | D5 - FAC-Neu | | | |
| | | on Visible on Aerial Ir | magery | | | | | | | D7 - Frost-Hea | aved Hummocks (LRR F) | | |
| | B9 - Water-S | tained Leaves | | | | | | | | | | | |
| E' I I OI | - 4 * | | | | | | | | | | | | |
| Field Observ | | | _ | | <i>(</i> 1.) | | | | | | | | |
| Surface Wate | | Yes □ | Dept | | _ (in.) | | | Wetland F | Hydrology | Present? | N | | |
| Water Table | | Yes □ | Dept | | _ (in.) | | | | ., | | <u></u> | | |
| Saturation Pr | esent? | Yes □ | Dept | h: | _ (in.) | | | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | | | |
| Describe Reco | orded Data (s | stream gauge, mor | nitoring well, a | erial photos, pr | evious insp | ections), | l if available: | | | | | | |
| | <u>`</u> | | | | | ections), | if available: | | | | | | |
| Describe Reco | <u>`</u> | stream gauge, mor or secondary hyd | | | | ections), | if available: | | | | | | |
| Remarks: | <u>`</u> | | | | | ections), | if available: | | | | | | |
| Remarks: | No primary | or secondary hyd | Irological indic | cators were ob | oserved. | · | | ndicators.) | | | | | |
| Remarks: SOILS Profile Descri | No primary ption (Descr | | rological indic | cators were obs | cator or co | onfirm the | e absence of ir | | | | | | |
| Remarks: SOILS Profile Descri | No primary ption (Descr | or secondary hyd | rological indic | cators were obs | cator or co | onfirm the | e absence of ir | | | | | | |
| Remarks: SOILS Profile Descri | No primary ption (Descr | or secondary hyd | rological indic | cators were obs | cator or co | onfirm the | e absence of ir ore Lining, M=Mat | | | | | | |
| Remarks: SOILS Profile Descri (Type: C=Concen | No primary ption (Descr | or secondary hyd ibe to the depth no etion, RM=Reduced M | rological indic | ument the indi | cator or co | onfirm the | e absence of ir ore Lining, M=Mat | | Texture | | Remarks | | |
| Remarks: SOILS Profile Descri | No primary ption (Descr | or secondary hyd ibe to the depth notetion, RM=Reduced M Matrix Color (Moist) | eeded to docu | ument the indi | cator or co | onfirm the tion: PL=Po | e absence of ir ore Lining, M=Mat | rix) | | | Remarks | | |
| Remarks: SOILS Profile Descri (Type: C=Concent | No primary ption (Description, D=Depl | or secondary hyd ibe to the depth notetion, RM=Reduced M Matrix Color (Moist) 2/1 | eeded to docu Matrix, CS=Cover | ument the indi | cator or co | onfirm the tion: PL=Po | e absence of ir ore Lining, M=Mat | rix) | SCL | dense gravel | Remarks | | |
| Remarks: SOILS Profile Descripe: C=Concent Depth (In.) 0-8 8-10 | No primary ption (Descriptration, D=Deplementation) Hue_10YR Hue_10YR | or secondary hyd ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 | eeded to docu Matrix, CS=Cover | ument the indied/Coated Sand Color (| cator or co | onfirm the | e absence of ir ore Lining, M=Mat es Type | Location | SCL SCL | dense gravel | Remarks | | |
| Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-8 | No primary ption (Description, D=Depl | or secondary hyd ibe to the depth notetion, RM=Reduced M Matrix Color (Moist) 2/1 | eeded to docu Matrix, CS=Cover | ument the indied/Coated Sand Color (| cator or co | onfirm the tion: PL=Po | e absence of ir ore Lining, M=Mat | rix) | SCL | dense gravel | Remarks | | |
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| Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-10 10-21 | No primary ption (Descritration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y | or secondary hyd ibe to the depth notetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 7/2 | eeded to docu Matrix, CS=Cover | cators were obtained/Coated Sand Color (D) Hue_10YR | cator or co Grains; Locat Moist) | Mottle | e absence of incre Lining, M=Mate | Location | SCL SCL | dense gravel | Remarks | | |
| Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-10 | No primary ption (Descritration, D=Depl Hue_10YR Hue_10YR Hue_2.5Y | or secondary hyd ibe to the depth notetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 7/2 | eeded to docu Matrix, CS=Cover | cators were obtained/Coated Sand Color (D) Hue_10YR | cator or co Grains; Locat Moist) | Mottle | e absence of ir ore Lining, M=Mat es Type | Location | SCL SCL C | | _ | | |
| Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-8 8-10 10-21 | No primary ption (Descriptration, D=Depletration, D=Depletration) Hue_10YR Hue_10YR Hue_2.5Y | or secondary hyd ibe to the depth notetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 7/2 | eeded to docu Matrix, CS=Cover | cators were obtained/Coated Sand Color (CO) Hue_10YR | cator or co Grains; Locat Moist) | Mottle | e absence of incre Lining, M=Mate | Location | SCL SCL C | for Problematic | _ | | |
| Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-8 8-10 10-21 NRCS Hydri | No primary ption (Descriptration, D=Depletration, D=Depletrat | or secondary hyd ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 7/2 Indicators (class) | eeded to docu Matrix, CS=Cover | cators were obtained/Coated Sand Color (CO) Hue_10YR andicators are in the same in the s | cator or co Grains; Locat Moist) 5/8 not present | Mottle | e absence of incre Lining, M=Mate | Location | SCL SCL C | for Problemation | c Soils ¹ | | |
| Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-8 8-10 10-21 NRCS Hydri | No primary ption (Descriptration, D=Depletration, D=Depletrat | or secondary hyd ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 7/2 Indicators (classifications) | eeded to docu Matrix, CS=Cover | cators were obtained indicators are in the indicators are indicators. | cator or co Grains; Locat Moist) 5/8 not present | Mottle % | e absence of incre Lining, M=Mate | Location | SCL SCL C Indicators A9 - 1 cm N A16 - Coas | for Problemation Muck (LRR I, J) t Prairie Redox (| c Soils ¹ | | |
| Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-8 8-10 10-21 | No primary ption (Descriptration, D=Depletration, D=Depletrat | or secondary hyd ibe to the depth notetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 7/2 Indicators (classification) | eeded to docu Matrix, CS=Cover | Color (CO) Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N | cator or co Grains; Locat Moist) 5/8 not present | Mottle % 5 | e absence of incre Lining, M=Mate | Location | SCL SCL C Indicators A9 - 1 cm N A16 - Coast S7 - Dark S | for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G) | Soils ¹ (LRR F, G, H) | | |
| Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-8 8-10 10-21 | ntration, Descritration, Depoint Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge | or secondary hyd ibe to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 7/2 Indicators (classice in Sulfide | eeded to document, CS=Cover % 100 100 95 | cators were obtained/Coated Sand Color (CO) Hue_10YR Addicators are in the second se | cator or co Grains; Locat Moist) 5/8 cedox Mucky Minera | Mottle % 5 | e absence of ir ore Lining, M=Mat es Type C | Location | SCL SCL C Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I | for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)) Plains Depression | c Soils ¹ | | |
| Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-8 8-10 10-21 NRCS Hydri | Descritration, Descritration, Depoint Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge A5 - Stratified | or secondary hyd ibe to the depth notetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 7/2 Indicators (classic in Sulfide I Layers (LRR F) | eeded to documents, CS=Covers % 100 100 95 | Color (CO) Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C | cator or co Grains; Locat Moist) 5/8 not present Redox I Matrix Mucky Minera Gleyed Matrix | Mottle % 5 t): | e absence of ir ore Lining, M=Mat es Type C | Location | SCL SCL C Indicators A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Reduce | for Problemation Muck (LRR I, J) It Prairie Redox (Surface (LRR G) Plains Depression Ced Vertic | Soils ¹ (LRR F, G, H) | | |
| Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-8 8-10 10-21 | ption (Descriptration, D=Deplementation, D=Deple | or secondary hyd ibe to the depth notetion, RM=Reduced M Matrix Color (Moist) 2/1 6/1 7/2 Indicators (classic in Sulfide il Layers (LRR F) ick (LRR FGH) | eeded to documents, CS=Cover % 100 100 95 heck here if in | Color (CO) Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D | cator or co Grains; Locat Moist) 5/8 not present Redox I Matrix Mucky Minera Gleyed Matrix Oark Surface | Mottle % 5 t): | e absence of ir ore Lining, M=Mat es Type C | Location | SCL SCL C Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F | for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression Ced Vertic Parent Material | E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) | | |
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WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: u-154n45w11-c1 |
|----------------|---|----------------|----------------------------|------------|--|
| | | | | | <u> </u> |
| VEGETATIO | | are non-native | species.) | | |
| Tree Stratum (| (Plot size: 30 ft. radius) | | | | |
| | Species Name | % Cover | <u>Dominant</u> | Ind.Status | Dominance Test Worksheet |
| 1. | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC:(A) |
| 3. | | | | | |
| 4. | | | | | 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. | | | | | |
| 8. | | | | | Prevalence Index Worksheet |
| 9. | | | | | Total % Cover of: Multiply by: |
| 10. | | | | | OBL spp. $0 	 x 	 1 = 0$ |
| | Total Cover | = 0 | | | FACW spp. ${0}$ $x = {0}$ |
| | | | FAC spp. ${0}$ $x 3 = {0}$ | | |
| Sapling/Shrub | Stratum (Plot size: 15 ft. radius) | | | | Total % Cover or: Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 0 x 4 = 0 UPL spp. 70 x 5 = 350 |
| 1. | | | | | UPL spp. $\frac{70}{100} \times 5 = \frac{350}{100}$ |
| 2. | | | | | |
| 3. | | | | | Total 70 (A) 350 (B) |
| 4. | | | | | |
| 5. | | | | | Prevalence Index = $B/A = 5.000$ |
| 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) * |
| Herh Stratum (| Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * |
| 1. | Glycine max | 70 | Υ | NI | Problem riyurophytic vegetation (Explain) |
| 2. | Glycine max | 70 | <u>'</u> | 111 | * Indicators of hydric soil and wetland hydrology must be |
| 3. | | | | _ | present, unless disturbed or problematic. |
| 4. | | | | | Definitions of Vegetation Strata: |
| 5. | | | | | Definitions of Vegetation Strata. |
| 6 | | | | _ | Troo - Was I also to 0 is (7.0 m) and is fine to the set |
| | | | | _ | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. |
| 7. | | | | | Height (BBH), regardless of height. |
| 8. | <u> </u> | | | _ | Continue/Charte Woody plants loss than 3 in DBH regardless of height |
| 9. | | | | _ | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. |
| 10. | | | | _ | 4 |
| 11. | | _ | | | All back account for an area of a constitution of air- |
| 12. | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. |
| 13. | | | | _ | |
| 14. | | | | | |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. |
| | Total Cover | = 70 | | | |
| | | | | | |
| Woody Vine St | ratum (Plot size: 30 ft. radius) | | | | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present?N |
| 5. | | | | | |
| 4. | | | | | |
| | Total Cover | = 0 | | | |
| Remarks: | Sample site dominated by cultivated soybe | ean. | | | |
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| Additional R | Remarks: | | | | |
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