WETLAND DETERMINATION DATA FORM Great Plains Region

| D: 1/0:1 | | LOD | | | | | | | I Data: | 00/00/44 |
|---|---|--|--|--|--|--|-------------------|--|--|---|
| Project/Site: | | L3R Enhaidea | | | | | | | Date: | 09/26/14 Dennington |
| Applicant: | | Enbridge BEH/NTT | | | Subragion (MI | DA or I DD). | MLRA 56 | | County: State: | Pennington MN |
| Investigators Soil Unit: | I48A | DEH/INT I | | | Subregion (ML_ م | WI Classification | | | State. | IVIIN |
| Landform: | Talf | | | _ | cal Relief: VL | vvi Ciassilication | ı. <u> </u> | | Sample Point | u-154n44w19-c3 |
| Slope (%): | 3 - 7% | l at | titude: 48.14 | | Longitude: -96.3 | 4855571 | Datum | • | Cample I om | <u>u 1041144W15 00</u> |
| . , , | | nditions on the site ty | | | <u> </u> | | ✓ Yes | □ No | Section: | |
| Are Vegetation | | - | • | disturbed? | | Are normal circur | | | Township: | |
| Are Vegetation | | | aturally pro | | | ✓ Yes | • | | Range: | Dir: |
| SUMMARY C | | , , | January pro- | | | | , 10 | | · · · · · · · · · · · · · · · · · · · | |
| Hydrophytic \ | | | No | | | | Hydric Soi | ls Present? | ^o No | |
| Wetland Hyd | _ | | No | | - | | | | nt Within A W | etland? No |
| Remarks: | | ple point in a heavily | grazed pa | sture domina | ited by grasses, | adjacent to a Wi | | | | |
| | • | | | | , , | • | | • | <u> </u> | • |
| HYDROLOG | Υ | | | | | | | | | |
| | | icators (Check all tha | at annly: M | inimum of on | e primary or two | secondary requi | ired): | | | |
| Primary: | | icators (Check all the | αι αρριу, ινι | | e primary or two | secondary requi | iieu). | Secondary | | |
| <u>- 1 1111a. y</u> | <u>·</u> | Water | | | B11 - Salt Crust | | | | <u>.</u> B6 - Surface S | Soil Cracks |
| | A2 - High Wa | ter Table | | | B13 - Aquatic Fa | ına | | | B8 - Sparsely | Vegetated Concave Surface |
| | A3 - Saturation | | | | C1 - Hydrogen S | | | | B10 - Drainag | |
| | B1 - Water M B2 - Sedimen | | | | C2 - Dry Season | Water Table zospheres on Living | a Boots (not till | | C3 - Oxidized C8 - Crayfish I | Rhizospheres on Living Roots (till |
| | B3 - Drift Dep | • | | | C4 - Presence of | | g Roots (not till | " <u> </u> | _ | n Visible on Aerial Imagery |
| | B4 - Algal Ma | | | | C7 - Thin Muck S | | | | D2 - Geomorp | |
| | B5 - Iron Dep | osits | | | Other (Explain) | | | | D5 - FAC-Neu | |
| | | on Visible on Aerial Image | ery | | | | | | D7 - Frost-Hea | aved Hummocks (LRR F) |
| | B9 - Water-S | tained Leaves | | | | | | | | |
| First LOL | - 4 * | | | | | | | | | |
| Field Observ | | | | | (1. A | | | | | |
| Surface Wate | | Yes | Depth | | _ (in.) | | Wetland H | Hydrology | Present? | N |
| Water Table | | Yes | Depth | | _ (in.) | | | , | | |
| Saturation Pr | resent? | Yes | Depth | : | (in.) | | | | | |
| | | | | | | | | | | |
| Describe Reco | orded Data (s | stream gauge, monitori | ing well, ae | rial photos, pr | evious inspection | s), if available: | | | | |
| Describe Reco | <u>`</u> | stream gauge, monitori or secondary hydrolo | | | <u>.</u> | s), if available: | | | | |
| | <u>`</u> | | | | <u>.</u> | s), if available: | | | | |
| Remarks: | No primary | or secondary hydrolo | ogical indica | ators were ob | served. | | | | | |
| Remarks: SOILS Profile Descri | No primary | or secondary hydrolo | ed to docu | ators were ob | eserved. | the absence of i | | | | |
| Remarks: SOILS Profile Descri | No primary | or secondary hydrolo | ed to docu | ators were ob | eserved. | the absence of i | | | | |
| Remarks: SOILS Profile Descri | No primary | or secondary hydrolo be to the depth need etion, RM=Reduced Matrix | ed to docu | ators were ob | cator or confirm | the absence of in Pore Lining, M=Mat | | | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix | led to docu | ment the indi | cator or confirm Grains; Location: PI | the absence of in Pore Lining, M=Mat | trix) | Toyturo | | Domarko |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary iption (Descriptration, D=Depl | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) | led to docu | ators were ob | cator or confirm Grains; Location: PI | the absence of in Pore Lining, M=Mat | | Texture | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 | No primary iption (Descriptration, D=Depl | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 | led to documents, CS=Covere | ment the indi | cator or confirm Grains; Location: PI | the absence of in Pore Lining, M=Mat | trix) | CL | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary iption (Descriptration, D=Depl | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 | led to docu | ment the indi | cator or confirm Grains; Location: PI | the absence of in Pore Lining, M=Mat | trix) | Texture CL SCL | abundant gravel | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 | No primary iption (Descriptration, D=Depl | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 | led to documents, CS=Covere | ment the indi | cator or confirm Grains; Location: PI | the absence of in Pore Lining, M=Mat | trix) | CL | abundant gravel | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 | No primary iption (Descriptration, D=Depl | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 | led to documents, CS=Covere | ment the indi | cator or confirm Grains; Location: PI | the absence of in Pore Lining, M=Mat | trix) | CL | abundant gravel | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 | No primary iption (Descriptration, D=Depl | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 | led to documents, CS=Covere | ment the indi | cator or confirm Grains; Location: PI | the absence of in Pore Lining, M=Mat | trix) | CL | abundant gravel | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 | No primary iption (Descriptration, D=Depl Hue_10YR Hue_10YR | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 | led to document, CS=Covere % 100 100 | ment the indi | cator or confirm Grains; Location: Pl Moist) % | the absence of inepresent the absence of inepresent the second strains of the second str | trix) | CL | abundant gravel | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 | No primary iption (Descriptration, D=Depl | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 | led to document, CS=Covere % 100 100 | ment the indi | cator or confirm Grains; Location: PI | the absence of in Pore Lining, M=Mat | trix) | CL SCL | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 | No primary iption (Description, D=Depl Hue_10YR Hue_10YR Fic Soil Field | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 | led to document, CS=Covere % 100 100 | ment the indid/Coated Sand | cator or confirm Grains; Location: Pl Moist) not present): | the absence of inepresent the absence of inepresent the second strains of the second str | Location | CL SCL | for Problemati | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 NRCS Hydr | No primary Iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol | be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 Indicators (check | led to document, CS=Covere % 100 100 | ment the indid/Coated Sand Color (Color (S5 - Sandy R | cator or confirm Grains; Location: Pl Moist) not present): | the absence of inepresent the absence of inepresent the second strains of the second str | Location | CL SCL Indicators 1 A9 - 1 cm M | for Problemation | c Soils ¹ |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 NRCS Hydr | No primary Iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 Indicators (checkline) | led to document, CS=Covere % 100 100 | ment the indid/Coated Sand Color (Color (S5 - Sandy R S6 - Stripped | cator or confirm Grains; Location: Pl Moist) not present): edox Matrix | the absence of inepresent the absence of inepresent the second strains of the second str | Location | Indicators A9 - 1 cm MA16 - Coast | for Problemation Muck (LRR I, J) t Prairie Redox | c Soils ¹ |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His | be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 Indicators (checking the color is the color | led to document, CS=Covere % 100 100 | ment the indid/Coated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N | cator or confirm Grains; Location: Pl Moist) not present): edox Matrix Mucky Mineral | the absence of inepresent the absence of inepresent the second strains of the second str | Location | Indicators A9 - 1 cm M A16 - Coast S7 - Dark S | for Problemation Muck (LRR I, J) t Prairie Redox Jurface (LRR G) | c Soils ¹ (LRR F, G, H) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 Indicators (checkling ipedon stice in Sulfide | led to document, CS=Covere % 100 100 | ment the indid/Coated Sand Color (Color (S5 - Sandy RS6 - Stripped F1 - Loamy NF2 - Loamy Color (Color (Col | cator or confirm Grains; Location: Pl Moist) not present): edox Matrix Mucky Mineral Gleyed Matrix | the absence of inepresent the absence of inepresent the second strains of the second str | Location | Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F | for Problemation Muck (LRR I, J) t Prairie Redox Burface (LRR G) Plains Depression | c Soils ¹ |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 Indicators (check ipedonestic in Sulfide Layers (LRR F) | Second indicate Second ind | ment the indid/Coated Sand Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N | cator or confirm Grains; Location: Pl Moist) not present): edox Matrix Mucky Mineral Gleyed Matrix Matrix Matrix | the absence of inepresent the absence of inepresent the second strains of the second str | Location | Indicators : A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce | for Problemation Muck (LRR I, J) t Prairie Redox Burface (LRR G) Plains Depression | c Soils ¹ (LRR F, G, H) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete | or secondary hydrolo be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface | Second indicate Second ind | ment the indid/Coated Sand Color (Color (Section Section Secti | cator or confirm Grains; Location: Pl Moist) Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix Mucky Mineral Gleyed Matrix Matr | the absence of inepresent the absence of inepresent the second strains of the second str | Location | Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red FTF12 - Very | for Problemation Muck (LRR I, J) It Prairie Redox Burface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S | c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-20 NRCS Hydr | Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D | be to the depth needeetion, RM=Reduced Matrix Matrix Color (Moist) 2/1 4/3 Indicators (check ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface ark Surface | gical indicated to document with the second | ment the indid/Coated Sand Color (Color (Section Section Secti | cator or confirm Grains; Location: Pl Moist) Moist) Motor present): edox Matrix Mucky Mineral Gleyed Matrix Ma | the absence of inepresentation in the absence of inepresentation in the second | Location | Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red FTF12 - Very | for Problemation Muck (LRR I, J) t Prairie Redox Burface (LRR G) Plains Depression Ced Vertic Parent Material | c 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-154n44w19-c3 |
|-------------------|--|--------------------|-----------------|------------|--|
| | | | | | |
| VEGETATIO | | e non-native | e species.) | | |
| Tree Stratum | (Plot size: 30 ft. radius) | | | | |
| | <u>Species Name</u> | % Cover | <u>Dominant</u> | Ind.Status | Dominance Test Worksheet |
| 1. | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) |
| 3. | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata: 3 (B) |
| | | | | | Total Number of Dominant Species Across All Strata. |
| 5. | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B) |
| 7. | | | | | |
| 8. | | | | | Prevalence Index Worksheet |
| 9. | | | | | Total % Cover of: Multiply by: |
| 10. | | | | | |
| 10. | | 0 | | | OBL spp. 10 |
| | Total Gover = | | | | TAC ann 10 X 2 - 00 |
| | | | | | FAC spp. $\frac{10}{10}$ $\frac{10}{10}$ $\frac{10}{10}$ $\frac{10}{10}$ |
| | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 70 $x 4 = 280$ |
| 1. | | | | | UPL spp. $0 	 X 	 5 = 0$ |
| 2. | | | | | |
| 3. | | | | | Total 120 (A) 380 (B) |
| 4. | | | | | |
| 5. | | | | | Prevalence Index = $B/A = 3.167$ |
| 6. | | | | | Trevalence mack = B/A = 3.707 |
| | | | | | |
| 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) * |
| Llawb Ctratura | (Diet size: Eft redice) | | | | |
| | (Plot size: 5 ft. radius) | | | FACIL | Problem Hydrophytic Vegetation (Explain) * |
| 1. | Poa pratensis | 35 | Y | FACU | |
| 2. | Agrostis gigantea | 20 | Υ | FACW | * Indicators of hydric soil and wetland hydrology must be |
| 3. | Trifolium repens | 15 | Υ | FACU | present, unless disturbed or problematic. |
| 4. | Plantago major | 10 | N | FAC | Definitions of Vegetation Strata: |
| 5. | Taraxacum officinale | 10 | N | FACU | |
| 6 | Carex granularis | 10 | N | OBL | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast |
| 7. | | 5 | N | FACU | height (DBH), regardless of height. |
| | Setaria pumila | | | | rong m (= = m), mag m made en meng m |
| 8. | Carex vulpinoidea | 5 | N | FACW | B. H. Was I start to all DDU seconds of the |
| 9. | Trifolium pratense | 5 | N | FACU | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. |
| 10. | Juncus dudleyi | 5 | N | FACW | |
| 11. | | | | | |
| 12. | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. |
| 13. | | | | | |
| 14. | | | | | |
| | | | | | NAC - I NO All woods wings regardless of beight |
| 15. | | | | | Woody Vines - All woody vines, regardless of height. |
| | Total Cover = | 120 | | | |
| | | | | | |
| Woody Vine S | tratum (Plot size: 30 ft. radius) | | | | |
| 1 | | | | | |
| 2. | | | | | |
| 3. | | | | | Hydrophytic Verstetian Dressut 2 |
| | | | | | Hydrophytic Vegetation Present?N |
| 5. | | | | | |
| 4. | | | | | |
| | Total Cover = | 0 | | | |
| Remarks: | Sample site dominated by Kentucky bluegras | ss, redtop, | and white | clover. | |
| | | , _[. , | | | |
| | | | | | |
| | | | | | |
| Additional | Remarks: | | | | |
| | | | | | |
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