WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | Date: | 10/01/14 | |
|---|--|--|---|--|--|---|--|--|--|---|------------|
| Applicant: | | Enbridge | | | | | | | County: | Red Lake | |
| Investigators | • | LEB/DGL | | Subregion (MLRA or LRR): MLRA 56 | | | | | State: | MN | |
| Soil Unit: | I44A | LLD/D OL | | | _ cabi ogion i | NWI Classification | | | Otato. | | |
| Landform: | Side slope | | | | aal Daliafi M | | | | 0 I - D I | 454-40-45-14 | |
| | | | | | cal Relief: V | | | | Sample Point: | u-151n42w15-j1 | |
| Slope (%): | 0 - 2% | | Latitude: 47. | | Longitude: - | | Datum: | | | | |
| Are climatic/h | | nditions on the site | | this time of yea | ar? (If no, explai | | ⊡Yes | □ No | Section: | | |
| Are Vegetation | on 🖵 Soil | ☐ or Hydrology | □ gnifican | tly disturbed? | | Are normal circur | nstances pr | esent? | Township: | | |
| Are Vegetation | | or Hydrology | | | | | □No | | Range: | Dir: | |
| SUMMARY C | | | p | | | | | | rtarigo. | 5 | |
| | | | | | | | | | | | |
| Hydrophytic \ | 0 | | No | | _ | | | Is Present? | | | |
| Wetland Hyd | | | No | | | | | mpling Poin | it Within A W | etland? No | |
| Remarks: | The upland | sample point is lo | cated slightly | y upslope from | the wetland | d in a large cattle pas | ture. | | | | |
| | • | | | | | | | | | | |
| LIVEROLOGY | V | | | | | | | | | | |
| HYDROLOG | Y | | | | | | | | | | |
| Wetland Hv | droloay Ind | icators (Check all | I that apply: I | Minimum of on | e primary or | r two secondary requ | ired): | | | | |
| Primary: | | (| | | | | | Secondary: | | | |
| | A1 - Surface | Water | | П | B11 - Salt Cr | rust | | | B6 - Surface S | oil Cracks | |
| I | A2 - High Wa | | | | B13 - Aquatio | | | | | Vegetated Concave Surface | |
| I | A3 - Saturation | | | | | en Sulfide Odor | | | B10 - Drainage | | |
| I | B1 - Water M | | | | | son Water Table | | | | Rhizospheres on Living Roots | s (tilled) |
| I | B2 - Sedimen | | | | | d Rhizospheres on Living | Roots (not till | | C8 - Crayfish E | |) (tilled) |
| I | B3 - Drift Dep | | | | | ce of Reduced Iron | 110000 (1101 1111 | | | Nisible on Aerial Imagery | |
| I | B4 - Algal Ma | | | | C7 - Thin Mu | | | | D2 - Geomorp | | |
| I | B5 - Iron Dep | | | | Other (Explai | | | | D5 - FAC-Neu | | |
| I | | on Visible on Aerial Im | nagery | _ | Other (Explai | , | | | | aved Hummocks (LRR F) | |
| | B9 - Water-S | | lager y | | | | | _ | D7 - 1103t-1106 | ived Hummocks (ERRY) | |
| _ | 20 114101 0 | | | | | | | | | | |
| | | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | |
| Surface Water | er Present? | Yes | Dep | oth: | (in.) | | VA/411-1 | | D40 | N. | |
| Water Table | Present? | Yes \square | Den | oth: | (in.) | | wetiana F | lydrology l | Present? | N | |
| | | _ | | | (in.) | | | | | - | |
| Saturation Present? Yes Depth: (in.) | | | | | | | | | | | |
| | | | | | - ` ' | | | | | | |
| Describe Reco | orded Data (s | stream gauge, moni | itoring well, a | erial photos, pr | | ctions), if available: | | | | | |
| | | | | | evious inspec | | | | | | |
| Describe Reco | | stream gauge, moni or secondary indic | | | evious inspec | | | | | | |
| Remarks: | | | | | evious inspec | | | | | | |
| Remarks: SOILS | No primary | or secondary indic | cators of wet | land hydrology | evious inspec were obser | ved. | | | | | |
| Remarks: SOILS Profile Descri | No primary | or secondary indicates in the secondary indicate | cators of wet | land hydrology | evious inspect were obser | rved. | | | | | |
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| Remarks: SOILS Profile Descri (Type: C=Concer | No primary | or secondary indicates to the depth neetion, RM=Reduced Matrix | eeded to doc atrix, CS=Cove | cument the indi | evious inspective were observator or congrains; Location | firm the absence of in PL=Pore Lining, M=Mat | rix) | Texture | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary | or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist) | eeded to doc atrix, CS=Cove | cument the indi | evious inspective were observator or congrains; Location | rved. firm the absence of in PL=Pore Lining, M=Mat | | Texture | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 | No primary ption (Descriptration, D=Deption) Hue_10YR | or secondary indicates to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 | cators of wet | cument the indi | evious inspective were observator or congrains; Location | firm the absence of in PL=Pore Lining, M=Mat | rix) | SIL | | Remarks | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 | No primary ption (Description, D=Deption, D=Deption) Hue 10YR Hue 2.5Y | or secondary indicates to the depth neetion, RM=Reduced Missing Matrix Color (Moist) 2/1 4/1 | eeded to docatrix, CS=Cove | sument the indi red/Coated Sand | evious inspect were observed at the control of the | firm the absence of in: PL=Pore Lining, M=Mat Mottles % Type | rix) | SIL | | Remarks | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | No primary ption (Describeration, D=Deption) Hue_10YR Hue_2.5Y | or secondary indicates to the depth neetion, RM=Reduced Missing Matrix Color (Moist) 2/1 4/1 | eeded to docatrix, CS=Cove % 10 10 neck here if i | eument the indired/Coated Sand | evious inspect vere observered cator or con Grains; Location Moist) Moist) not present): | firm the absence of in: PL=Pore Lining, M=Mat Mottles % Type | Location | SIL C | for Problematic | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | No primary ption (Descritration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol | or secondary indicators or secondary indicators indicat | eeded to doc atrix, CS=Cove | eument the indired/Coated Sand (Color (ID) (ID) (ID) (ID) (ID) (ID) (ID) (ID) | edox | firm the absence of in: PL=Pore Lining, M=Mat Mottles % Type | Location | SIL C | luck (LRR I, J) | : Soils¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | No primary ption (Descritation, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep | or secondary indicators or secondary indicators indicators indicators indicators or secondary indicators indic | eeded to doc atrix, CS=Cove | eument the indired/Coated Sand (South Color (1900)) Color (1900) | edox Matrix | firm the absence of in: PL=Pore Lining, M=Mat Mottles % Type | Location | SIL C Indicators f A9 - 1 cm M | luck (LRR I, J) Prairie Redox (| : Soils¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | No primary ption (Description, D=Deption (Description), D=Deption (Des | or secondary indicators or secondary indicators ibe to the depth neletion, RM=Reduced Minus Matrix Color (Moist) 2/1 4/1 Indicators (chain) | eeded to docatrix, CS=Cove % 10 10 neck here if i | cument the indired/Coated Sand | cator or con Grains; Location Moist) Moist) mot present): edox Matrix Mucky Mineral | firm the absence of in: PL=Pore Lining, M=Mat Mottles % Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sr | luck (LRR I, J) Prairie Redox (urface (LRR G) | : <u>Soils¹</u> LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | Ption (Descritration, D=Deplied Hue_10YR Hue_2.5Y Hus_2.5Y Histosol A2 - Histose Histo Ep. A3 - Histo Ep. A4 - Hydroge | or secondary indicators ibe to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chaipedon stic in Sulfide | eeded to docatrix, CS=Cove 9% 10 10 neck here if i | ument the indired/Coated Sand of Color (100 00 00 00 00 00 00 00 00 00 00 00 00 | edox Matrix Moisty Mineral Gleyed Matrix | firm the absence of in: PL=Pore Lining, M=Mat Mottles % Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F | luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio | : Soils¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr | ption (Descritration, D=Depl Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified | or secondary indicators (chairpedon stice in Sulfide Layers (LRR F) | eeded to doc atrix, CS=Cove | indicators are r S5 - Sandy R S6 - Stripped N F1 - Loamy C F3 - Depletec | evious inspect vere observered of conference | firm the absence of in: PL=Pore Lining, M=Mat Mottles % Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc | luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic | : <u>Soils¹</u> LRR F, G, H) | |
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WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: u-151n42w15-j1 | | | | | |
|---|--|--------------|-----------|------------|---|--|--|--|--|--|
| | | | | | | | | | | |
| VEGETATION | (Species identified in all uppercase are | e non-native | species.) | | | | | | | |
| | Plot size: 30 ft. radius) | | | | | | | | | |
| | Species Name | % Cover | Dominant | Ind.Status | Dominance Test Worksheet | | | | | |
| 1. | Quercus macrocarpa | 20 | Υ | FACU | | | | | | |
| 2. | Populus tremuloides | 5 | Υ | FAC | Number of Dominant Species that are OBL, FACW, or FAC: 1 (A) | | | | | |
| 3. | | | | | `` <i>`</i> | | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata: 4 (B) | | | | | |
| 5. | | | | | Total Name of Both and Opposite Visions Vision Statute. | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B) | | | | | |
| 7. | | | | | reicent of borninant opecies that Ale OBL, I AGW, of I AG. | | | | | |
| | | | | | | | | | | |
| 8. | | | | | Prevalence Index Worksheet | | | | | |
| 9. | | | | | Total % Cover of: Multiply by: | | | | | |
| 10. | J | | | | OBL spp. <u>5</u> x 1 = <u>5</u> | | | | | |
| | Total Cover = | 25 | _ | | FACW spp. 0 x 2 = 0 | | | | | |
| | | | | | FAC spp. 5 x 3 = 15 | | | | | |
| Sapling/Shrub S | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 65 X 4 = 260 | | | | | |
| 1. | Rhamnus cathartica | 10 | Υ | FACU | UPL spp. 60 x 5 = 300 | | | | | |
| 2. | | | | | ··· | | | | | |
| 3. | | | | | Total 135 (A) 580 (B) | | | | | |
| 4. | | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| 5. | | | | | Prevalence Index = B/A = 4.296 | | | | | |
| | | | | | Prevalence maex = B/A = 4.296 | | | | | |
| 6. | _ | | | | | | | | | |
| 7. | | | | | | | | | | |
| 8. | | | | | Hydrophytic Vegetation Indicators: | | | | | |
| 9. | | | | | Rapid Test for Hydrophytic Vegetation | | | | | |
| 10. | | | | | Dominance Test is > 50% | | | | | |
| | Total Cover = | 10 | | | Prevalence Index is ≤ 3.0 * | | | | | |
| | • | | | | Morphological Adaptations (Explain) * | | | | | |
| Herb Stratum (F | Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * | | | | | |
| 1. | Carex pensylvanica | 60 | Υ | NI | | | | | | |
| 2. | Fragaria virginiana | 15 | N | FACU | * Indicators of hydric soil and wetland hydrology must be | | | | | |
| 3. | Trifolium hybridum | 10 | N | FACU | present, unless disturbed or problematic. | | | | | |
| 4. | · | | N | _ | | | | | | |
| | Taraxacum officinale | 10 | | FACU | Definitions of Vegetation Strata: | | | | | |
| 5. | Carex pellita | 5 | N | OBL | - | | | | | |
| 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. | | | | | |
| 15. | T | 400 | | | TYOOUY TITIES 1000) Titles, Togardious of Holgin. | | | | | |
| | Total Cover = | 100 | _ | | | | | | | |
| | | | | | | | | | | |
| - | atum (Plot size: 30 ft. radius) | | | | | | | | | |
| 1. | | | | | | | | | | |
| 2. | | | | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? N | | | | | |
| 5. | | | | | | | | | | |
| 4. | | | | | | | | | | |
| <u> </u> | Total Cover = | 0 | | | | | | | | |
| | | | | | | | | | | |
| Remarks: The vegetation is dominated by non-hydrophytic species and has been moderately grazed. | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Additional Remarks: | | | | | | | | | | |
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