WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | 1 2 0 | | | | | | | | | Date: | 10/10/14 |
|---|--|--|---------------------------|----------------------------------|--|--|--|--|-------------------|---|--|--|
| Applicant: | | L3R Enhridge | | | | | | | | | | Red Lake |
| | Enbridge | | | Outropies (MIDA and DD): MIDA 50 | | | | | | | County: | |
| Investigators | | | | | Subregion (MLRA or LRR): MLRA 56 | | | | | | State: | MN |
| Soil Unit: | I59A NWI Classification: | | | | | | | | | | | |
| Landform: | Talf Local Relief: LL | | | | | | | | | | Sample Point | u-151n42w24-c1 |
| Slope (%): | 0 - 2% | | Latitude: 4 | | | Longitude: | | | Datum: | | | |
| Are climatic/h | hydrologic co | nditions on the sit | te typical fo | or this | s time of yea | r? (If no, ex | olain in rema | arks) | Yes | □ No | Section: | |
| Are Vegetation | on 🖵 Soil | ☐ or Hydrology | □anifica | antly | disturbed? | | Are | normal circun | stances pro | esent? | Township: | |
| Are Vegetation | | ☑ or Hydrology | | | | | | Yes | □No [·] | | Range: | Dir: |
| SUMMARY C | | , , ,, | |) p.o. | | | | | _ | | range. | 5 |
| | | | | L | | | | | Lludria Cai | Is Present? | No | |
| Hydrophytic \ | | | | No . | | | | | | | | 11 10 N- |
| Wetland Hyd | Irology Prese | nt? | | No | | | | | | | nt Within A W | etland? No |
| Remarks: | The upland | sample point is lo | ocated with | nin a r | mowed hayfi | eld. Vege | tation is | dominated by h | Centucky blu | uegrass. | | |
| | | | | | | | | | | | | |
| HYDROLOG | Υ | | | | | | | | | | | |
| | | inatara (Chaok al | II that apply | v. Mir | nimum of on | o primoru | or two o | acandan, raqui | rod\. | | | |
| | | icators (Check all | ıı ınaı appı | y, wiii | ilmum oi on | e primary | or two se | econdary requi | ea): | 0 | | |
| Primary: | | Matar | | | | D11 Calt | Crust | | | Secondary: | | Cail Craaka |
| | □ A1 - Surface Water □ B11 - Salt Crust □ A2 - High Water Table □ B13 - Aquatic Fauna | | | | | | | | B6 - Surface S | Vegetated Concave Surface | | |
| | A3 - Saturation | | | | | C1 - Hydro | | e Odor | | | B10 - Sparsely | |
| 1 5 | B1 - Water M | | | | | C2 - Dry S | | | | | | Rhizospheres on Living Roots (tilled) |
| I | B2 - Sedimen | | | | | | | pheres on Living | Roots (not till | | C8 - Crayfish I | |
| I | B3 - Drift Dep | | | | | C4 - Prese | | | 110010 (1101 1111 | | | n Visible on Aerial Imagery |
| I | B4 - Algal Ma | | | | | C7 - Thin N | | | | | D2 - Geomorp | |
| I = | B5 - Iron Dep | | | | | Other (Exp | | | | | D5 - FAC-Neu | |
| | | n Visible on Aerial Im | magery | | _ | | , | | | | | aved Hummocks (LRR F) |
| | B9 - Water-St | | - 3 - 7 | | | | | | | _ | | , |
| _ | | | | | | | | | | | | |
| Field Observ | vatione: | | | | | | | | | | | |
| | | | _ | | | (! \ | | | | | | |
| Surface Water | | _ | | Depth: | | (in.) | | | Wetland H | lydrology I | Present? | N |
| Water Table | | Yes \square | | Depth: | | (in.) | | | | ., | | <u></u> |
| Saturation Pr | resent? | Yes \square | | Depth: | | (in.) | | | | | | |
| Doscribo Poo | orded Data (6 | tream gauge, mon | itoring woll | Laori | al photos pro | vioue iner | octions) | if available: | | | | |
| | | | | | | | | ii available. | | | | |
| Remarks: No primary or secondary indicators of wetland hydrology were observed. | | | | | | | | | | | | |
| Remarks: | No primary | or secondary man | cators or w | vellar | ia nyarology | were obs | ervea. | | | | | |
| | No primary | or secondary mak | cators or v | vellar | ia riyarology | were obs | ervea. | | | | | |
| SOILS | | · | | | , 0, | | | | | | | |
| SOILS Profile Descri | iption (Descri | be to the depth ne | eeded to d | docum | nent the indic | cator or co | onfirm th | | | | | |
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| SOILS Profile Descri | iption (Descri | be to the depth ne | eeded to d | docum | nent the indic | cator or co | onfirm th | | | | | |
| SOILS Profile Descri | iption (Descri | be to the depth ne | eeded to d | docum | nent the indic | cator or co | onfirm th | ore Lining, M=Matr | | | | |
| SOILS Profile Descri (Type: C=Concer | iption (Descri | be to the depth ne etion, RM=Reduced M Matrix | eeded to d | docum | nent the indic | cator or co Grains; Loca | onfirm the tion: PL=Pe | ore Lining, M=Matr | ix) | Texture | | Remarks |
| SOILS Profile Descri (Type: C=Concer | iption (Descri | be to the depth ne etion, RM=Reduced M Matrix Color (Moist) | eeded to d | docum overed | nent the indic | cator or co Grains; Loca | onfirm the | ore Lining, M=Matr | | Texture | | Remarks |
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| SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-15 13-15 NRCS Hydr | hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep | be to the depth neetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chain in the color in | eeded to d | % 100 70 20 if ind | Color (N Hue 7.5YR icators are n S5 - Sandy Re S6 - Stripped | Cator or co Grains; Loca Moist) 4/6 4/6 ot presen | Mottle % 10 10 11 10 | ore Lining, M=Matr es Type C | Location | FSL SC SC SC Indicators 1 A9 - 1 cm M | luck (LRR I, J) Prairie Redox | c Soils ¹ (LRR F, G, H) |
| SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-15 13-15 NRCS Hydr | ption (Descrintration, D=Deplintration, | be to the depth notetion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chain and the color of the color | eeded to d | % 100 70 20 | nent the indicated Sand Color (Note of Sand Color (Note of Sand Sand Sand Sand Sand Sand Sand Sand | Moist) 4/6 4/6 ot presented ox Matrix ucky Miner. | Mottle % 10 11 11 11 11 11 11 11 11 11 11 11 11 | ore Lining, M=Matr es Type C | Location M | Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S6 | luck (LRR I, J) Prairie Redox (urface (LRR G) | <u>c Soils¹</u> (LRR F, G, H) |
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| SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-15 13-15 NRCS Hydr | ption (Descrintration, D=Depintration, D=Depin | be to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chain and a strict | eeded to d flatrix, CS=Co | % 100 70 20 if ind | Color (N Hue 7.5YR icators are n S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D | Moist) 4/6 4/6 oot presen edox Matrix ucky Miner. leyed Matrix Matrix ark Surface Dark Surfa epressions | Mottle % 10 10 tt): | cre Lining, M=Matr | Location M | Indicators of hard control of hindicators | luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression 2 Vertic Parent Material Shallow Dark S ain in Remarks) | c Soils ¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface |
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| SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-15 13-15 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 S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G | be to the depth netion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chair and a superior an | eeded to d flatrix, CS=Co | % 100 70 20 if ind | Color (National Property Color (National Prope | doist) 4/6 4/6 dot present edox Matrix ucky Miner- leyed Matri Matrix Surface Dark Surface pressions ains Depres | Mottle Mottle | es Type C C RA 72, 73 of LRF | Location M R H) | Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla | luck (LRR I, J) Prairie Redox i Prairie Redox i Prairie Redox i Plains Depression Parent Material Shallow Dark s ain in Remarks) Inversely a company of the problematic. | c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be present, |
| Depth (In.) 0-13 13-15 13-15 NRCS Hydr | ption (Descrintration, D=Depintration, D=Depin | be to the depth no etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LC) cky Peat or Peat (LR) eyed Matrix gravel of a black fine sandy | eeded to d Matrix, CS=Co | % 100 70 20 if ind | icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F8 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla Depth: | Moist) 4/6 doint presented with a surface pressions are personal | Mottle % 10 10 tt): | Type C RA 72, 73 of LRF Hydric So ions. The lowest i | Location M R H) | Indicators of unless disturbed in N | luck (LRR I, J) Prairie Redox i urface (LRR G) Plains Depression Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ed or problematic. | c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be present, |
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WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: u-151n42w24-c1 | | | | |
|--|---|------------|-----------|-------------|--|--|--|--|--|
| - | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| VEGETATION (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft. radius) | | | | | | | | | |
| Tree Stratum (| Species Name | % Cover | Dominant | Ind.Status | Dominance Test Worksheet | | | | |
| 1. | Openes Name | 70 COVE | Dominant | ind.Status | Dominance Test Worksheet | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) | | | | |
| 3. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) | | | | |
| | | | | | T. (D) | | | | |
| 4. | | | | | Total Number of Dominant Species Across All Strata:(B) | | | | |
| 5. | | | | | | | | | |
| 6. | | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) | | | | |
| 7. | | | | | | | | | |
| 8. | | | | | Prevalence Index Worksheet | | | | |
| 9. | | | | | Total % Cover of: Multiply by: | | | | |
| 10. | | | | | OBL spp. $10 	 X 	 1 = 10$ | | | | |
| | Total Cover = | 0 | | | FACW spp. 5 x 2 = 10 | | | | |
| | • | | _ | | FAC spp. $0 	 x 	 3 = 0$ | | | | |
| Sapling/Shrub S | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 100 x 4 = 400 | | | | |
| 1. | | | | | UPL spp. 0 x 5 = 0 | | | | |
| 2. | | | | | ··· | | | | |
| 3. | | | | | Total 115 (A) 420 (B) | | | | |
| 4. | | | | | 1000 (1) <u>120 (</u> D) | | | | |
| 5. | | | | | Prevalence Index = B/A = 3.652 | | | | |
| | | | | | Prevalence Index = B/A = 3.052 | | | | |
| 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 (F | Plot size: 5 ft. radius) | | | | Problem Hydrophytic Vegetation (Explain) * | | | | |
| 1. | Poa pratensis | 70 | Υ | FACU | | | | | |
| 2. | Dactylis glomerata | 10 | N | FACU | * Indicators of hydric soil and wetland hydrology must be | | | | |
| 3. | Carex pellita | 10 | N | OBL | present, unless disturbed or problematic. | | | | |
| 4. | Phleum pratense | 5 | N | FACU | Definitions of Vegetation Strata: | | | | |
| | | | | | Definitions of Vegetation Strata. | | | | |
| 5. | Cirsium arvense | 5 | N | FACU | T | | | | |
| 6 | Melilotus officinalis | 5 | N | FACU | Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. | | | | |
| 7. | Taraxacum officinale | 5 | N | FACU | neight (DBH), regardless of neight. | | | | |
| 8. | Phalaris arundinacea | 5 | N | FACW | | | | | |
| 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. | | | | |
| .0. | Total Cover = | 115 | | | · · · · · · · · · · · · · · · · · · · | | | | |
| | Total Cover – | 110 | _ | | | | | | |
| Wood: Vr - C | otum (Diet size: 20 ftiii) | | | | | | | | |
| | atum (Plot size: 30 ft. radius) | | | | | | | | |
| 1. | | | | | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present?N | | | | |
| 5. | | | | | | | | | |
| 4. | | | | | | | | | |
| | Total Cover = | 0 | | | | | | | |
| Remarks: | Vegetation is dominated by Kentucky bluegra | ass. A few | wetland p | lants are p | present. | | | | |
| | | | · | • | | | | | |
| | | | | | | | | | |
| Additional R | omarke: | | | | | | | | |
| Auditional R | GIIGINS. | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |