WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: | 08/29/14 |
|--|---|--|--|--|--|---|--|------------------|--|---|---|
| Applicant: | | Enbridge | | | | | | | | County: | Marshall |
| Investigators | | BEH/RAJ | | | Subregio | • | or LRR): | MLRA 56 | | State: | MN |
| Soil Unit: | I23A | | | | | | I Classification: | | | | |
| Landform: | Footslope | | 40 | 447040 | Local Relief: | | 2000 | | | Sample Point: | u-157n47w16-k1 |
| Slope (%): | 3 - 7% | | Latitude: 48 | | Longitude | | | Datum: | - NI | | |
| | | nditions on the site | | | • | 1 | | | | Pr0tected002 | |
| Are Vegetation | | □, or Hydrology | • | • | | Are | e normal circum | - | esent? | Township: | D . |
| Are Vegetation | | , , | □aturally p | problematic | ? | | Yes | □ No | | Range: | Dir: |
| SUMMARY C | | | NI. | | | | | Lludria Cail | a Draggest? | No | |
| Hydrophytic ' | _ | | No | | | | | | s Present? | | etland? No |
| Wetland Hyd Remarks: | | | No No | | | | | is this sai | npling Poin | t Within A We | eliano? No |
| Remarks. | Opianu Sam | ple point in a whe | at neid. | | | | | | | | |
| HADBOI OC. | V | | | | | | | | | | |
| HYDROLOG | | | | | | | | | | | |
| _ | | cators (Check all | I that apply; | Minimum o | f one primary | or two se | econdary requir | red): | _ | | |
| <u>Primary</u> | _ | A.L | | | = D44 O.K | 0 | | | Secondary: | | -11 O1 |
| | A1 - Surface \ A2 - High Wat | | | | □ B11 - Salt□ B13 - Aqua | | | | | B6 - Surface S | |
| | A3 - Saturatio | | | | ☐ B13 - Aqua | | | | | B10 - Drainage | /egetated Concave Surface |
| | B1 - Water Ma | | | | ☐ C2 - Dry S | | | | | | Rhizospheres on Living Roots (tille |
| | B2 - Sedimen | | | | | | spheres on Living | Roots (not tille | • - | C8 - Crayfish E | |
| | B3 - Drift Dep | osits | | | | | duced Iron | · | | C9 - Saturation | Visible on Aerial Imagery |
| | B4 - Algal Mat | | | | □ C7 - Thin N | | ace | | | D2 - Geomorph | |
| | B5 - Iron Depo | | | | □ Other (Exp | olain) | | | | D5 - FAC-Neut | |
| | B7 - Inundatio | n Visible on Aerial Im | nagery | | | | | | | D7 - Frost-Hea | ved Hummocks (LRR F) |
| | ba - Waler-Si | allieu Leaves | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | |
| | | V | Day | - 4l- · | (in) | | | | | | |
| Surface Water | | Yes | | oth: | (in.) | | | Wetland H | lydrology F | Present? | N |
| Water Table | | Yes | | oth: | (in.) | | | | | | |
| Saturation P | resent? | Yes □ | De | pth: | (in.) | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | | | | | | | | | | | |
| Describe Rec | orded Data (s | tream gauge, moni | itoring well, a | aerial photos | ` ′ | pections), | if available: | | | | |
| Describe Rec | , | tream gauge, moni | | | , previous insp | ections), | if available: | | | | |
| | , | | | | , previous insp | pections), | if available: | | | | |
| Remarks: | No primary | or secondary hydr | rological ind | icators were | previous inspections of the contract of the co | • | | | | | |
| Remarks: SOILS Profile Descri | No primary ption (Descri | or secondary hydr | rological ind | icators were | e observed. | onfirm th | e absence of in | | | | |
| Remarks: SOILS Profile Descri | No primary ption (Descri | or secondary hydr | rological ind | icators were | e observed. | onfirm th | e absence of in | | | | |
| Remarks: SOILS Profile Descri | No primary ption (Descri | or secondary hydr be to the depth ne etion, RM=Reduced Ma | rological ind | icators were | e observed. | onfirm the | e absence of in ore Lining, M=Matr | | | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary ption (Descri | or secondary hydr be to the depth ne etion, RM=Reduced Ma | rological ind eeded to doo latrix, CS=Cove | cument the ered/Coated S | e observed. indicator or coand Grains; Loca | onfirm the | e absence of in ore Lining, M=Matr | ix) | Toyturo | | Domorko |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary ption (Descri | or secondary hydron be to the depth neetion, RM=Reduced Matrix Color (Moist) | eeded to doo latrix, CS=Cove | cument the ered/Coated S | e observed. | onfirm the | e absence of in ore Lining, M=Matr | | Texture | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary ption (Descri | or secondary hydr be to the depth ne etion, RM=Reduced Ma | eeded to doo | cument the ered/Coated S | e observed. indicator or coand Grains; Loca | onfirm the | e absence of in ore Lining, M=Matr | ix) | Texture FSL | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary ption (Descri | or secondary hydron be to the depth neetion, RM=Reduced Matrix Color (Moist) | eeded to doo | cument the ered/Coated S | e observed. indicator or coand Grains; Loca | onfirm the | e absence of in ore Lining, M=Matr | ix) | | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary ption (Descri | or secondary hydron be to the depth neetion, RM=Reduced Matrix Color (Moist) | eeded to doo | cument the ered/Coated S | e observed. indicator or coand Grains; Loca | onfirm the | e absence of in ore Lining, M=Matr | ix) | | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary ption (Descri | or secondary hydron be to the depth neetion, RM=Reduced Matrix Color (Moist) | eeded to doo | cument the ered/Coated S | e observed. indicator or coand Grains; Loca | onfirm the | e absence of in ore Lining, M=Matr | ix) | | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary ption (Descri | or secondary hydron be to the depth neetion, RM=Reduced Matrix Color (Moist) | eeded to doo | cument the ered/Coated S | e observed. indicator or coand Grains; Loca | onfirm the | e absence of in ore Lining, M=Matr | ix) | | | Remarks |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 | No primary ption (Descri | be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 | eeded to docatrix, CS=Cove | cument the ered/Coated S | e observed. indicator or coand Grains; Loca | onfirm the | e absence of in ore Lining, M=Matr | ix) | | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 | No primary ption (Descrintration, D=Deple | be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 | eeded to docatrix, CS=Cove | cument the ered/Coated S | indicator or coand Grains; Loca | onfirm the | e absence of in ore Lining, M=Matr es Type | ix) | FSL | or Problematic | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 | No primary ption (Descrintration, D=Deple | be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 | eeded to docatrix, CS=Cove | cument the ered/Coated S | indicator or coand Grains; Loca | onfirm the | e absence of in ore Lining, M=Matr es Type | Location | FSL Indicators f | or Problematic | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 NRCS Hydr | No primary Iption (Descriptration, D=Deplete Hue_10YR Fic Soil Field A1- Histosol A2 - Histic Ep | be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (chain) | eeded to docatrix, CS=Cove | icators were cument the ered/Coated S Col OO indicators a S5 - San S6 - Strip | or (Moist) are not presently Redox oped Matrix | onfirm the tion: PL=P | e absence of in ore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast | uck (LRR I, J) Prairie Redox (| : Soils ¹ |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 NRCS Hydr | No primary ption (Descrintration, D=Depleted Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His | be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (characters) | eeded to docatrix, CS=Cove | icators were cument the ered/Coated S Col OO indicators a S5 - San S6 - Strip F1 - Loar | or (Moist) or (Moist) or enot presently Redox oped Matrix ony Mucky Miner | onfirm the tion: PL=P | e absence of in ore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St | uck (LRR I, J) Prairie Redox (urface (LRR G) | : <mark>Soils¹</mark> LRR F, G, H) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger | be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (chain in Sulfide | eeded to docatrix, CS=Cove | icators were cument the ered/Coated S Col OO indicators a S5 - San S6 - Strip F1 - Loai F2 - Loai | or (Moist) The not present dy Redox by Mucky Miner my Gleyed Matrix my Gleyed Matrix | onfirm the tion: PL=P | e absence of in ore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F | uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio | : Soils ¹ |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified | be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (chair) ipedonetic in Sulfide Layers (LRR F) | eeded to docatrix, CS=Cove | icators were cument the ered/Coated S Col Col Col Col Col Col Col Col Col Co | or (Moist) The not present dy Redox oped Matrix my Mucky Miner my Gleyed Matrix leted Matrix | mottle % tion: PL=P | e absence of in ore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc | uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic | : <mark>Soils¹</mark> LRR F, G, H) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue | be to the depth ne etion, RM=Reduced Marix Matrix Color (Moist) 2/1 Indicators (characters) ipedon etic n Sulfide Layers (LRR F) ck (LRR FGH) | eeded to doo latrix, CS=Cove | icators were cument the ered/Coated S 6 Col 00 indicators a S5 - San S6 - Strip F1 - Loai F2 - Loai F2 - Loai F3 - Dep F6 - Red | or (Moist) The not present dy Redox oped Matrix my Mucky Miner my Gleyed Matrix ox Dark Surface | onfirm the tion: PL=P | e absence of in ore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P | uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic arent Material | ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete | be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 Indicators (characters) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface | eeded to doo latrix, CS=Cove | icators were cument the ered/Coated S Col Col Col Col Col Col Col Col Col Co | or (Moist) The not present dy Redox pped Matrix my Mucky Miner my Gleyed Matrix ox Dark Surface leted Dark | Mottle % al ax ace | e absence of in ore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic arent Material Shallow Dark S | ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue A11 - Deplete A12 - Thick D | be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface | eeded to doo latrix, CS=Cove | icators were cument the ered/Coated S 6 Col 00 indicators a S5 - San S6 - Strip F1 - Loai F2 - Loai F2 - Loai F3 - Dep F6 - Red F7 - Dep F8 - Red | or (Moist) | mottle Mottle % tion: PL=Pi Mottle % al x ace | e absence of in ore Lining, M=Matr | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic arent Material | ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mi | be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface | eeded to doo latrix, CS=Cove | icators were cument the ered/Coated S 6 Col 00 indicators a S5 - San S6 - Strip F1 - Loai F2 - Loai F2 - Loai F3 - Dep F6 - Red F7 - Dep F8 - Red | or (Moist) | mottle Mottle % tion: PL=Pi Mottle % al x ace | e absence of in ore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressioned Vertic arent Material Shallow Dark S | ESoils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-23 NRCS Hydr | Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Muc | be to the depth neetion, RM=Reduced Marix Matrix Color (Moist) 2/1 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR) cky Peat or Peat (LR) | eeded to doo latrix, CS=Cove | icators were cument the ered/Coated S 6 Col 00 indicators a S5 - San S6 - Strip F1 - Loai F2 - Loai F2 - Loai F3 - Dep F6 - Red F7 - Dep F8 - Red | or (Moist) | mottle Mottle % tion: PL=Pi Mottle % al x ace | e absence of in ore Lining, M=Matr | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain | uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks) | ESoils 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-157n47w16-k1 | | | | | |
|---------------------|--|-----------------------|------------------|---|--|--|--|--|--|
| | | | | · | | | | | |
| VEGETATION | | are non-native specie | es.) | | | | | | |
| Tree Stratum (I | Plot size: 30 ft. radius) | | | | | | | | |
| . r | <u>Species Name</u> | % Cover Domi | inant 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:(B) | | | | | |
| 5. | | | | | | | | | |
| 6. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B) | | | | | |
| 7. | | | | | | | | | |
| 8. | | | | Prevalence Index Worksheet | | | | | |
| 9. | | | | Total % Cover of: Multiply by: | | | | | |
| 10. | | | | OBL spp 0 | | | | | |
| | Total Cover | = 0 | | FACW spp. $0 	 x 2 = 0$ | | | | | |
| | | | | FAC spp. $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$ 15 | | | | | |
| Sapling/Shrub S | Stratum (Plot size: 15 ft. radius) | | | OBL spp. 0 | | | | | |
| 1. | Acer negundo | 5 | Y FAC | UPL spp. 85 $X 5 = 425$ | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | Total 90 (A) 440 (B) | | | | | |
| 4. | | | | | | | | | |
| 5. | | | | Prevalence Index = B/A = 4.889 | | | | | |
| 6. | | | | | | | | | |
| 7. | | | | | | | | | |
| 8. | | | | Hydrophytic Vegetation Indicators: | | | | | |
| 9. | | | | Rapid Test for Hydrophytic Vegetation | | | | | |
| 10. | | | | Dominance Test is > 50% | | | | | |
| | Total Cover | = 5 | | Prevalence Index is ≤ 3.0 * | | | | | |
| | | | | Morphological Adaptations (Explain) * | | | | | |
| Herb Stratum (F | Plot size: 5 ft. radius) | | | Problem Hydrophytic Vegetation (Explain) * | | | | | |
| 1. | Triticum aestivum | 85 | Y NI | | | | | | |
| 2. | | | | * Indicators of hydric soil and wetland hydrology must be | | | | | |
| 3. | | | | present, unless disturbed or problematic. | | | | | |
| 4. | | H | | 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. | | 1 | | | | | | | |
| 14. | | | | | | | | | |
| 15. | | | | Woody Vines - All woody vines, regardless of height. | | | | | |
| 10. | Total Cover | = 85 | | | | | | | |
| | Total Cover | | | | | | | | |
| Moody Vino Str | ratum (Plot size: 30 ft. radius) | | | | | | | | |
| 1 | atum (Fiot size. 30 ft. radius) | | | | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | Hydrophytic Vogotation Procent? | | | | | |
| 5. 5. | <u> </u> | | | Hydrophytic Vegetation Present? N | | | | | |
| 5. 4. | <u> </u> | 1 | | | | | | | |
| 4. | Total Cover | = 0 | | | | | | | |
| Pomorko: | Sample point dominated by cultivated whe | | ovolder sood | lings | | | | | |
| Remarks: | Sample point dominated by cultivated whe | at and scattered b | oxeidei seed | ings. | | | | | |
| | | | | | | | | | |
| | _ | | | | | | | | |
| Additional Remarks: | | | | | | | | | |
| | | | | | | | | | |
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