WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | | Date: | 07/07/14 |
|--|--|--|--|--|--|--|--|--|---|---|---|---|
| Applicant: | | Enbridge | | | | | | | | | County: | Kittson |
| Investigators | : | BEH/BCS | | | | Subregion | n (MLRA | or LRR): | MLRA 56 | | State: | MN |
| Soil Unit: | I132a | • | | | | ŭ | | Classification: | | | | · |
| Landform: | Talf | | | | Loc | cal Relief: | VL | | | | Sample Point: | u-159n49w5-b1 |
| Slope (%): | 0 - 2% | | Latitude: 48 | 8.61935 | 212 | Longitude: | -96.999 | 8051837 | Datum: | | | |
| Are climatic/h | nydrologic co | nditions on the sit | te typical fo | or this tin | ne of yea | | | | □Yes | ☑ No | Section: | |
| Are Vegetation | on 🛭 Soil | ☐ or Hydrology | □gnifica | antly dist | turbed? | | Are | normal circum | stances pr | esent? | Township: | |
| Are Vegetation | | ☐ or Hydrology | | | | | | Yes | □No | | Range: | Dir: |
| SUMMARY C | | , , ,, | | | | | | | | | Ü | |
| Hydrophytic \ | Vegetation P | resent? | No | 0 | | | | | Hvdric Soi | Is Present? | ' No | |
| Wetland Hyd | | | No | | | | | | | | nt Within A We | etland? No |
| Remarks: | | | | | n field wit | h a large | compone | ent of pennycre | | | | lume of precipitation in recent |
| HYDROLOGY | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | icators (Check all | I that apply | /; Minimi | um of on | e primary | or two se | econdary requir | ed): | | | |
| Primary: | : A1 - Surface \ | Notor | | | | B11 - Salt (| Cruet | | | Secondary: | B6 - Surface S | oil Cracks |
| | A2 - High Wa | | | | | B13 - Aqua | | | | | | Vegetated Concave Surface |
| _ | A3 - Saturation | | | | | C1 - Hydro | | e Odor | | | B10 - Drainage | |
| | B1 - Water M | arks | | | | C2 - Dry Se | eason Wa | ter Table | | | C3 - Oxidized I | Rhizospheres on Living Roots (tilled |
| | B2 - Sedimen | | | | | | | pheres on Living | Roots (not till | | C8 - Crayfish E | |
| | B3 - Drift Dep | | | | | C4 - Prese | | | | | | Visible on Aerial Imagery |
| | B4 - Algal Ma B5 - Iron Dep | | | | | C7 - Thin M Other (Expl | | ice | | | D2 - Geomorpl D5 - FAC-Neut | |
| | | n Visible on Aerial Im | nagery | | | Other (Exp | iaiii) | | | | | ived Hummocks (LRR F) |
| | B9 - Water-St | | ago. y | | | | | | | _ | 2 | (2.4.4.) |
| | | | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | | |
| Surface Water | er Present? | Yes 🔲 | De | epth: | | (in.) | | | M-41 | leaders be seen | D 40 | NI. |
| Water Table | Present? | Yes \square | De | epth: | | (in.) | | | wetiand F | Hydrology | Present? | N |
| Saturation Pr | | Yes 🗆 | | epth: | | (in.) | | | | | | - |
| Dogoribo Boo | orded Data (a | | | · — | | . , | | | | | | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No primary hydrological indicators were observed; soil surface cracking is present. | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | |
| Remarks: | | | | | | | | | | | | |
| Remarks: | No primary | hydrological indica | ators were | observe | ed; soil su | urface cra | cking is p | present. | dicators) | | | |
| Remarks: SOILS Profile Descri | No primary | hydrological indicate be to the depth ne | ators were | observe | ed; soil su | urface crac | cking is posterior | present. e absence of in | | | | |
| Remarks: SOILS Profile Descri | No primary | hydrological indica | ators were | observe | ed; soil su | urface crac | cking is posterior | present. e absence of in | | | | |
| Remarks: SOILS Profile Descri | No primary | hydrological indicate be to the depth ne | ators were | observe | ed; soil su | urface crac | cking is posterior | present. e absence of in | | | | |
| Remarks: SOILS Profile Descri | No primary | hydrological indicates be to the depth ne | ators were eeded to do latrix, CS=Cov | observe | ed; soil su | urface crac cator or co Grains; Locat | onfirm the | present. e absence of in | | Texture | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary | hydrological indicate be to the depth neetion, RM=Reduced M Matrix | eeded to do | ocument ocument | ed; soil su t the indicated Sand C | urface crac cator or co Grains; Locat | onfirm the | present. e absence of in ore Lining, M=Matri | (x) | Texture C | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 | No primary ption (Descriptration, D=Depl | be to the depth ne etion, RM=Reduced M Matrix Color (Moist) | ators were eeded to do latrix, CS=Cov | ocument vered/Coa | t the indicated Sand C | urface cran | onfirm the | present. e absence of in ore Lining, M=Matri es Type | Location | С | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer | No primary ption (Descri | be to the depth ne etion, RM=Reduced M Matrix Color (Moist) | ators were eeded to do latrix, CS=Cov | ocument vered/Coa % 100 90 Hu | t the indicated Sand C | cator or co Grains; Locat Moist) | onfirm the | e absence of in ore Lining, M=Matri es Type | Location M | C C | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 | Ption (Descriptration, D=Depl | be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 | ators were eeded to do latrix, CS=Cov | ocumentovered/Coa % 100 90 Hu Hu | t the indicated Sand C | urface cran | onfirm the | present. e absence of in ore Lining, M=Matri es Type | Location | C C | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 | No primary ption (Descriptration, D=Depl | be to the depth ne etion, RM=Reduced M Matrix Color (Moist) | ators were eeded to do latrix, CS=Cov | ocument vered/Coa % 100 90 Hu | t the indicated Sand C | cator or co Grains; Locat Moist) | onfirm the | e absence of in ore Lining, M=Matri es Type | Location M | C C | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 | Ption (Descriptration, D=Depl | be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 | ators were eeded to do latrix, CS=Cov | ocumentovered/Coa % 100 90 Hu Hu | t the indicated Sand C | cator or co Grains; Locat Moist) | onfirm the | e absence of in ore Lining, M=Matri es Type | Location M | C C | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 | ption (Descriptration, D=Depi | hydrological indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 | eeded to do datrix, CS=Cov | ocument wered/Coa % 100 90 Hu Hu | t the indicated Sand C Color (N Le_10YR Le_10YR | cator or co Grains; Locat Moist) 5/6 2/1 | onfirm the constructions: PL=Pe Mottle 2 8 | e absence of in ore Lining, M=Matri es Type C C | Location M | C C | | Remarks |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 | ption (Descriptration, D=Depi | hydrological indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 | ators were eeded to do latrix, CS=Cov | ocument wered/Coa % 100 90 Hu Hu | t the indicated Sand C Color (N Le_10YR Le_10YR | cator or co Grains; Locat Moist) 5/6 2/1 | onfirm the constructions: PL=Pe Mottle 2 8 | e absence of in ore Lining, M=Matri es Type | Location M | C C C | | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | ption (Descriptation, D=Depl | hydrological indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 | eeded to do datrix, CS=Cov | ocumenti wered/Coa % 100 90 Hu 100 1100 | t the indidated Sand Color (No. 100) Color (No. 100) Leg 10YR tors are no. 100) | cator or co crains; Locat Moist) 5/6 2/1 ot present | onfirm the constructions: PL=Pe Mottle 2 8 | e absence of in ore Lining, M=Matri es Type C C | Location M M | C C C | for Problematic | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | ption (Descritration, D=Depl Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol | be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 5/3 2/1 Indicators (ch | eeded to do datrix, CS=Cov | ocumentivered/Coa % 100 90 Hu 100 1100 1100 1100 1100 1100 1100 110 | t the indidated Sand O Color (N ie_10YR ie_10YR tors are n - Sandy Re | cator or co crains; Locat Moist) 5/6 2/1 ot present | onfirm the constructions: PL=Pe Mottle 2 8 | e absence of in ore Lining, M=Matri es Type C C | Location M M | C C C C | luck (LRR I, J) | : Soils ¹ |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | ption (Descritration, D=Depl Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep | be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 5/3 Indicators (chippedon | eeded to do datrix, CS=Cov | ocumentivered/Coa % 100 90 Hu 100 1100 1100 1100 1100 1100 1100 110 | t the indidated Sand O Color (N ie_10YR ie_10YR tors are n - Sandy Re-Stripped | cator or confirmation of present edox Matrix | onfirm the construction PL=Point Mottle % 2 8 | e absence of in ore Lining, M=Matri es Type C C | Location M M | C C C C Indicators 1 A9 - 1 cm M | luck (LRR I, J) Prairie Redox (L | : Soils ¹ |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | No primary ption (Descritration, D=Depl Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His | hydrological indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chains) | eeded to do datrix, CS=Cov | observe ocument vered/Coa % 100 90 Hu 100 if indicat \$55 \$66 \$71 | t the indicated Sand C Color (N Le_10YR Le_10YR Loand Re_10YR - Sandy Re - Stripped - Loamy M | cator or coefficients, Locate Moist) 5/6 2/1 ot presentedox Matrix ucky Minera | onfirm the confirm the confirmation of the confirmation that confirmation that confirmation the confirmation that confirmation the confirmation that confirmation the confirmation that confirmation that confirmation the confi | e absence of in ore Lining, M=Matri es Type C C | Location M M | CCCCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | luck (LRR I, J) Prairie Redox (L urface (LRR G) | : <u>Soils¹</u> RR F, G, H) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | Ption (Descriptation, D=Deplication, | hydrological indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chains) | eeded to do datrix, CS=Cov | ocument vered/Coa % 100 90 Hu 100 if indicat \$55 \$61 \$61 \$72 | t the indicated Sand C Color (N Le_10YR Le_10YR Loand Re_10YR - Sandy Re - Stripped - Loamy M | cator or co Grains; Locat Moist) 5/6 2/1 ot present | onfirm the confirm the confirmation of the confirmation that confirmation that confirmation the confirmation that confirmation the confirmation that confirmation the confirmation that confirmation that confirmation the confi | e absence of in ore Lining, M=Matri es Type C C | Location M M | CCCCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio | : Soils ¹ |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | Ption (Descritration, D=Depl Hue_10YR Hue_2.5Y Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A9 - 1 cm Mu | be to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chipedon in Sulfide Layers (LRR F) ck (LRR FGH) | eeded to do latrix, CS=Con | 00cument wered/Coa % 100 90 Hu 100 100 if indicat \$56 \$66 \$71 \$72 \$73 \$75 \$76 \$76 \$76 | t the indicated Sand Color (No. 100 to 100 t | cator or co Grains; Locat Moist) 5/6 2/1 ot present | onfirm the confirm the confirmation and confirmation the confirmation that confirmation the confirmation t | e absence of in ore Lining, M=Matri es Type C C | Location M M | Indicators 1 A9 - 1 cm M A16 - Cost f S7 - Dark S F16 - High F F16 - Reduc | fuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ded Vertic Parent Material | S Soils 1 RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | No primary ption (Descriptration, D=Deplete Intration, D=Deplete Intra | hydrological indication be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chairm of the color o | eeded to do latrix, CS=Con | % 100 90 Hu 100 | t the indicated Sand C Color (N Le_10YR Le_10YR Loany Re-Stripped Loamy G-Depleted Redox D-Depleted Redox D-Depleted | dedox Matrix ucky Minera leyed Matrix Matrix Park Surface Dark Surface Craft Control of the Cont | onfirm the confirm the confirmation and confirmation the confirmation that confirmation the confirmation t | e absence of in ore Lining, M=Matri es Type C C | Location M M | Indicators 1 | luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ped Vertic Parent Material Shallow Dark S | S Soils 1 RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | ption (Descriptation, D=Deplied Hue_10YR Hue_2.5Y 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 | hydrological indication be to the depth neetion, RM=Reduced Minimum Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chairman depth neetion, RM=Reduced Minimum Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chairman depth neetion) Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface | eeded to do latrix, CS=Con | 0bserve 0cument vered/Coa % 100 90 Hu 100 100 1100 1100 1100 1100 1100 1100 | t the indicated Sand C Color (N Le 10YR Le 10YR Loany G Stripped Loany G Depleted Redox D Depleted Redox D | Andrix Moist) 5/6 2/1 ot present edox Matrix ucky Minera leyed Matrix Matrix arrix Brak Surface Dark Surface pressions | onfirm the confirm the confirmation that confirm the confirmation that confirmation that confirmation the confirmatio | e absence of in ore Lining, M=Matri es Type C C | Location M M C C C C C C C C C C C C C C C C C | Indicators 1 | fuck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ded Vertic Parent Material | S Soils 1 RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | ption (Descriptation, D=Deplination, | be to the depth neetion, RM=Reduced Mineral Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chairman and chairman and ch | eeded to do latrix, CS=Con | 0bserve 0cument vered/Coa % 100 90 Hu 100 100 1100 1100 1100 1100 1100 1100 | t the indicated Sand C Color (N Le 10YR Le 10YR Loany G Stripped Loany G Depleted Redox D Depleted Redox D | Andrix Moist) 5/6 2/1 ot present edox Matrix ucky Minera leyed Matrix Matrix arrix Brak Surface Dark Surface pressions | onfirm the confirm the confirmation that confirm the confirmation that confirmation that confirmation the confirmatio | e absence of in ore Lining, M=Matri es Type C C | Location M M C C C C C C C C C C C C C C C C C | Indicators 1 | luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ped Vertic Parent Material Shallow Dark S | S Soils 1 RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | Ption (Description | hydrological indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (L | eeded to do datrix, CS=Cov | 0bserve 0cument vered/Coa % 100 90 Hu 100 100 1100 1100 1100 1100 1100 1100 | t the indicated Sand C Color (N Le 10YR Le 10YR Loany G Stripped Loany G Depleted Redox D Depleted Redox D | Andrix Moist) 5/6 2/1 ot present edox Matrix ucky Minera leyed Matrix Matrix arrix Brak Surface Dark Surface pressions | onfirm the confirm the confirmation that confirm the confirmation that confirmation that confirmation the confirmatio | e absence of in ore Lining, M=Matri es Type C C | Location M M C C C C C C C C C C C C C C C C C | Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla | luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material 'Shallow Dark S ain in Remarks) | E: Soils ¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Sturface |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | Ption (Description | hydrological indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR cky Peat or Peat (LR) | eeded to do datrix, CS=Cov | 0bserve 0cument vered/Coa % 100 90 Hu 100 100 1100 1100 1100 1100 1100 1100 | t the indicated Sand C Color (N Le 10YR Le 10YR Loany G Stripped Loany G Depleted Redox D Depleted Redox D | Andrix Moist) 5/6 2/1 ot present edox Matrix ucky Minera leyed Matrix Matrix arrix Brak Surface Dark Surface pressions | onfirm the confirm the confirmation that confirm the confirmation that confirmation that confirmation the confirmatio | e absence of in ore Lining, M=Matri es Type C C | Location M M C C C C C C C C C C C C C C C C C | Indicators 1 A9 - 1 cm N A16 - Cost I S7 - Dark S F16 - High F F18 - Reduc TF12 - Very Other (Expla | luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material 'Shallow Dark S ain in Remarks) | S Soils 1 RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | Pition (Descriptation, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S3 - 5 cm Mu | hydrological indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR cky Peat or Peat (LR) | eeded to do datrix, CS=Cov | 0bserve 0cument vered/Coa % 100 90 Hu 100 100 1100 1100 1100 1100 1100 1100 | t the indicated Sand C Color (N Le 10YR Le 10YR Loany G Stripped Loany G Depleted Redox D Depleted Redox D | Andrix Moist) 5/6 2/1 ot present edox Matrix ucky Minera leyed Matrix Matrix arrix Brak Surface Dark Surface pressions | onfirm the confirm the confirmation that confirm the confirmation that confirmation that confirmation the confirmatio | e absence of in ore Lining, M=Matri es Type C C | Location M M C C C C C C C C C C C C C C C C C | Indicators 1 A9 - 1 cm N A16 - Cost I S7 - Dark S F16 - High F F18 - Reduc TF12 - Very Other (Expla | duck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic Sed Vertic Parent Material Shallow Dark S Sain in Remarks) | E: Soils ¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Sturface |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | Pition (Descriptation, D=Deplete 10 Pition) Hue 10YR Hue 2.5Y Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratified A1- Thick D S1- Sandy M S3- 5 cm Mu S4- Sandy G | hydrological indicate be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chair) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LR cky Peat or Peat (LR cky Peat or Peat (LR) | eeded to do datrix, CS=Cov | 0bserve 0cument vered/Coa % 100 90 Hu 100 100 1100 1100 1100 1100 1100 1100 | t the indicated Sand Color (National Sand Sand Color (National Sand Sand Sand Sand Sand Sand Sand Sand | Andrix Moist) 5/6 2/1 ot present edox Matrix ucky Minera leyed Matrix Matrix arrix Brak Surface Dark Surface pressions | onfirm the confirm the confirmation that confirm the confirmation that confirmation that confirmation the | e absence of in one Lining, M=Matri | Location M M C C C C C C C C C C C C C C C C C | Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High F TF2 - Red F TF12 - Very Other (Expla | duck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic Sed Vertic Parent Material Shallow Dark S Sain in Remarks) | E: Soils ¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Sturface |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-15 15-20 NRCS Hydri | ption (Descritration, D=Depl Hue_10YR Hue_2.5Y 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 neetion, RM=Reduced Mineral Matrix Color (Moist) 2/1 5/3 2/1 Indicators (chairman and a stick and a sufface ucky Mineral lucky Peat or Peat (LR leyed Matrix | eeded to do latrix, CS=Con 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | ocument wered/Coa % | t the indicated Sand Color (National Sandy Research | cator or co Grains; Locat Moist) 5/6 2/1 ot present edox Matrix Matrix Matrix Matrix Ark Surface Dark Surface pressions ains Depres | monfirm the confirm the confirmation that confirm the confirmation that confirmation the conf | e absence of in ore Lining, M=Matri es Type C C C Hydric Soi | Location M M C C C C C C C C C C C C C C C C C | Indicators 1 A9 - 1 cm M A16 - Cost R S7 - Dark S F16 - High F F18 - Reduc TF12 - Very Other (Expla | duck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Led Vertic Parent Material Shallow Dark S ain in Remarks) Invydrophytic vegetat and or problematic. | E: Soils ¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Sturface |

WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | L3R | | | | Sample Point: u-159n49w5-b1 | | | | |
|---|--|--------------|-----------|------------|---|--|--|--|--|
| | | | | | | | | | |
| VEGETATIO | N (Species identified in all uppercase are | e non-native | species.) | | | | | | |
| Tree Stratum (| (Plot size: 30 ft. radius) | | | | | | | | |
| | Species Name | % Cover | Dominant | Ind.Status | Dominance Test Worksheet | | | | |
| 1. | | | | | | | | | |
| 2. | | | | | Number of Dominant Species that are OBL, FACW, or FAC: 0 (A) | | | | |
| 3. | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| 4. | - | | | | Total Number of Dominant Species Across All Strata: 2 (B) | | | | |
| | | | | | Total Number of Dominant Species Across All Strata(D) | | | | |
| 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 | | | | |
| 10. | Total Cover = | 0 | | | FACW spp. 5 x 2 = 10 | | | | |
| | Total Cover = | | _ | | FAO : : : : : : : : : : : : : : : : : : : | | | | |
| | | | | | FAC spp. 0 x 3 = 0 | | | | |
| | Stratum (Plot size: 15 ft. radius) | | | | FACU spp. 15 x 4 = 60 | | | | |
| 1. | | | | | UPL spp. 20 | | | | |
| 2. | | | | | | | | | |
| 3. | | | | | Total 40 (A) 170 (B) | | | | |
| 4. | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| 5. | | | | | Prevalence Index = B/A = 4.250 | | | | |
| | | | | | 1 TOVAIGNOC MAGA = DIA = 4.200 | | | | |
| 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) * | | | | |
| Llash Charters (| District of the services | | | | | | | | |
| | Plot size: 5 ft. radius) | | Y | NII. | Problem Hydrophytic Vegetation (Explain) * | | | | |
| 1. | Glycine max | 20 | | NI | * Indicators of brodits and modern decides a second by | | | | |
| 2. | Thlaspi arvense | 10 | Y | FACU | * Indicators of hydric soil and wetland hydrology must be | | | | |
| 3. | Persicaria pensylvanica | 5 | N | FACW | present, unless disturbed or problematic. | | | | |
| 4. | Amaranthus retroflexus | 5 | N | FACU | 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. | | | | _ | | | | | |
| | | | | | Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. | | | | |
| 9. | | | | | Sapling/Snrub - Woody plants less than 3 in. DBH, regardless of neight. | | | | |
| 10. | | | | | | | | | |
| 11. | | | | | | | | | |
| 12. | | | | | Herb - All herbaceous (non-woody) plants, regardless of size. | | | | |
| 13. | | - | | | | | | | |
| 14. | | | | | | | | | |
| 15. | 1 | | | | Woody Vines - All woody vines, regardless of height. | | | | |
| 13. | T | | | | 1100uy 111103 | | | | |
| | Total Cover = | 40 | | | | | | | |
| | | | | | | | | | |
| Woody Vine Sti | ratum (Plot size: 30 ft. radius) | | | | | | | | |
| 1. | | · | | | | | | | |
| 2. | | | | | | | | | |
| 3. | | | | | Hydrophytic Vegetation Present? N | | | | |
| 5. | | | | | Tryanophysio rogotation ricoontr | | | | |
| | | | | | | | | | |
| 4. | | | | | | | | | |
| Total Cover = 0 | | | | | | | | | |
| Remarks: The sample point is dominated by soybean and pennycress. | | | | | | | | | |
| | | | | | | | | | |
| | - | | | | | | | | |
| Additional | Jomarka: | | | | | | | | |
| Additional Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |