WETLAND DETERMINATION DATA FORM Great Plains Region

Applicant: Enbridge Curve: Red Lake Investigators: LEB/DGL Subregion (MLRA or LRR): MLRA 56 State:: MN Soll Unit: ISA NWI Classification: State:: MN Landform: Side slope Local Relief: VL Sample Point: u-151n42w15-s1 Sope (%): O : 2% Latitude: 47.905227 Longitude: -96.017505 Datum:: Sector: Township: Are Vegetation Soll Or Hydrology Ignificantly disturbed? Are normal circumstances present? Rage:: Dir: VMdohydrology Ceptitiones Mo Is This Sampling Point Within A Wetland? No SUMMARY OFFINDUSE Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Be - Surface Soil Cracks Metland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Be - Surface Soil Cracks Be - Surface Soil Cracks Metland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required): Be - Surface Soil Cracks Be - Surface Soil Cracks Mo Soil on the set on the set on the secondary in the secondary i												
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B9 - Water-Stained Leaves Field Observations: Surface Water Present? Yes Depth:		B5 - Iron Dep	osits			Other (Exp	lain)				D5 - FAC-Neu	tral Test
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A1- Histosol S5 - Sandy Redox A9 - 1 cm Muck (LRR I, J) A2 - Histic Epipedon S6 - Stripped Matrix A9 - 1 cm Muck (LRR F, G, H) A3 - Black Histic F1 - Loamy Mucky Mineral S7 - Dark Surface (LRR G) A4 - Hydrogen Sulfide F2 - Loamy Gleyed Matrix S7 - Dark Surface (LRR G) A5 - Stratified Layers (LRR F) F3 - Depleted Matrix F18 - Reduced Vertic A1 - Depleted Below Dark Surface F7 - Depleted Dark Surface TF2 - Red Parent Material A12 - Thick Dark Surface F8 - Redox Depressions TF12 - Very Shallow Dark Surface S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S2 - 2.5 cm Mucky Peat or Peat (LRR F, H) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S3 - 5 cm Mucky Peat or Peat (LRR F, H) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S2 - 2.5 cm Mucky Peat or Peat (LRR F, H) S3 - 5 cm Mucky Peat or Peat (LRR F, H) S4 - Sandy Gleyed Matrix Depth: Hydric Soil Present? Y Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No primary ption (Descrintration, D=Depl Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to doco atrix, CS=Cove	ument the ind red/Coated Sand	icator or co Grains; Loca	erved. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SICL		Remarks
A1- Histosol S5 - Sandy Redox A9 - 1 cm Muck (LRR I, J) A2 - Histic Epipedon S6 - Stripped Matrix A9 - 1 cm Muck (LRR F, G, H) A3 - Black Histic F1 - Loamy Mucky Mineral S7 - Dark Surface (LRR G) A4 - Hydrogen Sulfide F2 - Loamy Gleyed Matrix S7 - Dark Surface (LRR G) A5 - Stratified Layers (LRR F) F3 - Depleted Matrix F18 - Reduced Vertic A1 - Depleted Below Dark Surface F7 - Depleted Dark Surface TF2 - Red Parent Material A12 - Thick Dark Surface F8 - Redox Depressions TF12 - Very Shallow Dark Surface S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S2 - 2.5 cm Mucky Peat or Peat (LRR F, H) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S3 - 5 cm Mucky Peat or Peat (LRR F, H) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S2 - 2.5 cm Mucky Peat or Peat (LRR F, H) S3 - 5 cm Mucky Peat or Peat (LRR F, H) S4 - Sandy Gleyed Matrix Depth: Hydric Soil Present? Y Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No primary ption (Descrintration, D=Depl Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to doco atrix, CS=Cove	ument the ind red/Coated Sand	icator or co Grains; Loca	erved. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SICL		Remarks
A1- Histosol S5 - Sandy Redox A9 - 1 cm Muck (LRR I, J) A2 - Histic Epipedon S6 - Stripped Matrix A9 - 1 cm Muck (LRR F, G, H) A3 - Black Histic F1 - Loamy Mucky Mineral S7 - Dark Surface (LRR G) A4 - Hydrogen Sulfide F2 - Loamy Gleyed Matrix F16 - High Plains Depressions (LRR H, outside MLRA 72, 73) A5 - Stratified Layers (LRR F) F6 - Redox Dark Surface F16 - High Plains Depressions (MLRA 72, 73 of LRR H) A9 - 1 cm Muck (LRR FGH) F76 - Depleted Dark Surface TF12 - Very Shallow Dark Surface A11 - Depleted Below Dark Surface F8 - Redox Depressions TF16 - High Plains Depressions S1 - Sandy Mucky Mineral F76 - Depleted Dark Surface Other (Explain in Remarks) S2 - 2.5 cm Mucky Peat or Peat (LRR F, H) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S2 - 2.5 cm Mucky Peat or Peat (LRR F) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S3 - 5 cm Mucky Peat or Peat (LRR F) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S4 - Sandy Gleyed Matrix Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14	No primary ption (Descrintration, D=Depl Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1	eded to doco atrix, CS=Cove	ument the ind red/Coated Sand	icator or co Grains; Loca	erved. onfirm the tion: PL=Pe Mottle %	e absence of in ore Lining, M=Matr es Type	Location	SICL		Remarks
A2 - Histic Epipedon S6 - Stripped Matrix A16 - Coast Prairie Redox (LRR F, G, H) A3 - Black Histic F1 - Loamy Mucky Mineral S7 - Dark Surface (LRR G) A4 - Hydrogen Sulfide F2 - Loamy Gleyed Matrix F16 - High Plains Depressions (LRR H, outside MLRA 72, 73) A5 - Stratified Layers (LRR F) F3 - Depleted Matrix F18 - Reduced Vertic A9 - 1 cm Muck (LRR FGH) F6 - Redox Dark Surface TF2 - Red Parent Material A11 - Depleted Below Dark Surface F7 - Depleted Dark Surface TF12 - Very Shallow Dark Surface A12 - Thick Dark Surface F8 - Redox Depressions Other (Explain in Remarks) S1 - Sandy Mucky Peat or Peat (LRR F, G, H) F16 - High Plains Depresent? 'Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	No primary ption (Descri tration, D=Depi Hue_10YR Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eded to doc atrix, CS=Cove	ument the ind red/Coated Sand Color 0 3 Hue_10YF	Moist	erved.	e absence of in ore Lining, M=Matr es Type C	Location	SICL		Remarks
A3 - Black Histic F1 - Loamy Mucky Mineral S7 - Dark Surface (LRR G) A4 - Hydrogen Sulfide F2 - Loamy Gleyed Matrix F16 - High Plains Depressions (LRR H, outside MLRA 72, 73) A5 - Stratified Layers (LRR F) F3 - Depleted Matrix F18 - Reduced Vertic A9 - 1 cm Muck (LRR FGH) F6 - Redox Dark Surface F17 - Depleted Dark Surface A11 - Depleted Blow Dark Surface F7 - Depleted Dark Surface TF2 - Red Parent Material A12 - Thick Dark Surface F8 - Redox Depressions TF12 - Very Shallow Dark Surface S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Other (Explain in Remarks) S2 - 2.5 cm Mucky Peat or Peat (LRR F) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18	No primary ption (Descri tration, D=Depi Hue_10YR Hue_10YR	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2	eded to doc atrix, CS=Cove	ument the ind red/Coated Sand Color 0 3 Hue_10YF	Moist	erved.	e absence of in ore Lining, M=Matr es Type C	Location	SICL SL	or Problematic	
A4 - Hydrogen Sulfide F2 - Loamy Gleyed Matrix F16 - High Plains Depressions (LRR H, outside MLRA 72, 73) A5 - Stratified Layers (LRR F) F3 - Depleted Matrix F18 - Reduced Vertic A5 - Stratified Layers (LRR F) F6 - Redox Dark Surface F18 - Reduced Vertic A1 - Depleted Below Dark Surface F7 - Depleted Dark Surface TF2 - Red Parent Material A12 - Thick Dark Surface F7 - Depleted Dark Surface TF12 - Very Shallow Dark Surface A12 - Thick Dark Surface F8 - Redox Depressions Other (Explain in Remarks) S1 - Sandy Mucky Peat or Peat (LRR F) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary ption (Descri tration, D=Depl Hue_10YR Hue_10YR ic Soil Field A1- Histosol	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF	Moist)	erved.	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators 1 A9 - 1 cm M	luck (LRR I, J)	: Soils ¹
A5 - Stratified Layers (LRR F) F3 - Depleted Matrix F18 - Reduced Vertic A9 - 1 cm Muck (LRR FGH) F6 - Redox Dark Surface TF2 - Red Parent Material A11 - Depleted Below Dark Surface F7 - Depleted Dark Surface TF2 - Red Parent Material A12 - Thick Dark Surface F6 - Redox Depressions Other (Explain in Remarks) S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary ption (Descri tration, D=Depl Hue_10YR Hue_10YR Hue_10YR ic Soil Field	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF Color Color S Hue_10YF S - Sandy f S - Sandy f S - Stripped	(Moist) (Moist	erved. onfirm the tion: PL=Pe Mottle % 2 t):	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils ¹
A9 - 1 cm Muck (LRR FGH)' F6 - Redox Dark Surface TF2 - Red Parent Material A11 - Depleted Below Dark Surface F7 - Depleted Dark Surface TF12 - Very Shallow Dark Surface A12 - Thick Dark Surface F8 - Redox Depressions Other (Explain in Remarks) S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Other (Explain in Remarks) S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color 0 3 Hue_10YF 3 Hue_10YF 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Moist) (M	erved. onfirm the tion: PL=Pe Mottle % 2 2 t):	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si	luck (LRR I, J) Prairie Redox (urface (LRR G)	: <u>Soils1</u> LRR F, G, H)
A11 - Depleted Below Dark Surface F7 - Depleted Dark Surface TF12 - Very Shallow Dark Surface A12 - Thick Dark Surface F8 - Redox Depressions Other (Explain in Remarks) S1 - Sandy Mucky Peat or Peat (LRR G, H) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 4/2 Indicators (ch ipedon stic n Sulfide	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF S5 - Sandy P S5 - Sandy P S6 - Strippe F1 - Loamy F2 - Loamy	Moist) 3/6 A 3/6 A 3	erved. onfirm the tion: PL=Pe Mottle % 2 2 t):	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: <u>Soils1</u> LRR F, G, H)
S1 - Sandy Mucky Mineral F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) F16 - High Plains Depressions (MLRA 72, 73 of LRR H) S3 - 5 cm Mucky Peat or Peat (LRR F) 'Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr	No primary ption (Descri tration, D=Depi Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroge A5 - Stratified	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F)	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF B S5 - Sandy f S5 - Sandy f S6 - Strippe F1 - Loamy F3 - Deplete	icator or cc Grains; Loca (Moist) (Moi	erved.	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic	: <u>Soils1</u> LRR F, G, H)
S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) 'Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. S3 - 5 cm Mucky Peat or Peat (LRR F) 'Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr RCS Hydr	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF B Hue_10YF B S6 - Strippe S6 - Strippe F1 - Loamy F1 - Loamy F3 - Deplete F6 - Redox l F7 - Deplete	Content of the second sec	erved.	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F18 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S	2 Soils¹ LRR F, G, H) MS (LRR H, outside MLRA 72, 73)
S3 - 5 cm Mucky Peat or Peat (LRR F) ¹ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer Type: Depth: Hydric Soil Present? Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 10 10 10 10 10 10 10 10 10 10 10 10 10	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF B S5 - Sandy f S5 - Sandy f S5 - Sandy f S5 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F3 - Deplete F8 - Redox f	Moist) (Mois	erved.	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F18 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S	2 Soils¹ LRR F, G, H) MS (LRR H, outside MLRA 72, 73)
Gestrictive Layer Type: Depth: Y	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF B S5 - Sandy f S5 - Sandy f S5 - Sandy f S5 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F3 - Deplete F8 - Redox f	Moist) (Mois	erved.	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F18 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic Parent Material Shallow Dark S	2 Soils¹ LRR F, G, H) MS (LRR H, outside MLRA 72, 73)
	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr U U U U U U U U U U U U U	No primary ption (Descri- tration, D=Depl Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LI	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF B S5 - Sandy f S5 - Sandy f S5 - Sandy f S5 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F3 - Deplete F8 - Redox f	Moist) (Mois	erved.	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressic ced Vertic 'arent Material Shallow Dark S ain in Remarks)	: <u>Soils¹</u> LRR F, G, H) NNS (LRR H, outside MLRA 72, 73)
	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRF	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF B S5 - Sandy f S5 - Sandy f S5 - Sandy f S5 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F3 - Deplete F8 - Redox f	Moist) (Mois	erved.	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ced Vertic 'arent Material Shallow Dark S ain in Remarks)	: <u>Soils¹</u> LRR F, G, H) NNS (LRR H, outside MLRA 72, 73)
	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Depleter A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (LRF	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF S S S S S S S S S S S S S S S S S S S	Moist) (Mois	erved.	e absence of in ore Lining, M=Matr es Type C	Location M	SICL SL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ced Vertic 'arent Material Shallow Dark S ain in Remarks)	: <u>Soils¹</u> LRR F, G, H) NNS (LRR H, outside MLRA 72, 73)
Remarks: The soil is dry and compacted throughout the profile. Soil meets hydric indicator A12; however, the site lacks wetland hydrology and hydrophytic vegetation.	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depl Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S3 - 5 cm Mu S4 - Sandy G	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sufide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF leyed Matrix	eded to doc atrix, CS=Cove	erial photos, p land hydrolog ument the ind red/Coated Sand Color 0 3 Hue_10YF 3 Hue_10YF 5 3 Hue_10YF 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Image: constraint of the second state of the second sta	erved.	e absence of in ore Lining, M=Matr es Type C C	Location M	SICL SL Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla ¹ Indicators of h unless disturbe	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ced Vertic 'arent Material Shallow Dark S ain in Remarks)	: <u>Soils¹</u> LRR F, G, H) NNS (LRR H, outside MLRA 72, 73)
	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF leyed Matrix	eded to doc atoring well, a ators of well edited to doc atrix, CS=Cove % 10 90 90 90 90 90 90 90 90 90 90 90 90 90	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF B Hue_10YF Color B HUE Color B HUE COLOR COLOR B HU	icator or cc Grains; Loca (Moist) (Moi	erved.	e absence of in ore Lining, M=Matr es Type C C C RA 72, 73 of LRF Hydric So	Location M H)	SICL SL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla ¹ Indicators of f unless disturbe	Juck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic 'arent Material Shallow Dark S ain in Remarks) hydrophytic vegetat ed or problematic.	2 <u>Soils¹</u> LRR F, G, H) INS (LRR H, outside MLRA 72, 73) Surface
	Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-14 14-18 NRCS Hydr 0 0 0 0 0 0 0 0 0 0 0 0 0	No primary ption (Descri- tration, D=Depi Hue_10YR Hue_10YR Hue_10YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G	or secondary indic be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRF leyed Matrix	eded to doc atoring well, a ators of well edited to doc atrix, CS=Cove % 10 90 90 90 90 90 90 90 90 90 90 90 90 90	erial photos, p land hydrolog ument the ind red/Coated Sand Color B Hue_10YF B Hue_10YF B Hue_10YF Color B HUE Color B HUE COLOR COLOR B HU	icator or cc Grains; Loca (Moist) (Moi	erved.	e absence of in ore Lining, M=Matr es Type C C C RA 72, 73 of LRF Hydric So	Location M H)	SICL SL Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla ¹ Indicators of f unless disturbe	Juck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio ed Vertic 'arent Material Shallow Dark S ain in Remarks) hydrophytic vegetat ed or problematic.	2 <u>Soils¹</u> LRR F, G, H) INS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-151n42w15-s1
VEGETATION	N (Species identified in all uppercase an Plot size: 30 ft. radius)	e non-native	e species.)		
Thee Stratum (Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>/// 00/01</u>	Dominant	ind.oldido	
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)
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: <u>Multiply by:</u>
10.]				OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 0 x 2 = 0
					FAC spp. 15 x 3 = 45
	Stratum (Plot size: 15 ft. radius)				FACU spp. 85 x 4 = 340
1. 2.					UPL spp. 0 x 5 = 0
<u> </u>					
3. 4.					Total <u>100</u> (A) <u>385</u> (B)
4. 5.					Prevalence Index = B/A = 3.850
5. 6.	<u> </u>				
7.					
8.					Hydrophytic Vegetation Indicators:
9.	<u></u> _				Rapid Test for Hydrophytic Vegetation
10.	<u></u>				Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is $\leq 3.0^{*}$
		-			Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Fragaria virginiana	40	Y	FACU	, , , , , , , , , , , , , , , ,
2.	Poa pratensis	20	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Trifolium pratense	15	N	FACU	present, unless disturbed or problematic.
4.	Solidago gigantea	10	Ν	FAC	Definitions of Vegetation Strata:
5.	Prunella vulgaris	5	Ν	FAC	
6	Cirsium arvense	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Trifolium hybridum	5	N	FACU	height (DBH), regardless of height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					LL
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14. 15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cover =	100			Hoody Hinds - the start france, the galabase of hogh
		100	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	The vegetation is dominated by non-hydroph	ytic specie	es.		
Additional R	lemarks:				
-					