WETLAND DETERMINATION DATA FORM Great Plains Region

| Project/Site: | | L3R | | | | | | | | Date: | 09/18/14 | |
|--|---|--|--|--|--|--|--|-----------------|---|---|--|------|
| Applicant: | | | _ | | 0.1 | /B 41 🗅 1 | or LRR): MLRA 56 | | | County: | Marshall | |
| Investigators | | | | | _Subregio | • | A or LRR): | | State: | MN | | |
| Soil Unit: | | | | | | | I Classification: | PEIVIAD | | Comple Delet | u-155p/6w2-d1 | |
| Landform: Talf Local Relief: LL Sample Point: u-155n46w3-d1 Slope (%): 0 - 2% Latitude: 48.274283 Longitude: -96.551690 Datum: | | | | | | | | | | | | |
| . , , | | nditions on the site typica | | | | | | ✓ Yes | □ No | Section: | | |
| Are Vegetation | | | | | <u>ar: (ii iio, cx)</u> | 1 | e normal circun | | | Township: | | |
| Are Vegetation ☑ Soil ☑, or Hydrology □significantly disturbed? Are Vegetation □ Soil □, or Hydrology □aturally problematic? | | | | | | | □ Yes | ☑ No | 000111. | Range: | Dir: | |
| SUMMARY C | | | any prox | ororriodiro r | | | _ 100 | _ 110 | | rtariger | J | |
| Hydrophytic ' | | | No | | | | | Hydric Soi | ls Present? | No | | |
| Wetland Hydrology Present? | | | No | | | | Is This Sampling Poir | | | | etland? No | |
| Remarks: | An upland p | oint in a cultivated field p | lanted t | o soybeans | . The area | a may ha | ave been draine | ed by a near | by drainage | swale. The | vegetation is disturbed from | |
| | tillage and h | erbicide use. The soil is | disturbe | ed from tilla | ge. Thoug | h the po | int is within an <mark>f</mark> | NWI polygo | n, no indica | tors of wetlar | nd conditions are present. | |
| HYDROLOG | Υ | | | | | | | | | | | |
| Wetland Hy | drology Indi | icators (Check all that ap | ply; Mir | nimum of or | ne primary | or two s | econdary requi | red): | | | | |
| Primary: | _ | | _ | 544 6 1 | • | | | Secondary: | | | | |
| □ A1 - Surface Water □ A2 - High Water Table | | | | | B11 - Salt | | | | | B6 - Surface S | | |
| | A2 - Fiigh Wal | | | | B13 - Aqua C1 - Hydro | | | | | B10 - Sparsely | Vegetated Concave Surface | |
| | B1 - Water Ma | | | | C2 - Dry S | | | | | | Rhizospheres on Living Roots (tille | ∍d) |
| | B2 - Sedimen | t Deposits | | | C3 - Oxidiz | zed Rhizos | spheres on Living | Roots (not till | • 🗆 | C8 - Crayfish | Burrows | , |
| | B3 - Drift Dep | | | | | | educed Iron | | | | n Visible on Aerial Imagery | |
| | B4 - Algal Mat B5 - Iron Depo | | | | C7 - Thin N | | ace | | | D2 - Geomorp D5 - FAC-Neu | | |
| | | ก Visible on Aerial Imagery | | | Other (Exp | nairi) | | | | | aved Hummocks (LRR F) | |
| | B9 - Water-St | | | | | | | | _ | 27 11000110 | | |
| | | | | | | | | | | | | |
| Field Observ | vations: | | | | | | | | | | | |
| Surface Wat | er Present? | Yes | Depth: | | _ (in.) | | | Wotland L | lydrology l | Procent? | N | |
| Water Table | Present? | Yes | Depth: | | (in.) | | | wetiand r | iyarology i | riesent: | <u> </u> | |
| Saturation Present? Yes Depth: (in.) | | | | | | | | | | | | |
| | | 103 | | | _ ('''') | | | | | | | |
| Describe Rec | orded Data (s | stream gauge, monitoring v | | | <u> </u> | pections), | , if available: | | | | | |
| Describe Rec | · | | vell, aeri | al photos, pr | <u> </u> | pections), | , if available: | | | | | |
| | · | tream gauge, monitoring v | vell, aeri | al photos, pr | <u> </u> | pections), | , if available: | | | | | |
| Remarks: | No indicator | stream gauge, monitoring vers of wetland hydrology wetland hydrolo | vell, aeri | al photos, preerved. | evious insp | | | | | | | |
| Remarks: SOILS Profile Descri | No indicator | stream gauge, monitoring was of wetland hydrology was be to the depth needed to | vell, aeri | al photos, prerved. | evious insp | onfirm th | e absence of in | | | | | |
| Remarks: SOILS Profile Descri | No indicator | stream gauge, monitoring vers of wetland hydrology wetland hydrolo | vell, aeri | al photos, prerved. | evious insp | onfirm th | e absence of in | | | | | |
| Remarks: SOILS Profile Descri | No indicator | stream gauge, monitoring was of wetland hydrology was be to the depth needed to etion, RM=Reduced Matrix, CS: | vell, aeri | al photos, prerved. | evious insp | onfirm th | ne absence of in Pore Lining, M=Matr | | | | | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No indicator | stream gauge, monitoring vers of wetland hydrology webset to the depth needed to etion, RM=Reduced Matrix, CS: | vell, aeri vere obs o docum =Covered | al photos, prerved. nent the ind | revious inspired icator or co | onfirm th tion: PL=P Mottl | e absence of in Pore Lining, M=Matr | ix) | Texture | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No indicator | tream gauge, monitoring vers of wetland hydrology webset to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) | vell, aeri | al photos, prerved. | revious inspired icator or co | onfirm th | ne absence of in Pore Lining, M=Matr | | Texture | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No indicator | stream gauge, monitoring vers of wetland hydrology webset to the depth needed to etion, RM=Reduced Matrix, CS: | vell, aeri vere obs o docum =Covered | al photos, prerved. nent the ind | revious inspired icator or co | onfirm th tion: PL=P Mottl | e absence of in Pore Lining, M=Matr | ix) | Texture LFS | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No indicator | tream gauge, monitoring vers of wetland hydrology webset to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) | vell, aeri | al photos, prerved. nent the ind | revious inspired icator or co | onfirm th tion: PL=P Mottl | e absence of in Pore Lining, M=Matr | ix) | - | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No indicator | tream gauge, monitoring vers of wetland hydrology webset to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) | vell, aeri | al photos, prerved. nent the ind | revious inspired icator or co | onfirm th tion: PL=P Mottl | e absence of in Pore Lining, M=Matr | ix) | - | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No indicator | tream gauge, monitoring vers of wetland hydrology webset to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) | vell, aeri | al photos, prerved. nent the ind | revious inspired icator or co | onfirm th tion: PL=P Mottl | e absence of in Pore Lining, M=Matr | ix) | - | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer | No indicator | tream gauge, monitoring vers of wetland hydrology webset to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) | vell, aeri | al photos, prerved. nent the ind | revious inspired icator or co | onfirm th tion: PL=P Mottl | e absence of in Pore Lining, M=Matr | ix) | - | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 | No indicator iption (Descri | be to the depth needed to etion, RM=Reduced Matrix Color (Moist) 2/1 | vell, aericere obs | al photos, preerved. nent the ind //Coated Sand Color (| icator or co | onfirm th | e absence of in Pore Lining, M=Matr es Type | ix) | - | | Remarks | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 | No indicator | be to the depth needed to etion, RM=Reduced Matrix Color (Moist) 2/1 | vell, aericere obs | al photos, prerved. nent the ind | icator or co | onfirm th | e absence of in Pore Lining, M=Matr | ix) | LFS | or Problemati | _ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr | No indicator iption (Descri | be to the depth needed to etion, RM=Reduced Matrix Color (Moist) 2/1 | well, aericere observed o docum =Covered % 100 ere if ind | al photos, preved. nent the ind //Coated Sand Color (| icator or co Grains; Loca (Moist) | onfirm th | e absence of in Pore Lining, M=Matr es Type | Location | LFS Indicators f | or Problemati | ic Soils ¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 | No indicator iption (Descrintration, D=Depleted Price Soil Field A1- Histosol | be to the depth needed to the detion, RM=Reduced Matrix. Color (Moist) 2/1 Indicators (check he | well, aericere observed o docum =Covered % 100 ere if ind | al photos, preved. nent the ind //Coated Sand Color (| icator or congrains; Loca (Moist) not presented | onfirm th | e absence of in Pore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M | luck (LRR I, J) | ic Soils ¹ | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr | No indicator iption (Descri | be to the depth needed to etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (check he ipedon | well, aericere observed observ | al photos, preved. nent the ind //Coated Sand Color (| icator or co Grains; Loca (Moist) not presen | onfirm th tion: PL=P Mottl % | e absence of in Pore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si | luck (LRR I, J) Prairie Redox urface (LRR G) | i <mark>c Soils¹</mark> (LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger | be to the depth needed to etion, RM=Reduced Matrix Color (Moist) 2/1 Indicators (check he ipedon stice in Sulfide | well, aericere observed observ | al photos, preved. nent the ind /Coated Sand Color (icators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F | icator or co Grains; Loca (Moist) not presented Matrix Mucky Miner Gleyed Matri | onfirm the tion: PL=P Mottl % t): | e absence of in Pore Lining, M=Matr es 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 Depressi | ic Soils ¹ (LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified | stream gauge, monitoring was of wetland hydrology was be to the depth needed to etion, RM=Reduced Matrix, CS: Matrix Color (Moist) 2/1 Indicators (check he ipedon stic in Sulfide Layers (LRR F) | well, aericere observed observ | al photos, preved. nent the ind Coated Sand Color (icators are S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete | icator or congrains; Loca (Moist) Redox d Matrix Mucky Miner Gleyed Matrix d Matrix | mottl Mottl % al x | e absence of in Pore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce | luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic | i <mark>c Soils¹</mark> (LRR F, G, H) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue | be to the depth needed to etion, RM=Reduced Matrix. Color (Moist) 2/1 Indicators (check he ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) | well, aericere observed of documeration of doc | al photos, preved. nent the ind //Coated Sand Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F | icator or congrains; Loca (Moist) not present Matrix Mucky Miner Gleyed Matrix Dark Surface | onfirm the tion: PL=P Mottl % t): al x | e absence of in Pore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P | luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material | (LRR F, G, H)) ONS (LRR H, outside MLRA 72, 73) | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 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 needed to etion, RM=Reduced Matrix. Color (Moist) 2/1 Indicators (check he ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface | well, aericere observered observe | al photos, preved. The erved. The erved. | icator or congrains; Loca Moist) Redox Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Dark Surface d Dark Surface | onfirm the tion: PL=P Mottl % t): al x | e absence of in Pore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark | ic Soils ¹ (LRR F, G, H)) Ons (LRR H, outside MLRA 72, 73) Surface | |
| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr | Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue | be to the depth needed to etion, RM=Reduced Matrix. Color (Moist) 2/1 Indicators (check he ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface | well, aericere observed observ | al photos, preerved. Color (| revious inspections in cator or configurations; Local Moist) Redox Matrix Mucky Miner Gleyed Matrix Dark Surfaced | monfirm the tion: PL=P Mottl % t): al x ace | e absence of in Pore Lining, M=Matr es Type | Location | Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very | luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material | ic Soils ¹ (LRR F, G, H)) Ons (LRR H, outside MLRA 72, 73) Surface | |
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| Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 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 Mo S2 - 2.5 cm M S3 - 5 cm Muc | be to the depth needed to etion, RM=Reduced Matrix. Color (Moist) 2/1 Indicators (check he lipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR G, Ficky Peat or Peat (LRR F) | well, aericere observered o docum =Covered 100 re if ind | al photos, preerved. Color (| revious inspections in cator or configurations; Local Moist) Redox Matrix Mucky Miner Gleyed Matrix Dark Surfaced | monfirm the tion: PL=P Mottl % t): al x ace | es Type | Location | Indicators of A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain | luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark (ain in Remarks) | C Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface) | ent, |
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WETLAND DETERMINATION DATA FORM

Great Plains Region

| Project/Site: | L3R | | | Sample Point: u-155n46w3-d1 |
|------------------|---|------------------------------|-------------------------|---|
| | | | | • |
| VEGETATIO | | are non-native species | .) | |
| Tree Stratum (| Plot size: 30 ft. radius) | | | |
| | <u>Species Name</u> | <u>% Cover</u> <u>Domina</u> | ant Ind.Statu | Dominance Test Worksheet |
| 1. | | | | |
| 2. | | | | Number of Dominant Species that are OBL, FACW, or FAC:(A) |
| 3. | | | | |
| 4. | | | | Total Number of Dominant Species Across All Strata:1 (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: Multiply by: |
| 10. | | | | OBL spp. 0 x 1 = 0 |
| | Total Cover | = 0 | FACW spp. $0 	 x 2 = 0$ | |
| | | | | OBL spp. 0 |
| Sapling/Shrub S | Stratum (Plot size: 15 ft. radius) | | | FACU spp. $0 	 x 	 4 = 0$ |
| 1. | | | | UPL spp. 100 $x 5 = 500$ |
| 2. | | | | |
| 3. | | | | Total 100 (A) 500 (B) |
| 4. | | | | |
| 5. | | | | Prevalence Index = B/A = 5.000 |
| 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 (| Plot size: 5 ft. radius) | | | Problem Hydrophytic Vegetation (Explain) * |
| 1. | Glycine max | 100 Y | ′ NI | |
| 2. | | | | * Indicators of hydric soil and wetland hydrology must be |
| 3. | | | | present, unless disturbed or problematic. |
| 4. | | | | 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. | | | | 7 |
| 11. | | | | |
| 12. | | | | Herb - All herbaceous (non-woody) plants, regardless of size. |
| 13. | | | | ╡ |
| 14. | | | | ╡ |
| 15. | | | | Woody Vines - All woody vines, regardless of height. |
| 10. | Total Cover | = 100 | | |
| | Total Cover | | | |
| Woody Vino St | ratum (Plot size: 30 ft. radius) | | | |
| 1 | Tatum (Flot Size. 30 ft. radius) | | | |
| 2. | | _ | | |
| 3. | | | | Hydrophytic Vogotation Procent? |
| 5. | | | | Hydrophytic Vegetation Present? N |
| | | | | |
| 4. | Total Cover | = 0 | | |
| Pomorko: | The upland is dominated by healthy soybe | | | |
| Remarks: | The upland is dominated by fleating soybe | ans. | | |
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| Additional R | Remarks: | | | |
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